>DM_train26
GLVPRGSHMMEILRGSPALSAFRINKLLARFQAANLQVHNIYAEYVHFADLNAPLNDSEQAQLTRLL
QYGPALSSHTPAGKLLLVTPRPGTISPWSSKATDIAHNCGLQQVDRLERGVAYYIEASTLTAEQWRQV
AAELHDRMMETVFSSLTDAEKLFIHHQPAPVSSVDLLGEGRQALIDANLRLGLALAEDEIDYLQEAF
TKLGRNPNDIELYMFAQANSEHCRHKIFNADWIIDGKPQPKSLFKMIKNTFETTPDYVLSAYKDNAA
VMEGSAVGRYFADHNTGRYDFHQEPAHILMKVETHNHPTAISPWPGAATGSGGEIRDEGATGRGAK
PKAGLVGFSVSNLRIPGFEQPWEEDFGKPERIVTALDIMTEGPLGGAAFNNEFGRPALTGYFRTYEEK
VNSHNGEELRGYHKPIMLAGGIGNIRADHVQKGEIVVGAKLIVLGGPAMNIGLGGGAASSMASGQSD
ADLDFASVQRDNPEMERRCQEVIDRCWQLGDANPILFIHDVGAGGLSNAMPELVSDGGRGGKFELR
DILSDEPGMSPLEIWCNESQERYVLAVAADQLPLFDELCKRERAPYAVIGDATEEQHLSLHDNHFDN
QPIDLPLDVLLGKTPKMTRDVQTLKAKGDALNRADITIADAVKRVLHLPTVAEKTFLVTIGDRTVTG
MVARDQMVGPWQVPVADCAVTTASLDSYYGEAMSIGERAPVALLDFAASARLAVGEALTNIAATQIG
DIKRIKLSANWMAAAGHPGEDAGLYDAVKAVGEELCPQLGLTIPVGKDSMSMKTRWQEGNEQREM
TSPLSLVISAFARVEDVRHTLTPQLSTEDNALLLIDLGKGHNALGATALAQVYRQLGDKPADVRDVAQ
LKGFYDAMQALVAARKLLAWHDRSDGGLLVTLAEMAFAGHCGVQVDIAALGDDHLAALFNEELGG
VIQVRAEDRDAVEALLAQYGLADCVHYLGQALAGDRFVITANDQTVFSESRTTLRVWWAETTWQM
QRLRDNPQCADQEHEAKANDTDPGLNVKLSFDINEDIAAPYIATGARPKVAVLREQGVNSHVEMAA
AFHRAGFDAIDVHMSDLLGGRIGLGNFHALVACGGFSYGDVLGAGEGWAKSILFNHRVRDEFETFFH
RPQTLALGVCNGCQMMSNLRELIPGSELWPRFVRNHSDRFEARFSLVEVTQSPSLLLQGMVGSQMP
IAVSHGEGRVEVRDDAHLAALESKGLVALRYVDNFGKVTETYPANPNGSPNGITAVTTENGRVTIMM
PHPERVFRTVANSWHPENWGEDSPWMRIFRNARKQLG
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111111111111111110000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>DM_train27
MANVWGVRLADSLSSPTIETRTRQYTLHDLCSDLDANPGREPWKPLRNQRTNNIVAVQLFRPLQGL
VLDTQLYGFPGAFDDWERFMREKLRVLKYEVLRIYPISNYSNEHVNVFVANALVGAFLSNQAFYDLL
PLLIINDTMIGDLLGTGASLSQFFQSHGDVLEVAAGRKYLQMENYSNDDDDPPLFAKDLSDYAKAFY

SDTYEVLDRFFWTHDSSAGVLVHYDKPTNGHHYLLGTLTQMVSAPPYIINATDAMLLESCLEQFSAN
VRARPAQPVTRLDQCYHLRWGAQYVGEDSLTYRLGVLSLLATNGYQLARPIPRQLTNRWLSSFVSQI
MSDGVNETPLWPQERYVQIAYDSPSVVDGATQYGYVRKNQLRLGMRISALQSLSDTPSPVQWLPQY
TIDQAAMDEGDLMVSRLTQLPLRPDYGNIWVGDALSYYVDYNRSHRVVLSSELPQLPDTYFDGDEQ
YGRSLFSLARKIGDRSLVKDTAVLKHAYQAIDPNTGKEYLRSRQSVAYFGASAGHSGADQPLVIEPWIQ
GKISGVPPPSSVRQFGYDVARGAIVDLARPFPSGDYQFVYSDVDQVVDGHDDLSISSGLVESLLSSCMH
ATAPGGSFVVKINFPTRPVWHYIEQKILPNITSYMLIKPFVTNNVELFFVAFGVHQHSSLTWTSGVYF
FLVDHFYRYETLSTISRQLPSFGYVDDGSSVTGIETISIENPGFSNMTQAARIGISGLCANVGNARKSIAI
YESHGARVLTITSRRSPASARRKSRLRYLPLIDPRSLEVQARTILPADPVLFENVSGASPHVCLTMMYN
FEVSSAVYDGDVVLDLGTGPEAKILELIPATSPVTCVDIRPTAQPSGCWNVRTTFLELDYLSDGWITG
VRGDIVTCMLSLGAAAAGKSMTFDAAFQQLIKVLSKSTANVVLVQVNCPTDVVRSIKGYLEIDSTNKR
YRFPKFGRDEPYSDMDALEKICRTAWPNCSITWVPLSYDLRWTRLALLESTTLSSASIRIAELMYKY
MPIMRIDIHGLPMEKRGNFIVGQNCSLVIPGFNAQDVFNCYFNSALAFSTEDVNAAMIPQVSAQFDA
TKGEWTLDMVFSDAGIYTMQALVGSNANPVSLGSFVVDSPDVDITDAWPAQLDFTIAGTDVDITVN
PYYRLMTFVRIDGQWQIANPDKFQFFSSASGTLVMNVKLDIADKYLLYYIRDVQSRDVGFYIQHPLQ
LLNTITLPTNEDLFLSAPDMREWAVKESGNTICILNSQGFVLPQDWDVLTDTISWSPSIPTYIVPPGD
YTLTPL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011110000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train29
MSSMILTQFGPFIESISGITDQSNDVFEDAAKAFSMFTRSDVYKALDEIPFSDDAMLPIPPTIYTKPSH
DSYYYIDALNRVRRKTYQGPDDVYVPNCSIVELLEPHETLTSYGRLSEAIENRAKDGDSQARIATTYG
RIAESQARQIKAPLEKFVLALLVAEAGGSLYDPVLQKYDEIPDLSHNCPLWCFREICRHISGPLPDRAP
YLYLSAGVFWLMSPRMTSAIPPLLSDLVNLAILQQTAGLDPSLVKLGVQICLHAAASSSYSWFILKTKS
IFPQNTLHSMYESLEGGYCPNLEWLEPRSDYKFMYMGVMPLSAKYARSAPSNDKKARELGEKYGLS
SVVGELRKRTKTYVKHDFASVRYIRDAMACTSGIFLVRTPTETVLQEYTQSPEIKVPIPQKDWTGPIG
EIRILKDTTSSIARYLYRTWYLAAARMAAQPRTWDPLFQAIMRSQYVTARGGSGAALRESLYAINVSL

PDFKGLPVKAATKIFQAAQLANLPFSHTSVAILADTSMGLRNQVQRRPRSIMPLNVPQQQVSAPHTL
TADYINYHMNLSPTSGSAVIEKVIPLGVYASSPPNQSINIDISACDASITWDFFLSVIMAAIHEGVASSSI
GKPFMGVPASIVNDESVVGVRAARPISGMQNMIQHLSKLYKRGFSYRVNDSFSPGNDFTHMTTTFPS
GSTATSTEHTANNSTMMETFLTVWGPEHTDDPDVLRLMKSLTIQRNYVCQGDDGLMIIDGTTAGKV
NSETIQNDLELISKYGEEFGWKYDIAYDGTAEYLKLYFIFGCRIPNLSRHPIVGKERANSSAEEPWPAI
LDQIMGVFFNGVHDGLQWQRWIRYSWALCCAFSRQRTMIGESVGYLQYPMWSFVYWGLPLVKAFG
SDPWIFSWYMPTGDLGMYSWISLIRPLMTRWMVANGYVTDRCSTVFGNADYRRCFNELKLYQGYY
MAQLPRNPKKSGRAASREVREQFTQALSDYLMQNPELKSRVLRGRSEWEKYGAGIIHNPPSLFDVP
HKWYQGAQEAAIATREELAEMDETLMRARRHSYSSFSKLLEAYLLVKWRMCEAREPSVDLRLPLCA
GIDPLNSDPFLKMVSVGPMLQSTRKYFAQTLFMAKTVSGLDVNAIDSALLRLRTLGADKKALTAQLL
MVGLQESEADALAGKIMLQDVNTVQLARVVNLAVPDTWMSLDFDSMFKHHVKLLPKDGRHLNTD
IPPRMGWLRAILRFLGAGMVMTATGVAVDIYLEDIHGGGRSLGQRFMTWMRQEGRSA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train31
ESTVTEELKEGIDAVYPSLVGTADSKAEGIKNYFKLSFTLPEEQKSRTVGSEAPLKDVAQALSSRARYE
LFTEKETANPAFNGEVIKRYKELMEHGEGIADILRSRLAKFLNTKDVGKRFAQGTEANRWVGGKLL
NIVEQDGDTFKYNEQLLQTAVLAGLQWRLTATSNTAIKDAKDVAAITGIDQALLPEGLVEQFDTGMT
LTEAVSSLAQKIESYWGLSRNPNAPLGYTKGIPTAMAAEILAAFVESTDVVENIVDMSEIDPDNKKTI
GLYTITELDSFDPINSFPTAIEEAVLVNPTEKMFFGDDIPPVANTQLRNPAVRNTPEQKAALKAEQAT
EFYVHTPMVQFYETLGKDRILELMGAGTLNKELLNDNHAKSLEGKNRSVEDSYNQLFSVIEQVRAQ
SEDISTVPIHYAYNMTRVGRMQMLGKYNPQSAKLVREAILPTKATLDLSNQNNEDFSAFQLGLAQAL
DIKVHTMTREVMSDELTKLLEGNLKPAIDMMVEFNTTGSLPENAVDVLNTALGDRKSFVALMALM
EYSRYLVAEDKSAFVTPLYVEADGVTNGPINAMMLMTGGLFTPDWIRNIAKGGLFIGSPNKTMNEH
RSTADNNDLYQASTNALMESLGKLRSNYASNMPIQSQIDSLLSLMDLFLPDINLGENGALELKRGIAK
NPLTITIYGSGARGIAGKLVSSVTDAIYERMSDVLKARAKDPNISAAMAMFGKQAASEAHAEELLARF
LKDMETLTSTVPVKRKGVLELQSTGTGAKGKINPKTYTIKGEQLKALQENMLHFFVEPLRNGITQTV
GESLVYSTEQLQKATQIQSVVLEDMFKQRVQEKLAEKAKDPTWKKGDFLTQKELNDIQASLNNLAP

MIETGSQTFYIAGSENAEVANQVLATNLDDRMRVPMSIYAPAQAGVAGIPFMTIGTGDGMMMQTLS
TMKGAPKNTLKIFDGMNIGLNDITDASRKANEAVYTSWQGNPIKNVYESYAKFMKNVDFSKLSPEA
LEAIGKSALEYDQRENATVDDIANAASLIERNLRNIALGVDIRHKVLDKVNLSIDQMAAVGAPYQNN
GKIDLSNMTPEQQADELNKLFREELEARKQKVAKA
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011
>DM_train33
MPNFFIDRPIFAWVIAIIIMLAGGLAILKLPVAQYPTIAPPAVTISASYPGADAKTVQDTVTQVIEQNM
NGIDNLMYMSSNSDSTGTVQITLTFESGTDADIAQVQVQNKLQLAMPLLPQEVQQQGVSVEKSSSSF
LMVVGVINTDGTMTQEDISDYVAANMKDAISRTSGVGDVQLFGSQYAMRIWMNPNELNKFQLTPV
DVITAIKAQNAQVAAGQLGGTPPVKGQQLNASIIAQTRLTSTEEFGKILLKVNQDGSRVLLRDVAKIEL
GGENYDIIAEFNGQPASGLGIKLATGANALDTAAAIRAELAKMEPFFPSGLKIVYPYDTTPFVKISIHE
VVKTLVEAIILVFLVMYLFLQNFRATLIPTIAVPVVLLGTFAVLAAFGFSINTLTMFGMVLAIGLLVDDA
IVVVENVERVMAEEGLPPKEATRKSMGQIQGALVGIAMVLSAVFVPMAFFGGSTGAIYRQFSITIVSA
MALSVLVALILTPALCATMLKPIAKGDHGEGKKGFFGWFNRMFEKSTHHYTDSVGGILRSTGRYLVLY
LIIVVGMAYLFVRLPSSFLPDEDQGVFMTMVQLPAGATQERTQKVLNEVTHYYLTKEKNNVESVFAV
NGFGFAGRGQNTGIAFVSLKDWADRPGEENKVEAITMRATRAFSQIKDAMVFAFNLPAIVELGTATG
FDFELIDQAGLGHEKLTQARNQLLAEAAKHPDMLTSVRPNGLEDTPQFKIDIDQEKAQALGVSINDI
NTTLGAAWGGSYVNDFIDRGRVKKVYVMSEAKYRMLPDDIGDWYVRAADGQMVPFSAFSSSRWE
YGSPRLERYNGLPSMEILGQAAPGKSTGEAMELMEQLASKLPTGVGYDWTGMSYQERLSGNQAPSL
YAISLIVVFLCLAALYESWSIPFSVMLVVPLGVIGALLAATFRGLTNDVYFQVGLLTTIGLSAKNAILIVE
FAKDLMDKEGKGLIEATLDAVRMRLRPILMTSLAFILGVMPLVISTGAGSGAQNAVGTGVMGGMVTA
TVLAIFFVPVFFVVVRRRFSRKNEDIEHSHTVDHHHHHH
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

011111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000011111111111111111
>DM_train34
DDPIRPPLKVARSPRPGQCQDVVQDVPNVDVQMLELYDRMSFKDIDGGVWKQGWNIKYDPLKYNA
HHKLKVFVVPHSHNDPGWIQTFEEYYQHDTKHILSNALRHLHDNPEMKFIWAEISYFARFYHDLGE
NKKLQMKSIVKNGQLEFVTGGWVMPDEANSHWRNVLLQLTEGQTWLKQFMNVTPTASWAIAPFG
HSPTMPYILQKSGFKNMLIQRTHYSVKKELAQQRQLEFLWRQIWDNKGDTALFTHMMPFYSYDIP
HTCGPDPKVCCQFDFKRMGSFGLSCPWKVPPRTISDQNVAARSDLLVDQWKKKAELYRTNVLLIPL
GDDFRFKQNTEWDVQRVNYERLFEHINSQAHFNVQAQFGTLQEYFDAVHQAERAGQAEFPTLSGD
FFTYADRSDNYWSGYYTSRPYHKRMDRVLMHYVRAAEMLSAWHSWDGMARIEERLEQARRELSL
FQHHDGITGTAKTHVVVDYEQRMQEALKACQMVMQQSVYRLLTKPSIYSPDFSFSYFTLDDSRWPG
SGVEDSRTTIILGEDILPSKHVVMHNTLPHWREQLVDFYVSSPFVSVTDLANNPVEAQVSPVWSWH
HDTLTKTIHPQGSTTKYRIIFKARVPPMGLATYVLTISDSKPEHTSYASNLLLRKNPTSLPLGQYPEDV
KFGDPREISLRVGNGPTLAFSEQGLLKSIQLTQDSPHVPVHFKFLKYGVRSHGDRSGAYLFLPNGPAS
PVELGQPVVLVTKGKLESSVSVGLPSVVHQTIMRGGAPEIRNLVDIGSLDNTEIVMRLETHIDSGDIFY
TDLNGLQFIKRRRLDKLPLQANYYPIPSGMFIEDANTRLTLLTGQPLGGSSLASGELEIMQDRRLASD
DERGLGQGVLDNKPVLHIYRLVLEKVNNCVRPSKLHPAGYLTSAAHKASQSLLDPLDKFIFAENEWI
GAQGQFGGDHPSAREDLDVSVMRRLTKSSAKTQRVGYVLHRTNLMQCGTPEEHTQKLDVCHLLPN
VARCERTTLTFLQNLEHLDGMVAPEVCPMETAAYVSSHSS
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train35
ALVRDDVDYQIFRDFAENKGRFSVGATNVEVRDKNNHSLGNVLPNGIPMIDFSVVDVDKRIATLINP
QYVVGVKHVSNGVSELHFGNLNGNMNNGNAKSHRDVSSEENRYFSVEKNEYPTKLNGKAVTTEDQ
TQKRREDYYMPRLDKFVTEVAPIEASTASSDAGTYNDQNKYPAFVRLGSGSQFIYKKGDNYSLILNN

HEVGGNNLKLVGDAYTYGIAGTPYKVNHENNGLIGFGNSKEEHSDPKGILSQDPLTNYAVLGDSGSPL
FVYDREKGKWLFLGSYDFWAGYNKKSWQEWNIYKPEFAKTVLDKDTAGSLTGSNTQYNWNPTGK
TSVISNGSESLNVDLFDSSQDTDSKKNNHGKSVTLRGSGTLTLNNNIDQGAGGLFFEGDYEVKGTSDS
TTWKGAGVSVADGKTVTWKVHNPKSDRLAKIGKGTLIVEGKGENKGSLKVGDGTVILKQQADANN
KVKAFSQVGIVSGRSTVVLNDDKQVDPNSIYFGFRGGRLDANGNNLTFEHIRNIDDGARLVNHNTSK
TSTVTITGESLITDPNTITPYNIDAPDEDNPYAFRRIKDGGQLYLNLENYTYYALRKGASTRSELPKNS
GESNENWLYMGKTSDEAKRNVMNHINNERMNGFNGYFGEEEGKNNGNLNVTFKGKSEQNRFLLT
GGTNLNGDLKVEKGTLFLSGRPTPHARDIAGISSTKKDQHFAENNEVVVEDDWINRNFKATNINVT
NNATLYSGRNVANITSNITASDNAKVHIGYKAGDTVCVRSDYTGYVTCTTDKLSDKALNSFNATNVS
GNVNLSGNANFVLGKANLFGTISGTGNSQVRLTENSHWHLTGDSNVNQLNLDKGHIHLNAQNDAN
KVTTYNTLTVNSLSGNGSFYYLTDLSNKQGDKVVVTKSATGNFTLQVADKTGEPTKNELTLFDASNA
TRNNLNVSLVGNTVDLGAWKYKLRNVNGRYDLYNPEVEKRNQTVDTTNITTPHHHHHHVP
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001110000000000000000000011111111111111111111111111
>DM_train39
MSDLETVAKFLAESVIASTAKTSERNLRQLETQDGFGLTLLHVIASTNLPLSTRLAGALFFKNFIKRK
WVDENGNHLLPANNVELIKKEIVPLMISLPNNLQVQIGEAISSIADSDFPDRWPTLLSDLASRLSNDD
MVTNKGVLTVAHSIFKRWRPLFRSDELFLEIKLVLDVFTAPFLNLLKTVDEQITANENNKASLNILFD
VLLVLIKLYYDFNCQDIPEFFEDNIQVGMGIFHKYLSYSNPLLEDPDETEHASVLIKVKSSIQELVQLYT
TRYEDVFGPMINEFIQITWNLLTSISNQPKYDILVSKSLSFLTAVTRIPKYFEIFNNESAMNNITEQIILP
NVTLREEDVELFEDDPIEYIRRDLEGSDTDTRRRACTDFLKELKEKNEVLVTNIFLAHMKGFVDQY
MSDPSKNWKFKDLYIYLFTALAINGNITNAGVSSTNNLLNVVDFFTKEIAPDLTSNNIPHIILRVDAIK
YIYTFRNQLTKAQLIELMPILATFLQTDEYVVYTYAAITIEKILTIRESNTSPAFIFHKEDISNSTEILLKN
LIALILKHGSSPEKLAENEFLMRSIFRVLQTSEDSIQPLFPQLLAQFIEIVTIMAKNPSNPRFTHYTFES
IGAILNYTQRQNLPLLVDSMMPTFLTVFSEDIQEFIPYVFQIIAFVVEQSATIPESIKPLAQPLLAPNVW
ELKGNIPAVTRLLKSFIKTDSSIFPDLVPVLGIFQRLIASKAYEVHGFDLLEHIMLLIDMNRLRPYIKQIA
VLLLQRLQNSKTERYVKKLTVFFGLISNKLGSDFLIHFIDEVQDGLFQQIWGNFIITTLPTIGNLLDRKI
ALIGVLNMVINGQFFQSKYPTLISSTMNSIIETASSQSIANLKNDYVDLDNLEEISTFGSHFSKLVSISEK
PFDPLPEIDVNNGVRLYVAEALNKYNAISGNTFLNTILPQLTQENQVKLNQLLVGN
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000011111100000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011110000000000000000000000000000000000000011110000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011111000000000000000000000000000000
00000000000000000000000000000001
>DM_train40
ATPSMMPQWSYMHISGQDASEYLSPGLVQFARATETYFSLNNKFRNPTVAPTHDVTTDRSQRLTLR
FIPVDREDTAYSYKARFTLAVGDNRVLDMASTYFDIRGVLDRGPTFKPYSGTAYNALAPKGAPNPCE
WDEAATALEINLEEEDDDNEDEVDEQAEQQKTHVFGQAPYSGINITKEGIQIGVEGQTPKYADKTFQ
PEPQIGESQWYETEINHAAGRVLKKTTPMKPCYGSYAKPTNENGGQGILVKQQNGKLESQVEMQFF
STTEATAGNGDNLTPKVVLYSEDVDIETPDTHISYMPTIKEGNSRELMGQQSMPNRPNYIAFRDNFI
GLMYYNSTGNMGVLAGQASQLNAVVDLQDRNTELSYQLLLDSIGDRTRYFSMWNQAVDSYDPDVRI
IENHGTEDELPNYCFPLGGVINTETLTKVKPKTGQENGWEKDATEFSDKNEIRVGNNFAMEINLNA
NLWRNFLYSNIALYLPDKLKYSPSNVKISDNPNTYDYMNKRVVAPGLVDCYINLGARWSLDYMDNV
NPFNHHRNAGLRYRSMLLGNGRYVPFHIQVPQKFFAIKNLLLLPGSYTYEWNFRKDVNMVLQSSLG
NDLRVDGASIKFDSICLYATFFPMAHNTASTLEAMLRNDTNDQSFNDYLSAANMLYPIPANATNVPIS
IPSRNWAAFRGWAFTRLKTKETPSLGSGYDPYYTYSGSIPYLDGTFYLNHTFKKVAITFDSSVSWPG
NDRLLTPNEFEIKRSVDGEGYNVAQCNMTKDWFLVQMLANYNIGYQGFYIPESYKDRMYSFFRNFQ
PMSRQVVDDTKYKDYQQVGILHQHNNSGFVGYLAPTMREGQAYPANFPYPLIGKTAVDSITQKKFLC
DRTLWRIPFSSNFMSMGALTDLGQNLLYANSAHALDMTFEVDPMDEPTLLYVLFEVFDVVRVHRPH
RGVIETVYLRTPFSAGNATT
111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000001111111
111111111111111111111100000000000000000000011111100000000000000000000
000000000000000000000000000000000000011111110000000000011111110000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000011111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111
>DM_train43
MVAKKWVYYFGGGNADGNKNMKELLGGKGANLAEMVNLGIPVPPGFTITTEACKTYQETETIPQE
VADQVRENVSRVEKEMGAKFGDPANPLLFSVRSGAAASMPGMMDTVLNLGLNKVTVDAWVRRAP

RLERFVYDSYRRFITMYADIVMQVGREDFEEALSRMKERRGTKFDTDLTASDLKELCDGYLELFELK
TGCSFPQDPVMQLFAAIKAVFRSWGNPRATIYRRMNNITGLLGTAVNVQAMVFGNINDRSATGVAFS
RSPSTGENFFFGEYLVNAQGEDVVAGIRTPQQINHSLSLRWAKAHGVGEEERRKRYPSMEEAMPEN
YRLLCDVRKRLENHYRDMQDLEFTVQDGRLWLLQCRNGKRTIHAAVRIAIDMVNEGLISREEAVLR
IDPYQVDHLMHPNLEPGAEKANKPIGRGLAASPGAAVGQVVFDAESAKEWSGRGKKVIMVRLETSP
EDLAGMDAACGILTARGGMTSHAAVVARGMGKCCVSGCGDMVIRGKSFKLNGSVFREGDYITIDGSK
GLIYAGKLKLRSPDLKGSFQTILQWCQEMKRLGVRTNADTPADAAKARSFGAEGVGLCRTEHMFFE
GSRINFIREMILADSASGRKAALDKLLPIQRADFVGILRAMRGLPVTIRLLDPPLHEFVPHDAAAQFE
LAQKLGMPAEKVRNRVNALHELNPMLGHRGCRLGITYPEIYNMQVRAIIEAAIAVSEEGSSVIPEIMV
PLVGKKEELSLIREEVVKTAEAVITKSGKRVHYTVGTMIEVPRAAVTADSIAQKADFFSFGTNDLTQM
GCGFSRDDAGPFLRHYGNLGIYAQDPFQSIDQEGIGELVRIAVTKGRRVKPMLKMGICGEHGGDPATI
GFCHKVGLDYVSCSPFRVPVAIVAAAHASIKDRRAAMKARKGFAAKL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000011111000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111111
>DM_train45
MVIASVEDGGDGDTSKDDWLWYKQPASQTDATATAGGNYGNPDNNRWQQTTLPFGNGKIGGTVW
GEVSRERVTFNEETLWTGGPGSSTSYNGGNNETKGQNGATLRALNKQLANGAETVNPGNLTGGEN
AAEQGNYLNWGDIYLDYGFNDTTVTEYRRDLNLSKGKADVTFKHDGVTYTREYFASNPDNVMVAR
LTASKAGKLNFNVSMPTNTNYSKTGETTTVKGDTLTVKGALGNNGLLYNSQIKVVLDNGEGTLSEGS
DGASLKVSDAKAVTLYIAAATDYKQKYPSYRTGETAAEVNTRVAKVVQDAANKGYTAVKKAHIDDHS
AIYDRVKIDLGQSGHSSDGAVATDALLKAYQRGSATTAQKRELETLVYKYGRYLTIGSSRENSQLPSNL
QGIWSVTAGDNAHGNTPWGSDFHMNVNLQMNYWPTYSANMGELAEPLIEYVEGLVKPGRVTAKV
YAGAETTNPETTPIGEGEGYMAHTENTAYGWTAPGQSFSWGWSPAAVPWILQNVYEAYEYSGDPAL
LDRVYALLKEESHFYVNYMLHKAGSSSGDRLTTGVAYSPEQGPLGTDGNTYESSLVWQMLNDAIEAA
KAKGDPDGLVGNTTDCSADNWAKNDSGNFTDANANRSWSCAKSLLKPIEVGDSGQIKEWYFEGAL
GKKKDGSTISGYQADNQHRHMSHLLGLFPGDLITIDNSEYMDAAKTSLRYRCFKGNVLQSNTGWAI
GQRINSWARTGDGNTTYQLVELQLKNAMYANLFDYHAPFQIDGNFGNTSGVDEMLLQSNSTFTDTA
GKKYVNYTNILPALPDAWAGGSVSGLVARGNFTVGTTWKNGKATEVRLTSNKGKQAAVKITAGGAQ
NYEVKNGDTAVNAKVVTNADGASLLVFDTTAGTTYTITKKAS
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011100000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000111100000000000000000000000000011
>DM_train47
MTQQPQAKYRHDYRAPDYQITDIDLTFDLDAQKTVVTAVSQAVRHGASDAPLRLNGEDLKLVSVHIN
DEPWTAWKEEEGALVISNLPERFTLKIINEISPAANTALEGLYQSGDALCTQCEAEGFRHITYYLDRP
DVLARFTTKIIADKIKYPFLLSNGNRVAQGELENGRHWVQWQDPFPKPCYLFALVAGDFDVLRDTFT
TRSGREVALELYVDRGNLDRAPWAMTSLKNSMKWDEERFGLEYDLDIYMIVAVDFFNMGAMENK
GLNIFNSKYVLARTDTATDKDYLDIERVIGHEYFHNWTGNRVTCRDWFQLSLKEGLTVFRDQEFSSD
LGSRAVNRINNVRTMRGLQFAEDASPMAHPIRPDMVIEMNNFYTLTVYEKGAEVIRMIHTLLGEEN
FQKGMQLYFERHDGSAATCDDFVQAMEDASNVDLSHFRRWYSQSGTPIVTVKDDYNPETEQYTLTI
SQRTPATPDQAEKQPLHIPFAIELYDNEGKVIPLQKGGHPVNSVLNVTQAEQTFVFDNVYFQPVPALL
CEFSAPVKLEYKWSDQQLTFLMRHARNDFSRWDAAQSLLATYIKLNVARHQQGQPLSLPVHVADA
FRAVLLDEKIDPALAAEILTLPSVNEMAELFDIIDPIAIAEVREALTRTLATELADELLAIYNANYQSEY
RVEHEDIAKRTLRNACLRFLAFGETHLADVLVSKQFHEANNMTDALAALSAAVAAQLPCRDALMQE
YDDKWHQNGLVMDKWFILQATSPAANVLETVRGLLQHRSFTMSNPNRIRSLIGAFAGSNPAAFHAE
DGSGYLFLVEMLTDLNSRNPQVASRLIEPLIRLKRYDAKRQEKMRAALEQLKGLENLSGDLYEKITKA
LA
11110000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>DM_train48
SAECPVVNELERINCIPDQPPTKATCDQRGCCWNPQGAVSVPWCYYSKNHSYHVEGNLVNTNAGFT
ARLKNLPSSPVFGSNVDNVLLTAEYQTSNRFHFKLTDQTNNRFEVPHEHVQSFSGNAAASLTYQVEI
SRQPFSIKVTRRSNNRVLFDSSIGPLLFADQFLQLSTRLPSTNVYGLGEHVHQQYRHDMNWKTWPIF
NRDTTPNGNGTNLYGAQTFFLCLEDASGLSFGVFLMNSNAMEVVLQPAPAITYRTIGGILDFYVFLGN
TPEQVVQEYLELIGRPALPSYWALGFHLSRYEYGTLDNMREVVERNRAAQLPYDVQHADIDYMDER
RDFTYDSVDFKGFPEFVNELHNNGQKLVIIVDPAISNNSSSSKPYGPYDRGSDMKIWVNSSDGVTPLI

GEVWPGQTVFPDYTNPNCAVWWTKEFELFHNQVEFDGIWIDMNEVSNFVDGSVSGCSTNNLNNP
PFTPRILDGYLFCKTLCMDAVQHWGKQYDIHNLYGYSMAVATAEAAKTVFPNKRSFILTRSTFAGSGK
FAAHWLGDNTATWDDLRWSIPGVLEFNLFGIPMVGPDICGFALDTPEELCRRWMQLGAFYPFSRN
HNGQGYKDQDPASFGADSLLLNSSRHYLNIRYTLLPYLYTLFFRAHSRGDTVARPLLHEFYEDNSTW
DVHQQFLWGPGLLITPVLDEGAEKVMAYVPDAVWYDYETGSQVRWRKQKVEMELPGDKIGLHLRG
GYIFPTQQPNTTTLASRKNPLGLIIALDENKEAKGELFWDDGETKDTVANKVYLLCEFSVTQNRLEV
NISQSTYKDPNNLAFNEIKILGTEEPSNVTVKHNGVPSQTSPTVTYDSNLKVAIITDIDLLLGEAYTVE
W
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001000000000000000
0000000000000000
>DM_train50
MAKPLTDQEKRRQISIRGIVGVENVAELKKSFNRHLHFTLVKDRNVATTRDYYFALAHTVRDHLVGR
WIRTQQHYYDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDIEELEEIEEDAGLGN
GGLGRLAACFLDSMATLGLAAYGYGIRYEYGIFNQKIRDGWQVEEADDWLRYGNPWEKSRPEFMLP
VHFYGKVEHTNTGTKWIDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLRDFNVGDYI
QAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKASKFGSTRGAGTVFDAFPD
QVAIQLNDTHPALAIPELMRIFVDIEKLPWSKAWELTQKTFAYTNHTVLPEALERWPVDLVEKLLPR
HLEIIYEINQKHLDRIVALFPKDVDRLRRMSLIEEEGSKRINMAHLCIVGSHAVNGVAKIHSDIVKTKV
FKDFSELEPDKFQNKTNGITPRRWLLLCNPGLAELIAEKIGEDYVKDLSQLTKLHSFLGDDVFLRELA
KVKQENKLKFSQFLETEYKVKINPSSMFDVQVKRIHEYKRQLLNCLHVITMYNRIKKDPKKLFVPRT
VIIGGKAAPGYHMAKMIIKLITSVADVVNNDPMVGSKLKVIFLENYRVSLAEKVIPATDLSEQISTAGT
EASGTGNMKFMLNGALTIGTMDGANVEMAEEAGEENLFIFGMRIDDVAALDKKGYEAKEYYEALPE
LKLVIDQIDNGFFSPKQPDLFKDIINMLFYHDRFKVFADYEAYVKCQDKVSQLYMNPKAWNTMVLK
NIAASGKFSSDRTIKEYAQNIWNVEPSDLKISLSNESNKVNGN
11111111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111110000000000000000000000000
00000000000000000000000000000011111111111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000111111111111111
>DM_train51
MFSAGHKIKGTVVLMPKNELEVNPDGSAVDNLNAFLGRSVSLQLISATKADAHGKGKVGKDTFLEGI
NTSLPTLGAGESAFNIHFEWDGSMGIPGAFYIKNYMQVEFFLKSLTLEAISNQGTIRFVCNSWVYNT
KLYKSVRIFFANHTYVPSETPAPLVSYREEELKSLRGNGTGERKEYDRIYDYDVYNDLGNPDKSEKLA
RPVLGGSSTFPYPRRGRTGRGPTVTDPNTEKQGEVFYVPRDENLGHLKSKDALEIGTKSLSQIVQPAF
ESAFDLKSTPIEFHSFQDVHDLYEGGIKLPRDVISTIIPLPVIKELYRTDGQHILKFPQPHVVQVSQSAW
MTDEEFAREMIAGVNPCVIRGLEEFPPKSNLDPAIYGDQSSKITADSLDLDGYTMDEALGSRRLFML
DYHDIFMPYVRQINQLNSAKTYATRTILFLREDGTLKPVAIELSLPHSAGDLSAAVSQVVLPAKEGVES
TIWLLAKAYVIVNDSCYHQLMSHWLNTHAAMEPFVIATHRHLSVLHPIYKLLTPHYRNNMNINALA
RQSLINANGIIETTFLPSKYSVEMSSAVYKNWVFTDQALPADLIKRGVAIKDPSTPHGVRLLIEDYPYA
ADGLEIWAAIKTWVQEYVPLYYARDDDVKNDSELQHWWKEAVEKGHGDLKDKPWWPKLQTLED
LVEVCLIIIWIASALHAAVNFGNYPYGGLIMNRPTASRRLLPEKGTPEYEEMINNHEKAYLRTITSKLP
TLISLSVIEILSTHASDEVYLGQRDNPHWTSDSKALQAFQKFGNKLKEIEEKLVRRNNDPSLQGNRLG
PVQLPYTLLYPSSEEGLTFRGIPNSISI
11111100000000000000111111111110000000000000000000000000000000000000
00000000000000000000000000000000000000000111111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train52
GCPNDRITLPPANAQRTNMTCHFCIVGCGYHVYKWPELEEGGRAPEQNALGLDFRKQLPPLASTLTP
AMTNVVTEHDGARYDIMVVPDKACVVNSGLSSTRGGKMASYMYTPTGDGKERLSAPRLYAADEWV
DTTWDHAMALYAGLIKKTLDSDGPQGVFFSCFDHGGAGGGFENTWGTGKLMFSAIQTPMVRIHNR
PAYNSECHATREMGIGELNNAYEDAQLADVIWSIGNNPYESQTNYFLNHWLPNLQGATTSKKKERF
PNENFPQARIIFVDPRETPSVAIARHVAGNDRVLHLAIEPGTDTALFNGLFTYVVEQGWIDKPFIEAH
TKGFDDAVKTNRLSLDECSNITGVPVDMLKRAAEWSYKPKASGQAPRTMHAYEKGIIWGNDNYVIQ
SALLDLVIATHNVGRRGTGCVRMGGHQEGYTRPPYPGDKKIYIDQELIKGKGRIMTWWGCNNFQTS
NNAQALREAILQRSAIVKQAMQKARGATTEEMVDVIYEATQNGGLFVTSINLYPTKLAEAAHLMLPA
AHPGEMNLTSMNGERRIRLSEKFMDPPGTAMADCLIAARIANALRDMYQKDGKAEMAAQFEGFD
WKTEEDAFNDGFRRAGQPGAPAIDSQGGSTGHLVTYDRLRKSGNNGVQLPVVSWDESKGLVGTEM
LYTEGKFDTDDGKAHFKPAPWNGLPATVQQQKDKYRFWLNNGRNNEVWQTAYHDQYNSLMQER
YPMAYIEMNPDDCKQLDVTGGDIVEVYNDFGSTFAMVYPVAEIKRGQTFMLFGYVNGIQGDVTTDW
TDRDIIPYYKGTWGDIRKVGSMSEFKRTVSFKSRRFG
11111000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>DM_train54
SEHPQPVTTQIEKSVNTALNKNYVFNKADYQYTLTNPSLGKIVGGILYPNATGSTTVKISDKSGKIIKE
VPLSVTASTEDNFTKLLDKWNDVTIGNYVYDTNDSNMQKLNQKLDETNAKNIEAIKLDSNRTFLW
KDLDNLNNSAQLTATYRRLEDLAKQITNPHSTIYKNEKAIRTVKESLAWLHQNFYNVNKDIEGSAN
WWDFEIGVPRSITGTLSLMNNYFTDAEIKTYTDPIEHFVPDAEYFRKTLVNPFKALGGNLVDMGRV
KIIEGLLRKDNTIIEKTSHSLKNLFTTATKAEGFYADGSYIDHTNVAYTGAYGNVLIDGLTQLLPIIQET
DYKISNQELDMVYKWINQSFLPLIVKGELMDMSRGRSISREAASSHAAAVEVLRGFLRLANMSNEER
NLDLKSTIKTIITSNKFYNVFNNLKSYSDIANMNKLLNDSTVATKPLKSNLSTFNSMDRLAYYNAKK
DFGFALSLHSKRTLNYEGMNDENTRGWYTGDGMFYIYNSDQSHYSNHFWPTVNPYKMAGTTEKD
AKREDTTKEFMSKHSKDAKEKTGQVTGTSDFVGSVKLNDHFALAAMDFTNWDRTLTAQKGWVIL
NDKIVFLGSNIKNTNGIGNVSTTIDQRKDDSKTPYTTYVNGKTIDLKQASSQQFTDTKSVFLESKEPG
RNIGYIFFKNSTIDIERKEQTGTWNSINRTSKNTSIVSNPFITISQKHDNKGDSYGYMMVPNIDRTSFD
KLANSKEVELLENSSKQQVIYDKNSQTWAVIKHDNQESLINNQFKMNKAGLYLVQKVGNDYQNVYY
QPQTMTKTDQLAI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111111100000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0001111111000000000000000000000000000000000000000000000000000000000000
0000011110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train56
MKYGYFDNDNREYVITRPDVPAPWTNYLGTEKFCTVISHNAGGYSFYNSPEYNRVTKFRPNATFDR
PGHYVYLRDDDSGDYWSISWQPVAKSLDEAQYQIRHGLSYSKFQCDYNGIHARKTLFVPKGEDAEI
WDVVIKNTSDQVRTISAFSFVEFSFSHIQSDNQNHQMSLYSAGTAYRPGLIEYDLYYNTDDFEGFYYL
ASTFDPDSYDGQRDRFLGLYRDEANPLAVEQGRCSNSAQTCYNHCGSLHKQFTLQPGEEIRFAYILGI
GKGNGERLREHYQDVANIDAAFAAIKAHWDERCAKFQVKSPNQGLDTMINAWTLYQAETCVVWSR
FASFIEVGGRTGLGYRDTAQDAISVPHANPEMTRKRIVDLLRGQVKAGYGLHLFDPDWFDPEKEDVA

PSKSPTVVPTPSDEDKIHGIKDTCSDDHLWLIPTICKYVMETGETSFFDQMIPYADGGEASVYEHMK
AALDFSAEYVGQTGICKGLRADWNDCLNLGGGESSMVSFLHFWALQEFIDLAKFLGKDQDVNTYTE
MAANVREACETHLWDDEGGWYIRGLTKNGDKIGTAQQQEGRVHLESNTLAVLSGLASQERGEQAM
DAVDEHLFSPYGLHLNAPSFSTPNDDIGFVTRVYQGVKENGAIFSHPNPWAWVAETKLGRGDRAMK
FYDALNPYNQNDIIEKRIAEPYSYVQFIMGRDHQDHGRANHPWLTGTSGWAYFAVTNYILGVQSGFT
GLSVDPCIPSDWPGFEVTRQWRGATYHIQVENPDHVSKGVKSITLNGAPIQGRIPPQAQGSDNQVVV
VLG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011111111111111111111110000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train58
MRVPFSWLKAYVPELESPEVLEERLAGLGFETDRIERVFPIPRGVVFARVLEAHPIPGTRLKRLVLDA
GRTVEVVSGAENARKGIGVALALPGTELPGLGQKVGERVIQGVRSFGMALSPRELGVGEYGGGLLEFP
EDALPPGTPLSEAWPEEVVLDLEVTPNRPDALGLLGLARDLHALGYALVEPEAALKAEALPLPFALK
VEDPEGAPHFTLGYAFGLRVAPSPLWMQRALFAAGMRPINNVVDVTNYVMLERAQPMHAFDLRFV
GEGIAVRRAREGERLKTLDGVERTLHPEDLVIAGWRGEESFPLGLAGVMGGAESEVREDTEAIALEV
ACFDPVSIRKTARRHGLRTEASHRFERGVDPLGQVPAQRRALSLLQALAGARVAEALLEAGSPKPPE
AIPFRPEYANRLLGTSYPEAEQIAILKRLGCRVEGEGPTYRVTPPSHRLDLRLEEDLVEEVARIQGYET
IPLALPAFFPAPDNRGVEAPYRKEQRLREVLSGLGFQEVYTYSFMDPEDARRFRLDPPRLLLLNPLA
PEKAALRTHLFPGLVRVLKENLDLDRPERALLFEVGRVFREREETHLAGLLFGEGVGLPWAKERLSG
YFLLKGYLEALFARLGLAFRVEAQAFPFLHPGVSGRVLVEGEEVGFLGALHPEIAQELELPPVHLFELR
LPLPDKPLAFQDPSRHPAAFRDLAVVVPAPTPYGEVEALVREAAGPYLESLALFDLYQGPPLPEGHKS
LAFHLRFRHPKRTLRDEEVEEAVSRVAEALRARGFGLRGLDTP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
1111

>DM_train59
MRFKNVKKTALMLAMFGMATSSNAALFDYNATGDTEFDSPAKQGWMQDNTNNGSGVLTNADGM
PAWLVQGIGGRAQWTYSLSTNQHAQASSFGWRMTTEMKVLSGGMITNYYANGTQRVLPIISLDSSG
NLVVEFEGQTGRTVLATGTAATEYHKFELVFLPGSNPSASFYFDGKLIRDNIQPTASKQNMIVWGNGS
SNTDGVAAYRDIKFEIQGDVIFRGPDRIPSIVASSVTPGVVTAFAEKRVGGGDPGALSNTNDIITRTSRD
GGITWDTELNLTEQINVSDEFDFSDPRPIYDPSSNTVLVSYARWPTDAAQNGDRIKPWMPNGIFYSV
YDVASGNWQAPIDVTDQVKERSFQIAGWGGSELYRRNTSLNSQQDWQSNAKIRIVDGAANQIQVAD
GSRKYVVTLSIDESGGLVANLNGVSAPIILQSEHAKVHSFHDYELQYSALNHTTTLFVDGQQITTWAG
EVSQENNIQFGNADAQIDGRLHVQKIVLTQQGHNLVEFDAFYLAQQTPEVEKDLEKLGWTKIKTGN
TMSLYGNASVNPGPGHGITLTRQQNISGSQNGRLIYPAIVLDRFFLNVMSIYSDDGGSNWQTGSTLPI
PFRWKSSSILETLEPSEADMVELQNGDLLLTARLDFNQIVNGVNYSPRQQFLSKDGGITWSLLEANN
ANVFSNISTGTVDASITRFEQSDGSHFLLFTNPQGNPAGTNGRQNLGLWFSFDEGVTWKGPIQLVNG
ASAYSDIYQLDSENAIVIVETDNSNMRILRMPITLLKQKLTLSQN
11111111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
>DM_train60
AGGHGDVGMHVKEKEKNKDENKRKDEERNKTQEEHLKEIMKHIVKIEVKGEEAVKKEAAEKLLEK
VPSDVLEMYKAIGGKIYIVDGDITKHISLEALSEDKKKIKDIYGKDALLHEHYVYAKEGYEPVLVIQSSE
DYVENTEKALNVYYEIGKILSRDILSKINQPYQKFLDVLNTIKNASDSDGQDLLFTNQLKEHPTDFSV
EFLEQNSNEVQEVFAKAFAYYIEPQHRDVLQLYAPEAFNYMDKFNEQEINLSLEELKDQRMLSRYEK
WEKIKQHYQHWSDSLSEEGRGLLKKLQIPIEPKKDDIIHSLSQEEKELLKRIQIDSSDFLSTEEKEFLK
KLQIDIRDSLSEEEKELLNRIQVDSSNPLSEKEKEFLKKLKLDIQPYDINQRLQDTGGLIDSPSINLDV
RKQYKRDIQNIDALLHQSIGSTLYNKIYLYENMNINNLTATLGADLVDSTDNTKINRGIFNEFKKNFKY
SISSNYMIVDINERPALDNERLKWRIQLSPDTRAGYLENGKLILQRNIGLEIKDVQIIKQSEKEYIRIDA
KVVPKSKIDTKIQEAQLNINQEWNKALGLPKYTKLITFNVHNRYASNIVESAYLILNEWKNNIQSDLI
KKVTNYLVDGNGRFVFTDITLPNIAEQYTHQDEIYEQVHSKGLYVPESRSILLHGPSKGVELRNDSEG
FIHEFGHAVDDYAGYLLDKNQSDLVTNSKKFIDIFKEEGSNLTSYGRTNEAEFFAEAFRLMHSTDHAE
RLKVQKNAPKTFQFINDQIKFIINS
11111111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train61
MNQNLLVTKRDGSTERINLDKIHRVLDWAAEGLHNVSISQVELRSHIQFYDGIKTSDIHETIIKAAAD
LISRDAPDYQYLAARLAIFHLRKKAYGQFEPPALYDHVVKMVEMGKYDNHLLEDYTEEEFKQMDTFI
DHDRDMTFSYAAVKQLEGKYLVQNRVTGEIYESAQFLYILVAACLFSNYPRETRLQYVKRFYDAVSTF
KISLPTPIMSGVRTPTRQFSSCVLIECGDSLDSINATSSAIVKYVSQRAGIGINAGRIRALGSPIRGGEAF
HTGCIPFYKHFQTAVKSCSQGGVRGGAATLFYPMWHLEVESLLVLKNNRGVEGNRVRHMDYGVQIN
KLMYTRLLKGEDITLFSPSDVPGLYDAFFADQEEFERLYTKYEKDDSIRKQRVKAVELFSLMMQERA
STGRIYIQNVDHCNTHSPFDPAIAPVRQSNLCLEIALPTKPLNDVNDENGEIALCTLSAFNLGAINNL
DELEELAILAVRALDALLDYQDYPIPAAKRGAMGRRTLGIGVINFAYYLAKHGKRYSDGSANNLTHKT
FEAIQYYLLKASNELAKEQGACPWFNETTYAKGILPIDTYKKDLDTIANEPLHYDWEALRESIKTHG
LRNSTLSALMPSETSSQISNATNGIEPPRGYVSIKASKDGILRQVVPDYEHLHDAYELLWEMPGNDGY
LQLVGIMQKFIDQSISANTNYDPSRFPSGKVPMQQLLKDLLTAYKFGVKTLYYQNTRDGAEDAQDDL
VPSIQDDGCESGACKI
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001111111111111111111111111
>DM_train62
ANADNYKNVINRTGAPQYMKDYDYDDHQRFNPFFDLGAWHGHLLPDGPNTMGGFPGVALLTEEYI
NFMASNFDRLTVWQDGKKVDFTLEAYSIPGALVQKLTAKDVQVEMTLRFATPRTSLLETKITSNKPL
DLVWDGELLEKLEAKEGKPLSDKTIAGEYPDYQRKISATRDGLKVTFGKVRATWDLLTSGESEYQVH
KSLPVQTEINGNRFTSKAHINGSTTLYTTYSHLLTAQEVSKEQMQIRDILARPAFYLTASQQRWEEYL
KKGLTNPDATPEQTRVAVKAIETLNGNWRSPGGAVKFNTVTPSVTGRWFSGNQTWPWDTWKQAF
AMAHFNPDIAKENIRAVFSWQIQPGDSVRPQDVGFVPDLIAWNLSPERGGDGGNWNERNTKPSLA
AWSVMEVYNVTQDKTWVAEMYPKLVAYHDWWLRNRDHNGNGVPEYGATRDKAHNTESGEMLF
TVKKGDKEETQSGLNNYARVVEKGQYDSLEIPAQVAASWESGRDDAAVFGFIDKEQLDKYVANGGK
RSDWTVKFAENRSQDGTLLGYSLLQESVDQASYMYSDNHYLAEMATILGKPEEAKRYRQLAQQLAD
YINTCMFDPTTQFYYDVRIEDKPLANGCAGKPIVERGKGPEGWSPLFNGAATQANADAVVKVMLDP
KEFNTFVPLGTAALTNPAFGADIYWRGRVWVDQFWFGLKGMERYGYRDDALKLADTFFRHAKGLT
ADGPIQENYNPLTGAQQGAPNFSWSAAHLYMLYNDFFRKQ
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train63
MLNQELELSLNMAFARAREHRHEFMTVEHLLLALLSNPSAREALEACSVDLVALRQELEAFIEQTTP
VLPASEEERDTQPTLSFQRVLQRAVFHVQSSGRNEVTGANVLVAIFSEQESQAAYLLRKHEVSRLDVV
NFISHGTRKDEPTQSSDPGSQPNSEEQAGGEERLENFTTNLNQLARVGGIDPLIGREKELERAIQVLC
RRRKNNPLLVGESGVGKTAIAEGLAWRIVQGDVPEVMADCTIYSLDIGSLLAGTKYRGDFEKRFKAL
LKQLEQDTNSILFIDEIHTIIGAGAASGGQVDAANLIKPLLSSGKIRVIGSTTYQEFSNIFEKDRALARR
FQKIDITEPSIEETVQIINGLKPKYEAHHDVRYTAKAVRAAVELAVKYINDRHLPDKAIDVIDEAGARA
RLMPVSKRKKTVNVADIESVVARIARIPEKSVSQSDRDTLKNLGDRLKMLVFGQDKAIEALTEAIKM
ARAGLGHEHKPVGSFLFAGPTGVGKTEVTVQLSKALGIELLRFDMSEYMERHTVSRLIGAPPGYVGF
DQGGLLTDAVIKHPHAVLLLDEIEKAHPDVFNILLQVMDNGTLTDNNGRKADFRNVVLVMTTNAGV
RETERKSIGLIHQDNSTDAMEEIKKIFTPEFRNRLDNIIWFDHLSTDVIHQVVDKFIVELQVQLDQKG
VSLEVSQEARNWLAEKGYDRAMGARPMARVIQDNLKKPLANELLFGSLVDGGQVTVALDKEKNEL
TYGFQSAQKHKAEAAH
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
111111111111111111111111000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111110000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train66
KDWTQYVNPLMGSQSTFELSTGNTYPAIARPWGMNFWTPQTGKMGDGWQYTYTANKIRGFKQTH
QPSPWINDYGQFSIMPIVGQPVFDEEKRASWFAHKGEVATPYYYKVYLAEHDIVTEMTPTERAVLFR
FTFPENDHSYVVVDAFDKGSYIKIIPEENKIIGYTTRNSGGVPENFKNYFIIEFDKPFTYKATVENGNL
QENVAEQTTDHAGAIIGFKTRKGEQVNARIASSFISFEQAAANMNELGKDNIEQLAQKGKDAWNQV
LGKIEVEGGNLDQYRTFYSCLYRSLLFPRKFYELDANGQPIHYSPYNGQVLPGYMFTDTGFWDTFRC
LFPLLNLMYPSVNKEMQEGLINTYLESGFFPEWASPGHRGCMVGNNSASILVDAYMKGVKVDDIKTL
YEGLIHGTENVHPEVSSTGRLGYEYYNKLGYVPYDVKINENAARTLEYAYDDWCIYRLAKELKRPKK
EISLFAKRAMNYKNLFDKESKLMRGRNEDGTFQSPFSPLKWGDAFTEGNSWHYTWSVFHDPQGLI
DLMGGKEMFVTMMDSVFAVPPIFDDSYYGQVIHEIREMTVMNMGNYAHGNQPIQHMIYLYDYAGQ
PWKAQYWLRQVMDRMYTPGPDGYCGDEDNGQTSAWYVFSALGFYPVCPGTDEYVMGTPLFKKAT
LHFENGNSLVIDAPNNSTENFYIDSMSFNGADHTKNYLRHEDLFKGGTIKVDMSNRPNLNRGTKEE

DMPYSFSKELEHHHHHH
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111
>DM_train67
MTDRVSVGNLRIARVLYDFVNNEALPGTDIDPDSFWAGVDKVVADLTPQNQALLNARDELQAQIDK
WHRRRVIEPIDMDAYRQFLTEIGYLLPEPDDFTITTSGVDAEITTTAGPQLVVPVLNARFALNAANAR
WGSLYDALYGTDVIPETDGAEKGPTYNKVRGDKVIAYARKFLDDSVPLSSGSFGDATGFTVQDGQLVV
ALPDKSTGLANPGQFAGYTGAAESPTSVLLINHGLHIEILIDPESQVGTTDRAGVKDVILESAITTIMD
FEDSVAAVDAADKVLGYRNWLGLNKGDLAAAVDKDGTAFLRVLNRDRNYTAPGGGQFTLPGRSLM
FVRNVGHLMTNDAIVDTDGSEVFEGIMDALFTGLIAIHGLKASDVNGPLINSRTGSIYIVKPKMHGPA
EVAFTCELFSRVEDVLGLPQNTMKIGIMDEERRTTVNLKACIKAAADRVVFINTGFLDRTGDEIHTS
MEAGPMVRKGTMKSQPWILAYEDHNVDAGLAAGFSGRAQVGKGMWTMTELMADMVETKIAQPR
AGASTAWVPSPTAATLHALHYHQVDVAAVQQGLAGKRRATIEQLLTIPLAKELAWAPDEIREEVDNN
CQSILGYVVRWVDQGVGCSKVPDIHDVALMEDRATLRISSQLLANWLRHGVITSADVRASLERMAPL
VDRQNAGDVAYRPMAPNFDDSIAFLAAQELILSGAQQPNGYTEPILHRRRREFKARAAEKPAPSDRA
GDDAAR
000000000000000000000000000000000000000000000000000000000000000000000001
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011111111110000000000000000000000000000000000000000000000
000000000000000000000011111000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111111111
>DM_train68
MSEEISLSAEFIDRVKASVKPHWGKLGWVTYKRTYARWLPEKGRSENWDETVKRVVEGNINLDPR
LQDSPSLELKQSLTEEAERLYKLIYGLGATPSGRNLWISGTDYQRRTGDSLNNCWFVAIRPQKYGDSK
IVPSYLGKQEKAVSMPFSFLFDELMKGGGVGFSVARSNISQIPRVDFAIDLQLVVDETSESYDASVKVG
AVGKNELVQDADSIYYRLPDTREGWVLANALLIDLHFAQTNPDRKQKLILDLSDIRPYGAEIHGFGGT
ASGPMPLISMLLDVNEVLNNKAGGRLTAVDAADICNLIGKAVVAGNVRRSAELALGSNDDQDFISMK
QDQEKLMHHRWASNNSVAVDSAFSGYQPIAAGIRENGEPGIVNLDLSKNYGRIVDGYQAGIDGDVEG
TNPCGEISLANGEPCNLFEVFPLIAEEQGWDLQEVFALAARYAKRVTFSPYDWEISREIIQKNRRIGIS

MSGIQDWLLTRLGNRVVTGFKDDFDPETHEAIKVPVYDKRAIKMVDQLYKAVVKADQDYSKTLGCN
ESIKHTTVKPSGTVAKLAGASEGMHFHYGAYLIQRIRFQDSDPLLPALKACGYRTEADIYTENTTCVE
FPIKAVGADNPNFASAGTVSIAEQFATQAFLQTYWSDNAVSCTITFQDSEGDQVESLLRQYRFITKSTS
LLPYFGGSLQQAPKEPIDKETYEKRSQEITGNVEEVFSQLNSDVKDLELVDQTDCEGGACPIK
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111
>DM_train69
EVKQENRLLNESESSSQGLLGYYFSDLNFQAPMVVTSSTTGDLSIPSSELENIPSENQYFQSAIWSGFI
KVKKSDEYTFATSADNHVTMWVDDQEVINKASNSNKIRLEKGRLYQIKIQYQRENPTEKGLDFKLY
WTDSQNKKEVISSDNLQLPELKQKSSNSRKKRSTSAGPTVPDRDNDGIPDSLEVEGYTVDVKNKRT
FLSPWISNIHEKKGLTKYKSSPEKWSTASDPYSDFEKVTGRIDKNVSPEARHPLVAAYPIVHVDMENI
ILSKNEDQSTQNTDSETRTISKNTSTSRTHTSEVHGNAEVHASFFDIGGSVSAGFSNSNSSTVAIDHSL
SLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYNVLPTTSLVLGKNQTLATIKAKENQLSQIL
APNNYYPSKNLAPIALNAQDDFSSTPITMNYNQFLELEKTKQLRLDTDQVYGNIATYNFENGRVRVD
TGSNWSEVLPQIQETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPNGN
LQYQGKDITEFDFNFDQQTSQNIKNQLAELNATNIYTVLDKIKLNAKMNILIRDKRFHYDRNNIAVG
ADESVVKEAHREVINSSTEGLLLNIDKDIRKILSGYIVEIEDTEGLKEVINDRYDMLNISSLRQDGKTFI
DFKKYNDKLPLYISNPNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKKGYEIG
11111111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011110000000000000000000000000000000000000000000
00000000000000000001111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000111111111111
11100000000000000011111111111111110000000000000000000000111111110000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>DM_train73
MAPSLDSISHSFANGVASAKQAVNGASTNLAVAGSHLPTTQVTQVDIVEKMLAAPTDSTLELDGYSL
NLGDVVSAARKGRPVRVKDSDEIRSKIDKSVEFLRSQLSMSVYGVTTGFGGSADTRTEDAISLQKALL
EHQLCGVLPSSFDSFRLGRGLENSLPLEVVRGAMTIRVNSLTRGHSAVRLVVLEALTNFLNHGITPIVP
LRGTISASGDLSPLSYIAAAISGHPDSKVHVVHEGKEKILYAREAMALFNLEPVVLGPKEGLGLVNGTA
VSASMATLALHDAHMLSLLSQSLTAMTVEAMVGHAGSFHPFLHDVTRPHPTQIEVAGNIRKLLEGSR

FAVHHEEEVKVKDDEGILRQDRYPLRTSPQWLGPLVSDLIHAHAVLTIEAGQSTTDNPLIDVENKTS
HHGGNFQAAAVANTMEKTRLGLAQIGKLNFTQLTEMLNAGMNRGLPSCLAAEDPSLSYHCKGLDIA
AAAYTSELGHLANPVTTHVQPAEMANQAVNSLALISARRTTESNDVLSLLLATHLYCVLQAIDLRAIE
FEFKKQFGPAIVSLIDQHFGSAMTGSNLRDELVEKVNKTLAKRLEQTNSYDLVPRWHDAFSFAAGTV
VEVLSSTSLSLAAVNAWKVAAAESAISLTRQVRETFWSAASTSSPALSYLSPRTQILYAFVREELGVKA
RRGDVFLGKQEVTIGSNVSKIYEAIKSGRINNVLLKMLA
11111111111111111111111110000001111110000000000000000000000000000000
00000000000000000000000000000011111111111111111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000111100
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train74
QNVSLQPPPQQLIVQNKTIDLPAVYQLNGGEEANPHAVKVLKELLSGKQSSKKGMLISIGEKGDKSVR
KYSRQIPDHKEGYYLSVNEKEIVLAGNDERGTYYALQTFAQLLKDGKLPEVEIKDYPSVRYRGVVEGF
YGTPWSHQARLSQLKFYGKNKMNTYIYGPKDDPYHSAPNWRLPYPDKEAAQLQELVAVANENEVD
FVWAIHPGQDIKWNKEDRDLLLAKFEKMYQLGVRSFAVFFDDISGEGTNPQKQAELLNYIDEKFAQ
VKPDINQLVMCPTEYNKSWSNPNGNYLTTLGDKLNPSIQIMWTGDRVISDITRDGISWINERIKRPA
YIWWNFPVSDYVRDHLLLGPVYGNDTTIAKEMSGFVTNPMEHAESSKIAIYSVASYAWNPAKYDTW
QTWKDAIRTILPSAAEELECFAMHNSDLGPNGHGYRREESMDIQPAAERFLKAFKEGKNYDKADFE
TLQYTFERMKESADILLMNTENKPLIVEITPWVHQFKLTAEMGEEVLKMVEGRNESYFLRKYNHVK
ALQQQMFYIDQTSNQNPYQPGVKTATRVIKPLIDRTFATVVKFFNQKFNAHLDATTDYMPHKMISN
VEQIKNLPLQVKANRVLISPANEVVKWAAGNSVEIELDAIYPGENIQINFGKDAPCTWGRLEISTDAK
EWKTVDLKQKESRLSAGLQKAPVKFVRFTNVSDEEQQVYLRQFVLTIEKK
11110000000000000000000000000000000000000000011111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111000000000000000011111111111000000000
00000000011111111111111111111111111111100000000000000001111111111111100
000001
>DM_train75
GVTVIPRLLGLKDEKKIATTVGEARLSGINYRHPDSALVSYPVAAAAPLGRLPAGNYRIAIVGGGAGGI
AALYELGRLAATLPAGSGIDVQIYEADPDSFLHDRPGIKAIKVRGLKAGRVSAALVHNGDPASGDTIYE
VGAMRFPEIAGLTWHYASAAFGDAAPIKVFPNPGKVPTEFVFGNRVDRYVGSDPKDWEDPDSPTLK

VLGVVAGGLVGNPQGENVAMYPIANVDPAKIAAILNAATPPADALERIQTKYWPEFIAQYDGLTLGAA
VREIVTVAFEKGTLPPVDGVLDVDESISYYVELFGRFGFGTGGFKPLYNISLVEMMRLILWDYSNEYTL
PVTENVEFIRNLFLKAQNVGAGKLVVQVRQERVANACHSGTASARAQLLSYDSHNAVHSEAYDFVIL
AVPHDQLTPIVSRSGFEHAASQNLGDAGLGLETHTYNQVYPPLLLSDSSPAANARIVTAIGQLHMARS
SKVFATVKTAALDQPWVPQWRGEPIKAVVSDSGLAASYVVPSPIVEDGQAPEYSSLLASYTWEDDST
RLRHDFGLYPQNPATETGTADGMYRTMVNRAYRYVKYAGASNAQPWWFYQLLAEARTADRFVFD
WTTNKTAGGFKLDMTGDHHQSNLCFRYHTHALAASLDNRFFIASDSYSHLGGWLEGAFMSALNAV
AGLIVRANRGDVSALSTEARPLVIGLRPVVKVPAAELATSQ
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
111
>DM_train77
MKKLFVTCIVFFSILSPALLIAQQTGTAELIMKRVMLDLKKPLRNMDKVAEKNLNTLQPDGSWKDV
PYKDDAMTNWLPNNHLLQLETIIQAYIEKDSHYYGDDKVFDQISKAFKYWYDSDPKSRNWWHNEI
ATPQALGEMLILMRYGKKPLDEALVHKLTERMKRGEPEKKTGANKTDIALHYFYRALLTSDEALLSF
AVKELFYPVQFVHYEEGLQYDYSYLQHGPQLQISSYGAVFITGVLKLANYVRDTPYALSTEKLAIFSKY
YRDSYLKAIRGSYMDFNVEGRGVSRPDILNKKAEKKRLLVAKMIDLKHTEEWADAIARTDSTVAAGY
KIEPYHHQFWNGDYVQHLRPAYSFNVRMVSKRTRRSESGNKENLLGRYLSDGATNIQLRGPEYYNI
MPVWEWDKIPGITSRDYLTDRPLTKLWGEQGSNDFAGGVSDGVYGASAYALDYDSLQAKKAWFFFD
KEIVCLGAGINSNAPENITTTLNQSWLNGPVISTAGKTGRGKITTFKAQGQFWLLHDAIGYYFPEGAN
LSLSTQSQKGNWFHINNSHSKDEVSGDVFKLWINHGARPENAQYAYIVLPGINKPEEIKKYNGTAPK
VLANTNQLQAVYHQQLDMVQAIFYTAGKLSVAGIEIETDKPCAVLIKHINGKQVIWAADPLQKEKTA
VLSIRDLKTGKTNRVKIDFPQQEFAGATVELK
11111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train79
LMPGGKEFYNFYPEYVVGLQWMGDNYVFIEGDDLVFNKANGKSAQTTRFSAADLNALMPEGCKFQ
TTDAFPSFRTLDAGRGLVVLFTQGGLVGFDMLARKVTYLFDTNEETASLDFSPVGDRVAYVRNHNLY

IARGGKLGEGMSRAIAVTIDGTETLVYGQAVHQREFGIEKGTFWSPKGSCLAFYRMDQSMVKPTPIV
DYHPLEAESKPLYYPMAGTPSHHVTVGIYHLATGKTVYLQTGEPKEKFLTNLSWSPDENILYVAEVN
RAQNECKVNAYDAETGRFVRTLFVETDKHYVEPLHPLTFLPGSNNQFIWQSRRDGWNHLYLYDTTG
RLIRQVTKGEWEVTNFAGFDPKGTRLYFESTEASPLERHFYCIDIKGGKTKDLTPESGMHRTQLSPDG
SAIIDIFQSPTVPRKVTVTNIGKGSHTLLEAKNPDTGYAMPEIRTGTIMAADGQTPLYYKLTMPLHFD
PAKKYPVIVYVYGGPHAQLVTKTWRSSVGGWDIYMAQKGYAVFTVDSRGSANRGAAFEQVIHRRLG
QTEMADQMCGVDFLKSQSWVDADRIGVHGWSYGGFMTTNLMLTHGDVFKVGVAGGPVIDWNRYA
IMYGERYFDAPQENPEGYDAANLLKRAGDLKGRLMLIHGAIDPVVVWQHSLLFLDACVKARTYPDY
YVYPSHEHNVMGPDRVHLYETITRYFTDHL
11111111111111100000000000000000000011111110000000000001111111111100
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111100000000000000000000000000000000000000000000000011110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train83
MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLTLHFEGRNYQASVDSLTFSVVTGPA
PSQEAGTKARFPLRDAVEEGDWTATVVDQQDCTLSLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGH
FILLFNAWCPADAVYLDSEEERQEYVLTQQGFIYQGSAKFIKNIPWNFGQFQDGILDICLILLDVNPKF
LKNAGRDCSRRSSPVYVGRVGSGMVNCNDDQGVLLGRWDNNYGDGVSPMSWIGSVDILRRWKNH
GCQRVKYGQCWVFAAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIWNF
HCWVESWMTRPDLQPGYEGWQALDPTPQEKSEGTYCCGPVPVRAIKEGDLSTKYDAPFVFAEVNA
DVVDWIQQDDGSVHKSINRSLIVGLKISTKSVGRDEREDITHTYKYPEGSSEEREAFTRANHLNKLA
EKEETGMAMRIRVGQSMNMGSDFDVFAHITNNTAEEYVCRLLLCARTVSYNGILGPECGTKYLLNLT
LEPFSEKSVPLCILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQKRKLV
AEVSLQNPLPVALEGCTFTVEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLVPLHMGLHKLVVNFESD
KLKAVKGFRNVIIGPA
11111111111111000000000000000000000000001111111111100000000000000000
00000000000000000000000000000000000000000000000000001111111110000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train84
VLSGCSNNVSSIKIDRFNNISAVNGPGEEDTWASAQKQGVGTANNYVSKVWFTLANGAISEVYYPTID
TADVKEIKFIVTDGKSFVPDETKDAISKVEKFTDKSLGYKLVNTDKKGRYRITKDIFTDVKRNSLIMK

AKFEALEGSIHDYKLYLAYDPHIKNQGSYNEGYVIKANNNEMLMAKRDNVYTALSSNIGWKGYSIGY
YKVNDIMTDLDENKQMTKHYDSARGNIIEGAEIDLTKNSEFEIVLSFGQSDSEAAKTALETLGEDYN
NLKNNYIDEWTKYCNTLNNFNGKANSLYYNSMMILKASEDKTNKGAYIASLSIPWGDGQRDDNTG
GYHLVWSRDLYHVANAFIAAGDVDSANRSLDYLAKVVKDNGMIPQNTWISGKPYWTGIQLDEQAD
PIILSYRLKRYDLYDSLVKPLADFIIKIGPKTGQERWEEIGGYSPATMAAEVAGLTCAAYIAEQNKDYES
AQKYQEKADNWQKLIDNLTYTENGPLGNGQYYIRIAGLSDPDADFMINIANGGGVYDQKEIVDPSFL
ELVRLGVKSADDPKILNTLKVVDSTIKVDTPKGPSWYRYNHDGYGEPSKTELYHGAGKGRLWPLLTG
ERGMYEIAAGKDATPYVKAMEKFANEGGIISEQVWEDTGLPTDSASPLNWAHAEYVILFASNIEHKV
LDMPDIVYKRYVA
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000
>DM_train85
TDAKNNLLYFFDRPNEPCFMQKGEDKVVFEIPDHYYPDKYKSLSNTLSNRFGNEATKRIPIRNITLP
NLEVPMQLPYNDQFSLFVPKHRTMAAKLIDIFMGMRDVEDLQSVCSYCQLRINPYMFNYCLSVAILH
RPDTKGLSIPTFAETFPDKFMDSKVFLRAREVSNVVISGSRMPVNVPINYTANTTEPEQRVAYFREDI
GINLHHWHWHLVYPFDSADRSIVNKDRRGELFYYMHQQIIGRYNVERMCNGLPQVKPFSDFSAPIE
EGYFPKLDSQVASRTWPPRFAGSVFRNLDRTVDQVKIDVRKLFTWRDQFLEAIQKMAIKMPNGREL
PLDEVTGIDMLGNLMESSIISPNRGYYGDLHNMGHVFAAYTHDPDHRHLEQFGVMGDSATAMRDP
FFYRWHRFVDDVFNIYKEKLTPYTNERLDFPGVRVSSVGIEGARPNTLRTLWQQSTVELGRGLDFTP
RGSVLARFTHLQHDEFQYVIEVNNTTGGNLMGTVRIFMAPKVDDNGQPMSFNKQRRLMIELDKFS
QALRPGTNTIRRRSVDSSVTIPYERTFRNQSERPGDPGTAGAAEFDFCGCGWPHHMLIPKGTAQGYP
VVLFVMISNWNNDRIEQDLVGSCNDAASYCGIRDRKYPDKQAMGYPFDRKMANDAATLSDFLRPN
MAVRDCSIQFSDTTVERGQQG
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000010000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111111111
11111111000000000000000000000000000000000000000011000000000000000000000
000000000000000000000000000000000000000011111
>DM_train86
MLRFVTKNSQDKSSDLFSICSDRGTFVAHNRVRTDFKFDNLVFNRVYGVSQKFTLVGNPTVCFNEGS
SYLEGIAKKYLTLDGGLAIDNVLNELRSTCGIPGNAVASHAYNITSWRWYDNHVALLMNMLRAYHLQ

VLTEQGQYSAGDIPMYHDGHVKIKLPVTIDDTAGPTQFAWPSDRSTDSYPDWAQFSESFPSIDVPYL
DVRPLTVTEVNFVLMMMSKWHRRTNLAIDYEAPQLADKFAYRHALTVQDADEWIEGDRTDDQFR
PPSSKVMLSALRKYVNHNRLYNQFYTAAQLLAQIMMKPVPNCAEGYAWLMHDALVNIPKFGSIRGR
YPFLLSGDAALIQATALEDWSAIMAKPELVFTYAMQVSVALNTGLYLRRVKKTGFGTTIDDSYEDGAF
LQPETFVQAALACCTGQDAPLNGMSDVYVTYPDLLEFDAVTQVPITVIEPAGYNIVDDHLVVVGVPV
ACSPYMIFPVAAFDTANPYCGNFVIKAANKYLRKGAVYDKLEAWKLAWALRVAGYDTHFKVYGDTH
GLTKFYADNGDTWTHIPEFVTDGDVMEVFVTAIERRARHFVELPRLNSPAFFRSVEVSTTIYDTHVQ
AGAHAVYHASRINLDYVKPVSTGIQVINAGELKNYWGSVRRTQQGLGVVGLTMPAVMPTGEPTAGA
AHEELIEQADNVLVE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000111111111111111111111111111111
>DM_train87
MTAGYEPCWLRYERKDQYSRLRFEEIVAKRTSPIFQAAVEELQKGLRSMMEIEPQVVQEVNETANSI
WLGTLEDEEFERPLEGTLVHPEGYVIRSDVDDGPFRIYIIGKTDAGVLYGVFHFLRLLQMGENIAQLSI
IEQPKNRLRMINHWDNMDGSIERGYAGRSIFFVDDQFVKQNQRIKDYARLLASVGINAISINNVNVH
KTETKLITDHFLPDVAEVADIFRTYGIKTFLSINYASPIEIGGLPTADPLDPEVRWWWKETAKRIYQYI
PDFGGFVVKADSEFRPGPFTYGRDHAEGANMLAEALAPFGGLVIWRCFVYNCQQDWRDRTTDRAK
AAYDHFKPLDGQFRENVILQIKNGPMDFQVREPVSPLFGAMPKTNQMMEVQITQEYTGQQKHLCF
LIPQWKEVLDFDTYAKGKGSEVKKVIDGSLFDYRYSGIAGVSNIGSDPNWTGHTLAQANLYGFGRLA
WNPDLSAEEIANEWVVQTFGDDSQVVETISWMLLSSWRIYENYTSPLGVGWMVNPGHHYGPNVD
GYEYSHWGTYHYADRDGIGVDRTVATGTGYTAQYFPENAAMYESLDTCPDELLLFFHHVPYTHRLH
SGETVIQHIYNTHFEGVEQAKQLRKRWEQLKGKIDEKRYHDVLERLTIQVEHAKEWRDVINTYFYR
KSGIDDQYGRKIYR
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000011
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>DM_train88
SAPGEDEECGRVRDFVAKLANNTHQHVFDDLRGSVSLSWVGDSTGVILVLTTFHVPLVIMTFGQSKL
YRSEDYGKNFKDITDLINNTFIRTEFGMAIGPENSGKVVLTAEVSGGSRGGRIFRSSDFAKNFVQTDLP

FHPLTQMMYSPQNSDYLLALSTENGLWVSKNFGGKWEEIHKAVCLAKWGSDNTIFFTTYANGSCKA
DLGALELWRTSDLGKSFKTIGVKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGDTWSMAQLPSVG
QEQFYSILAANDDMVFMHVDEPGDTGFGTIFTSDDRGIVYSKSLDRHLYTTTGGETDFTNVTSLRGV
YITSVLSEDNSIQTMITFDQGGRWTHLRKPENSECDATAKNKNECSLHIHASYSISQKLNVPMAPLSE
PNAVGIVIAHGSVGDAISVMVPDVYISDDGGYSWTKMLEGPHYYTILDSGGIIVAIEHSSRPINVIKFST
DEGQCWQTYTFTRDPIYFTGLASEPGARSMNISIWGFTESFLTSQWVSYTIDFKDILERNCEEKDYTI
WLAHSTDPEDYEDGCILGYKEQFLRLRKSSMCQNGRDYVVTKQPSICLCSLEDFLCDFGYYRPENDS
KCVEQPELKGHDLEFCLYGREEHLTTNGYRKIPGDKCQGGVNPVREVKDLKKKCTSNFLSPEKQNSK
SNS
1111111111000000000000000000000000000000000000000000000111110000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001111111
>DM_train89
MVKSRKISILLAVAMLVSIMIPTTAFAGPTKAPTKDGTSYKDLFLELYGKIKDPKNGYFSPDEGIPYHSI
ETLIVEAPDYGHVTTSEAFSYYVWLEAMYGNLTGNWSGVETAWKVMEDWIIPDSTEQPGMSSYNP
NSPATYADEYEDPSYYPSELKFDTVRVGSDPVHNDLVSAYGPNMYLMHWLMDVDNWYGFGTGTRA
TFINTFQRGEQESTWETIPHPSIEEFKYGGPNGFLDLFTKDRSYAKQWRYTNAPDAEGRAIQAVYWA
NKWAKEQGKGSAVASVVSKAAKMGDFLRNDMFDKYFMKIGAQDKTPATGYDSAHYLMAWYTAWG
GGIGASWAWKIGCSHAHFGYQNPFQGWVSATQSDFAPKSSNGKRDWTTSYKRQLEFYQWLQSAEG
GIAGGATNSWNGRYEKYPAGTSTFYGMAYVPHPVYADPGSNQWFGFQAWSMQRVMEYYLETGDSS
VKNLIKKWVDWVMSEIKLYDDGTFAIPSDLEWSGQPDTWTGTYTGNPNLHVRVTSYGTDLGVAGS
LANALATYAAATERWEGKLDTKARDMAAELVNRAWYNFYCSEGKGVVTEEARADYKRFFEQEVYV
PAGWSGTMPNGDKIQPGIKFIDIRTKYRQDPYYDIVYQAYLRGEAPVLNYHRFWHEVDLAVAMGVL
ATYFPDMTYKVPGTPSTKLYG
1111111111111111111111111110000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111111
>DM_train90
SPCSVVNDLRWDLSAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTYTVQRNIL
DFPQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQRIVWLQEKVQKDSLRPEAARYLERLIKLG

RRNGLHLPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLK
VTLKYPHYFPLLKKCHVPETRRKVEEAFNSRCKEENSAILKELVTLRAQKSRLLGFHTHADYVLEMN
MAKTSQTVATFLDELAQKLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYYMNQVEETRY
CVDQNLLKEYFPVQVVTHGLLGIYQELLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLY
PREGKYGHAACFGLQPGCLRQDGSRQIAIAAMVANFTKPTADAPSLLQHDEVRTYFHEFGHVMHQL
CSQAEFAMFSGTHVETDFVEAPSQMLENWVWEQEPLLRMSRHYRTGSAVPRELLEKLIESRQANT
GLFNLRQIVLAKVDQALHTQTDADPAEEYARLCQEILGVPATPGTNMPATFGHLAGGYDAQYYGYLW
SEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRFLGRDPKQDAFLLSKGLQVG
GCEPEPQVC
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111111111
>DM_train91
AGVDEAAIRATEQAGGEWLSHGRTYAEQRFSPLKQIDASNVRSLGLAWYMDLDNTRGLEATPLFHD
GVIYTSMSWSRVIAVDAASGKELWRYDPEVAKVKARTSCCDAVNRGVALWGDKVYVGTLDGRLIAL
DAKTGKAIWSQQTTDPAKPYSITGAPRVVKGKVIIGNGGAEYGVRGFVSAYDADTGKLAWRFYTVPG
DPALPYEHPELREAAKTWQGDQYWKLGGGGTVWDSMAYDPELDLLYVGTGNGSPWNREVRSPGG
GDNLYLSSILAIRPDTGKLAWHYQVTPGDSWDFTATQQITLAELNIDGKPRKVLMQAPKNGFFYVLD
RTNGKLISAEKFGKVTWAEKVDLATGRPVEAPGVRYEKEPIVMWPSPFGAHNWHSMSFNPGTGLV
YIPYQEVPGVYRNEGKDFVTRKAFNTAAGFADATDVPAAVVSGALLAWDPVKQKAAWKVPYPTHW
NGGTLSTAGNLVFQGTAAGQMHAYSADKGEALWQFEAQSGIVAAPMTFELAGRQYVAIMAGWGGVA
TLTGGESMNLPGMKNRSRLLVFALDGKAQLPPPAPAPAKVERVPQPVTAAPEQVQAGKQLYGQFCSV
CHGMGTISGGLIPDLRQSSDATREHFQQIVLQGALKPLGMPSFDDSLKPEEVEQIKLYVMSREYEDY
MARHKAAP
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>DM_train96
MSLSIPREFSNAIRFLSIDATLKAKSGHPGMPMGMADIATVLWTKFLKHNPNNPHWINRDRFVLSN
GHGSMLLYSLLHLTGYDLSIEDIKNFRQLHSKTPGHPEYGYTPGVETTTGPLGQGVANAVGMALGEK

LLSDRYNTPDLKVIDHHTYVFLGDGCLMEGVSHEACSLAGTLGLNKLVAFWDDNNISIDGDTKGWF
SDNTPERFRAYGWHVIENVDGHDFVAIEKAINEAHSQQQKPTLICCKTVIGFGSPEKAGTASVHGSPL
SDQERASAAKELNWDYQAFEIPQDVYKYWDAREKGQALEANWQGQRNLFKDSPKFDEFERVLSKE
LPVGLESAINDYIASQLSNPVKVATRKASQMVLEVLCKNMPEMFGGSADLTGSNNTNWSGSVWLNN
TQEGANYLSYGVREFGMAAIMNGLSLYGGIKPYGGTFLVFSDYSRNAIRMSALMKQPVVHVMSHDSI
GLGEDGPTHQPIEHVPSLRLIPNLSVWRPADTIETMIAWKEAVKSKDTPSVMVLTRQNLMPVVQTQ
HQVANIARGGYLVKDNPDAKLTIVATGSEVELAVKVANEFEKKGIKLNVASIPCVEVFATQAHEYKKT
VIKDDIPAVFVEMAQPDMWYKYMPKAGGEVKGIYSFGESAPAEDLFKRFGFTVENISNIVAKYV
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111100000000000000000000
00000000000000000000000000000000000000000000111111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train97
MERINFIFGIHNHQPLGNFGWVFEEAYNRSYRPFMEILEEFPEMKVNVHFSGPLLEWIEENKPDYL
DLLRSLIKRGQLEIVVAGFYEPVLAAIPKEDRLVQIEMLKDYARKLGYDAKGVWLTERVWQPELVKSL
REAGIEYVVVDDYHFMSAGLSKEELFWPYYTEDGGEVITVFPIDEKLRYLIPFRPVKKTIEYLESLTSD
DPSKVAVFHDDGEKFGVWPGTYEWVYEKGWLREFFDAITSNEKINLMTYSEYLSKFTPRGLVYLPIA
SYFEMSEWSLPAKQAKLFVEFVEQLKEEGKFEKYRVFVRGGIWKNFFFKYPESNFMHKRMLMVSK
AVRDNPEARKYILKAQCNDAYWHGVFGGIYLPHLRRTVWENIIKAQRYLKPENKILDVDFDGRAEI
MVENDGFIATIKPHYGGSIFELSSKRKAVNYNDVLPRRWEHYHEVPEATKPEKESEEGIASIHELGKQ
IPEEIRRELAYDWQLRAILQDHFIKPEETLDNYRLVKYHELGDFVNQPYEYEMIENGVKLWREGGVY
AEEKIPARVEKKIELTEDGFIAKYRVLLEKPYKALFGVEINLAVHSVMEKPEEFEAKEFEVNDPYGIGK
VRIELDKAAKVWKFPIKTLSQSEAGWDFIQQGVSYTMLFPIEKELEFTVRFREL
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111111111111111100000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train98
MSRLLALLALAPLLAGAAETTAPKPPSAFTVEAQRRVEAELPFADRADFERADRGLIRRPERLLIRN
PDGSVAWQLGGYDFLLDGKPRDSINPSLQRQALLNLKYGLFEVAEGIYQVRGFDLANITFIRGDSGWI
VVDTLTTPATARAAYELVSRELGERPIRTVIYSHAHADHFGGVRGLVEPQQVASGAVQIIAPAGFMEAA
IKENVLAGNAMMRRATYQYGTQLPKGPQGQVDMAIGKGLARGPLSLLAPTRLIEGEGEDLVLDGVPF

TFQNTPGTESPAEMNIWLPRQKALLMAENVVGTLHNLYTLRGAEVRDALGWSKYINQALHRFGRQ
AEVMFAVHNWPRWGNAEIVEVLEKQRDLYGYLHDQTLHLANQGVTIGQVHNRLRLPPSLDQEWY
DRGYHGSVSHNARAVLNRYLGYYDGNPATLDPLSPEDSAGRYVEYMGGAERLLEQARASYARGEYR
WVVEVVNRLVFAEPDNRAARELQADALEQLGYQAENAGWRNSYLSAAYELRHGVPRDQPTMKAGS
ADALAAMDTGLLFDYLGVRLDAGAAEGKALSINLRLPDIGENYLLELKNSHLNNLRGVQSEDAGQTV
SIDRADLNRLLLKEVSAVRLVFEGKLKSSGNPLLLGQLFGMLGDFDFWFDIVTPAAKSEG
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011100000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000111
>DM_train100
MNFLRGVMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKKYRLEVGIQAMEHLI
HVLQTDRSDSEIIGYALDTLYNIISNDEEEEVEENSTRQSEDLGSQFTEIFIKQQENVTLLLSLLEEFDF
HVRWPGVKLLTSLLKQLGPQVQQIILVSPMGVSRLMDLLADSREVIRNDGVLLLQALTRSNGAIQKIV
AFENAFERLLDIITEEGNSDGGIVVEDCLILLQNLLKNNNSNQNFFKEGSYIQRMKPWFEVGDENSG
WSAQKVTNLHLMLQLVRVLVSPNNPPGATSSCQKAMFQCGLLQQLCTILMATGVPADILTETINTVS
EVIRGCQVNQDYFASVNAPSNPPRPAIVVLLMSMVNERQPFVLRCAVLYCFQCFLYKNQKGQGEIVST
LLPSTIDATGNTVSAGQLLCGGLFSTDSLSNWCAAVALAHALQENATQKEQLLRVQLATSIGNPPVSL
LQQCTNILSQGSKIQTRVGLLMLLCTWLSNCPIAVTHFLHNSANVPFLTGQIAENLGEEEQLVQGLCA
LLLGISIYFNDNSLETYMKEKLKQLIEKRIGKENFIEKLGFISKHELYSRASQKPQPNFPSPEYMIFDHE
FTKLVKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDSI
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000011111111111110000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001111111111
111111111111
>DM_train101
MGGSHHHHHHGMASLAPGSSRVELFKRQSSKVPFEKDGKVTERVVHSFRLPALVNVDGVMVAIAD
ARYETSFDNSLIDTVAKYSVDDGETWETQIAIKNSRASSVSRVVDPTVIVKGNKLYVLVGSYNSSRSY
WTSHGDARDWDILLAVGEVTKSTAGGKITASIKWGSPVSLKEFFPAEMEGMHTNQFLGGAGVAIVAS
NGNLVYPVQVTNKKKQVFSKIFYSEDEGKTWKFGKGRSAFGCSEPVALEWEGKLIINTRVDYRRRLV
YESSDMGNTWLEAVGTLSRVWGPSPKSNQPGSQSSFTAVTIEGMRVMLFTHPLNFKGRWLRDRLN
LWLTDNQRIYNVGQVSIGDENSAYSSVLYKDDKLYCLHEINSNEVYSLVFARLVGELRIIKSVLQSWKN

WDSHLSSICTPADPAASSSERGCGPAVTTVGLVGFLSHSATKTEWEDAYRCVNASTANAERVPNGLKF
AGVGGGALWPVSQQGQNQRYHFANHAFTLVASVTIHEVPKGASPLLGASLDSSGGKKLLGLSYDKRH
QWQPIYGSTPVTPTGSWEMGKRYHVVLTMANKIGSVYIDGEPLEGSGQTVVPDERTPDISHFYVGGY
KRSGMPTDSRVTVNNVLLYNRQLNAEEIRTLFLSQDLIGTEAHMD
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111110000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train104
MTHHDCAHCSSDACATEMLNLAEANSIETAWHRYEKQQPQCGFGSAGLCCRICLKGPCRIDPFGEGP
KYGVCGADRDTIVARHLVRMIAAGTAAHSEHGRHIALAMQHISQGELHDYSIRDEAKLYAIAKTLGVA
TEGRGLLAIVGDLAAITLGDFQNQDYDKPCAWLAASLTPRRVKRLGDLGLLPHNIDASVAQTMSRTH
VGCDADPTNLILGGLRVAMADLDGSMLATELSDALFGTPQPVVSAANLGVMKRGAVNIAVNGHNP
MLSDIICDVAADLRDEAIAAGAAEGINIIGICCTGHEVMMRHGVPLATNYLSQELPILTGALEAMVVD
VQCIMPSLPRIAECFHTQIITTDKHNKISGATHVPFDEHKAVETAKTIIRMAIAAFGRRDPNRVAIPAF
KQKSIVGFSAEAVVAALAKVNADDPLKPLVDNVVNGNIQGIVLFVGCNTTKVQQDSAYVDLAKSLAK
RNVLVLATGCAAGAFAKAGLMTSEATTQYAGEGLKGVLSAIGTAAGLGGPLPLVMHMGSCVDNSRAV
ALATALANKLGVDLSDLPLVASAPECMSEKALAIGSWAVTIGLPTHVGSVPPVIGSQIVTKLVTETAKD
LVGGYFIVDTDPKSAGDKLYAAIQERRAGLGL
11111111111111111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train105
PILEKAPQKMPVKASSWEELDLPKLPVPPLQQTLATYLQCMQHLVPEEQFRKSQAIVKRFGAPGGL
GETLQEKLLERQEKTANWVSEYWLNDMYLNNRLALPVNSSPAVIFARQHFQDTNDQLRFAACLISG
VLSYKTLLDSHSLPTDWAKGQLSGQPLCMKQYYRLFSSYRLPGHTQDTLVAQKSSIMPEPEHVIVACC
NQFFVLDVVINFRRLSEGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSEWAKARTVLLKDSTNRD
SLDMIERCICLVCLDGPGTGELSDTHRALQLLHGGGCSLNGANRWYDKSLQFVVGRDGTCGVVCEHS
PFDGIVLVQCTEHLLKHMMTSNKKLVRADSVSELPAPRRLRWKCSPETQGHLASSAEKLQRIVKNL
DFIVYKFDNYGKTFIKKQKYSPDGFIQVALQLAYYRLYQRLVPTYESASIRRFQEGRVDNIRSATPEAL
AFVQAMTDHKAAMPASEKLQLLQTAMQAQTEYTVMAITGMAIDNHLLALRELARDLCKEPPEMF
MDETYLMSNRFVLSTSQVPTTMEMFCCYGPVVPNGYGACYNPQPEAITFCISSFHSCKETSSVEFAEA

VGASLVDMRDLCSSRQPADSKPPAPKEKARGPSQAKQS
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111111111
>DM_train106
APAADAAQAHDPLSVQTGSDIPASVHMPTDQQRDYIKREVMVPMRDGVKLYTVIVIPKNARNAPILL
TRTPYNAKGRANRVPNALTMREVLPQGDDVFVEGGYIRVFQDIRGKYGSQGDYVMTRPPHGPLNPT
KTDETTDAWDTVDWLVHNVPESNGRVGMTGSSYEGFTVVMALLDPHPALKVAAPESPMVDGWM
GDDWFHYGAFRQGAFDYFVSQMTARGGGNDIPRRDADDYTNFLKAGSAGSFATQAGLDQYPFWQR
MHAHPAYDAFWQGQALDKILAQRKPTVPMLWEQGLWDQEDMWGAIHAWQALKDADVKAPNTL
VMGPWRHSGVNYNGSTLGPLEFEGDTAHQYRRDVFRPFFDEYLKPGSASVHLPDAIIYNTGDQKW
DYYRSWPSVCESNCTGGLTPLYLADGHGLSFTHPAADGADSYVSDPAHPVPFISRPFAFAQSSRWKP
WLVQDQREAESRPDVVTYETEVLDEPVRVSGVPVADLFAATSGTDSDWVVKLIDVQPAMTPDDPK
MGGYELPVSMDIFRGRYRKDFAKPEALQPDATLHYHFTLPAVNHVFAKGHRIMVQIQSSWFPLYDR
NPQKFVPNIFDAKPADYTVATQSIHHGGKEATSILLPVVKQEQKLISEEDL
11111111100000000000011111111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111111
>DM_train107
GSHMLDNMDVIGERIKRIKEEHNSTWHYDDENPYKTWAYHGSYEVKATGSASSMINGVVKLLTKP
WDVVPMVTQMAMTDTTPFGQQRVFKEKVDTRTPRPLPGTRKVMEITAEWLWRTLGRNKRPRLC
TREEFTKKVRTNAAMGAVFTEENQWDSAKAAVEDEEFWKLVDRERELHKLGKCGSCVYNMMGKR
EKKLGEFGKAKGSRAIWYMWLGARYLEFEALGFLNEDHWFSRENSYSGVEGEGLHKLGYILRDISKI
PGGAMYADDTAGWDTRITEDDLHNEEKIIQQMDPEHRQLANAIFKLTYQNKVVKVQRPTPTGTVM
DIISRKDQRGSGQVGTYGLNTFTNMEAQLVRQMEGEGVLTKADLENPHLLEKKITQWLETKGVERL
KRMAISGDDCVVKPIDDRFANALLALNDMGKVRKDIPQWQPSKGWHDWQQVPFCSHHFHELIMK
DGRKLVVPCRPQDELIGRARISQGAGWSLRETACLGKAYAQMWSLMYFHRRDLRLASNAICSAVPV
HWVPTSRTTWSIHAHHQWMTTEDMLTVWNRVWIEENPWMEDKTPVTTWENVPYLGKREDQW
CGSLIGLTSRATWAQNIPTAIQQVRSLIGNEEFLDYMPSMKRFRKEEESEGAIW
11111110000000000000000000000000000000000011111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
11111111111000000000000000000000000000000011111111111111111111000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000111111111111111111
>DM_train108
MAEQLVEAPAYARTLDRAVEYLLSCQKDEGYWWGPLLSNVTMEAEYVLLCHILDRVDRDRMEKIRR
YLLHEQREDGTWALYPGGPPDLDTTIEAYVALKYIGMSRDEEPMQKALRFIQSQGGIESSRVFTRMW
LALVGEYPWEKVPMVPPEIMFLGKRMPLNIYEFGSWARATVVALSIVMSRQPVFPLPERARVPELYE
TDVPPRRRGAKGGGGWIFDALDRALHGYQKLSVHPFRRAAEIRALDWLLERQAGDGSWGGIQPPW
FYALIALKILDMTQHPAFIKGWEGLELYGVELDYGGWMFQASISPVWDTGLAVLALRAAGLPADHDR
LVKAGEWLLDRQITVPGDWAVKRPNLKPGGFAFQFDNVYYPDVCDTAVVVWALNTLRLPDERRRR
DAMTKGFRWIVGMQSSNGGWGAYDVDNTSDLPNHIPFCDFGEVTDPPSEDVTAHVLECFGSFGYD
DAWKVIRRAVEYLKREQKPDGSWFGRWGVNYLYGTGAVVSALKAVGIDTREPYIQKALDWVEQHQ
NPDGGWGEDCRSYEDPAYAGKGASTPSQTAWALMALIAGGRAESEAARRGVQYLVETQRPDGGWD
EPYYTGTGFPGDFYLGYTMYRHVFPTLALGRYKQAIERR
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train110
GELMPPQLQNGLNLSAKVVQGSLDSLPQAVREFLENNAELCQPDHIHICDGSEEENGRLLGQMEEE
GILRRLKKYDNCWLALTDPRDVARIESKTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAFNARF
PGCMKGRTMYVIPFSMGPLGSPLSKIGIELTDSPYVVASMRIMTRMGTPVLEALGDGEFVKCLHSVGC
PLPLQKPLVNNWPCNPELTLIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHM
LVLGITNPEGEKKYLAAAFPSACGKTNLAMMNPSLPGWKVECVGDDIAWMKFDAQGHLRAINPEN
GFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEWSSEDGE
PCAHPNSRFCTPASQCPIIDAAWESPEGVPIEGIIFGGRRPAGVPLVYEALSWQHGVFVGAAMRSEAT
AAAEHKGKIIMHDPFAMRPFFGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKDKEGKFLWPG
FGENSRVLEWMFNRIDGKASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEFWDKEVEDIEKYL
VDQVNADLPCEIEREILALKQRISQM
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011111111000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>DM_train112
STIRIGGAAVNQTPIDWENNVKNILDAIEEAKNANVEILCLPELCITGYGCEDLFLTDWVAETAIEYCF
EIAASCTDITVSLGLPMRIAGITYNCVCLVENGIVKGFSAKQFLANEGVHYETRWFTAWPRNHTTTFL
YNDVKYPFGDVLYNVKDARIGFEICEDAWRTDRVGIRHYEKGATLVLNPSASHFAFGKSAIRYDLVIG
GSERFDCTYVYANLLGNEAGRMIYDGEVLIAHKGKLIQRNDRLSFKNVNLIYADIATDSAETPETVLT
QDDLEKEFEFWEATSLGLFDYMRKSRSKGFVLSLSGGADSSACAIMVAEMIRKGLKELGLTAFLQKS
NMETLFDLPALQHLPFEEQAKKITAVFLTTAYQSTRNSGDETYTSAKTLAESIGATFYNWSVDEEIEQ
YKATIENVIERPLTWEKDDITLQNIQARGRAPIIWMLTNVKQALLITTSNRSEGDVGYATMDGDTAG
GIAPIAGVDKDFIRSWLRWAEKNRNQHGLHIVNKLAPTAELRPSEYTQTDERDLMPYDVLARIERK
AIKERLSPVQVYTALLTEGPYTKNEFKYWVKKFFRLWSINQWKRERLAPSFHMDDFNIDPRSWYRF
PILSSGFAKELNDLDQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111111111100000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000111111111111111111100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000
>DM_train115
MYGWWGRILRVNLTTGEVKVQEYPEEVAKKFIGGRGLAAWILWNEARGVEPLSPENKLIFAAGPFN
GLPTPSGGKLVVAAKSPLTGGYGDGNLGTMASVHLRRAGYDALVVEGKAKKPVYIYIEDDNVSILSAE
GLWGKTTFETERELKEIHGKNVGVLTIGPAGENLVKYAVVISQEGRAAGRPGMGAVMGSKKLKAVVI
RGTKEIPVADKEELKKLSQEAYNEILNSPGYPFWKRQGTMAAVEWCNTNYALPTRNFSDGYFEFAR
SIDGYTMEGMKVQQRGCPYCNMPCGNVVLDAEGQESELDYENVALLGSNLGIGKLNEVSVLNRIAD
EMGMDTISLGVSIAHVMEAVERGILKEGPTFGDFKGAKQLALDIAYRKGELGNLAAEGVKAMAEKLG
THDFAMHVKGLEVSGYNCYIYPAMALAYGTSAIGAHHKEAWVIAWEIGTAPIEGEKAEKVEYKISYD
PIKAQKVVELQRLRGGLFEMLTACRLPWVEVGLSLDYYPKLLKAITGVTYTWDDLYKAADRVYSLIR
AYWVREFNGKWDRKMDYPPKRWFTEGLKSGPHKGEHLDEKKYDELLSEYYRIRGWDERGIPKKE
TLKELDLDFVIPELEKVTNLE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train116
MKPKKRQMEYLTRGLIAVQTEQGVFVSWRFLGTDHETTAFHLYRDGKRITRDPIAESTNFLDQNGT

ADSVYQVAAVNKGREEKLSKKARVWQENVLEVPLAKPEGGVTPDGKPYTYSANDASVGDIDGDGEY
EMILKWDPSNSKDNAHDGYTGEVLIDAYKLDGTFLWRINLGRNIRAGAHYTQFMVYDLDGDGKAEI
AMKTADGTTDGKGHIIGDEQADFRNEQGRILSGPEYLTVFKGETGEALTTVEYEPPRGKLEDWGDGY
GNRMDRFLAGTAYLDGERPSLVMARGYYTRTVLVAYDFRNGRLKKRWVFDSNQPGHEAYAGQGNH
SLSVADVDGDGKDEIIYGAMAVDHDGTGLYSTGLGHGDAMHVGDLDPSRKGLEVFQVHEDATKPYG
LSLRDAGTGEILWGVHAGTDVGRGMAAHIDPSYKGSLVWGIDPPGNDGMSYGLFTSKGEKISDKAPS
SANFAIWWDGDLVRELLDHDWDGTIGRPKIEKWDAENGCLKTIFQPAGVLSNNGTKGNPVLQANL
FGDWREEVIWRTEDSSALRIYTTTHLTRHCFYTLMHDPVYRLGIAWQNTAYNQPPHTSFYLGTGM
KKPPKPALYIAGSKAEAPL
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111111
>DM_train117
MRYIAGIDIGNSSTEVALATLDEAGALTITHSALAETTGIKGTLRNVFGIQEALALVARGAGIAVSDISLI
RINEATPVIGDVAMETITETIITESTMIGHNPKTPGGAGLGTGITITPQELLTRPADAPYILVVSSAFDF
ADIASVINASLRAGYQITGVILQRDDGVLVSNRLEKPLPIVDEVLYIDRIPLGMLAAIEVAVPGKVIETLS
NPYGIATVFNLSPEETKNIVPMARALIGNRSAVVVKTPSGDVKARAIPAGNLELLAQGRSVRVDVAAG
AEAIMKAVDGCGRLDNVTGESGTNIGGMLEHVRQTMAELTNKPSSEIFIQDLLAVDTSVPVSVTGGL
AGEFSLEQAVGIASMVKSDRLQMAMIAREIEQKLNIDVQIGGAEAEAAILGALTTPGTTRPLAILDLG
AGSTDASIINPKGDIIATHLAGAGDMVTMIIARELGLEDRYLAEEIKKYPLAKVESLFHLRHEDGSVQF
FSTPLPPAVFARVCVVKADELVPLPGDLALEKVRAIRRSAKERVFVTNALRALRQVSPTGNIRDIPFV
VLVGGSSLDFEVPQLVTDALAHYRLVAGRGNIRGSEGPRNAVATGLILSWHKEFAHER
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000111111
>DM_train120
MAKKVNWYVSCSPRSPEKIQPELKVLANFEGSYWKGVKGYKAQEAFAKELAALPQFLGTTYKKEAA
FSTRDRVAPMKTYGFVFVDEEGYLRITEAGKMLANNRRPKDVFLKQLVKWQYPSFQHKGKEYPEEE
WSINPLVFVLSLLKKVGGLSKLDIAMFCLTATNNNQVDEIAEEIMQFRNEREKIKGQNKKLEFTENYF
FKRFEKIYGNVGKIREGKSDSSHKSKIETKMRNARDVADATTRYFRYTGLFVARGNQLVLNPEKSDLI
DEIISSSKVVKNYTRVEEFHEYYGNPSLPQFSFETKEQLLDLAHRIRDENTRLAEQLVEHFPNVKVEI
QVLEDIYNSLNKKVDVETLKDVIYHAKELQLELKKKKLQADFNDPRQLEEVIDLLEVYHEKKNVIEE

KIKARFIANKNTVFEWLTWNGFIILGNALEYKNNFVIDEELQPVTHAAGNQPDMEIIYEDFIVLGEV
TTSKGATQFKMESEPVTRHYLNKKKELEKQGVEKELYCLFIAPEINKNTFEEFMKYNIVQNTRIIPLS
LKQFNMLLMVQKKLIEKGRRLSSYDIKNLMVSLYRTTIECERKYTQIKAGLEETLNNWVVDKEVRF
00000000000000000000000000000000000000000000000000000001111111000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train121
MASEIHMTGPMCLIENTNGRLMANPEALKILSAITQPMVVVAIVGLYRTGKSYLMNKLAGKKKGFSL
GSTVQSHTKGIWMWCVPHPKKPGHILVLLDTEGLGDVEKGDNQNDSWIFALAVLLSSTFVYNSIGTI
NQQAMDQLYYVTELTHRIRSKSSPDENENEVEDSADFVSFFPDFVWTLRDFSLDLEADGQPLTPDE
YLTYSLKLKKGTSQKDETFNLPRLCIRKFFPKKKCFVFDRPVHRRKLAQLEKLQDEELDPEFVQQVA
DFCSYIFSNSKTKTLSGGIQVNGPRLESLVLTYVNAISSGDLPCMENAVLALAQIENSAAVQKAIAHYE
QQMGQKVQLPTESLQELLDLHRDSEREAIEVFIRSSFKDVDHLFQKELAAQLEKKRDDFCKQNQEA
SSDRCSGLLQVIFSPLEEEVKAGIYSKPGGYRLFVQKLQDLKKKYYEEPRKGIQAEEILQTYLKSKESM
TDAILQTDQTLTEKEKEIEVERVKAESAQASAKMLHEMQRKNEQMMEQKERSYQEHLKQLTEKME
NDRVQLLKEQERTLALKLQEQEQLLKEGFQKESRIMKNEIQDLQTKMRRRKACTIS
11111000000000000000000000000000000000000000000000000000000111111111
11000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111000000000000000000000111100000000000000000000
00000000000000000000000000001111111111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111111
>DM_train122
MALKTAVHEKIMNDVVLAVKKNAEWKVLIVDQLSMRMVSACCKMHEIMSEGITLVEDINRRREPLP
LLEAVYLITPTEESVKCLMADFQNPDNPQYRGAHIFFTEACPEELFKELCKSTTARFIKTLKEINIAFL
PYESQIFSLDSPDTFQVYYNPSRAQGGIPNKERCAEQIATLCATLGEYPSVRYRSDFDENASFAQLVQQ
KLDAYRADDPTMGEGPQKDRSQLLILDRGFDPISPLLHELTFQAMAYDLLPIENDVYKYVNTGGNEV
PEKEVLLDEKDDLWVEMRHQHIAVVSQNVTKKLKQFADEKRMGTAADKAGIKDLSQMLKKMPQY
QKELSKYSTHLHLAEDCMKQYQQHVDKLCKVEQDLAMGTDADGEKIRDHMRNIVPILLDQKISAYD
KIRIILLYIIHKGGISEENLAKLVQHAHIPAEEKWIINDMQNLGVPIIQDGGRRKIPQPYHTHNRKERQ
ADHTYQMSRWTPYMKDIMEAAVEDKLDTRHYPFLNGGGPRPSCQQPVSVRYGHWHKDKGQASYK
SGPRLIIFVVGGISYSEMRSAYEVTQTAKNNWEVILGSTHILTPEGLLRDLRKISNP
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000001111111100000000000
000000000000000000000000000011111111111100000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000001111111111111111111111111100000000000000000000000000000000
00000000000000000000
>DM_train123
IETGYTPIDISLSLTQFLLSEFVPGAGFVLGLVDIIWGIFGPSQWDAFLVQIEQLINQRIEEFARNQAISR
LEGLSNLYQIYAESFREWEADPTNPALREEMRIQFNDMNSALTTAIPLLAVQNYQVPLLSVYVQAANL
HLSVLRDVSVFGQRWGFDAATINSRYNDLTRLIGNYTDYAVRWYNTGLERVWGPDSRDWVRYNQF
RRELTLTVLDIVALFSNYDSRRYPIRTVSQLTREIYTNPVLENFDGSFRGMAQRIEQNIRQPHLMDILN
SITIYTDVHRGFNYWSGHQITASPVGFSGPEFAFPLFGNAGNAAPPVLVSLTGLGIFRTLSSPLYRRIIL
GSGPNNQELFVLDGTEFSFASLTTNLPSTIYRQRGTVDSLDVIPPQDNSVPPRAGFSHRLSHVTMLSQ
AAGAVYTLRAPTFSWQHRSAEFNNIIPSSQITQIPLTKSTNLGSGTSVVKGPGFTGGDILRRTSPGQIS
TLRVNITAPLSQRYRVRIRYASTTNLQFHTSIDGRPINQGNFSATMSSGSNLQSGSFRTVGFTTPFNFS
NGSSVFTLSAHVFNSGNEVYIDRIEFVPAEVTFEAEYDLER
111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111111
>DM_train124
LVTDEAEASKFVEEYDRTSQVVWNEYAEANWNYNTNITTETSKILLQKNMQIANHTLKYGTQARK
FDVNQLQNTTIKRIIKKVQDLERAALPAQELEEYNKILLDMETTYSVATVCHPNGSCLQLEPDLTNV
MATSRKYEDLLWAWEGWRDKAGRAILQFYPKYVELINQAARLNGYVDAGDSWRSMYETPSLEQDL
ERLFQELQPLYLNLHAYVRRALHRHYGAQHINLEGPIPAHLLGNMWAQTWSNIYDLVVPFPSAPSM
DTTEAMLKQGWTPRRMFKEADDFFTSLGLLPVPPEFWNKSMLEKPTDGREVVCHASAWDFYNGK
DFRIKQCTTVNLEDLVVAHHEMGHIQYFMQYKDLPVALREGANPGFHEAIGDVLALSVSTPKHLHSL
NLLSSEGGSDEHDINFLMKMALDKIAFIPFSYLVDQWRWRVFDGSITKENYNQEWWSLRLKYQGLC
PPVPRTQGDFDPGAKFHIPSSVPYIRYFVSFIIQFQFHEALCQAAGHTGPLHKCDIYQSKEAGQRLATA
MKLGFSRPWPEAMQLITGQPNMSASAMLSYFKPLLDWLRTENELHGEKLGWPQYNWTPNS
111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011110000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111

>DM_train125
DAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLVNEVTEFAKTCVADESAENCDKSLH
TLFGDKLCTVATLRETYGEMADCCAKQEPERNECFLQHKDDNPNLPRLVRPEVDVMCTAFHDNEE
TFLKKYLYEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDELRDEGKASSAKQRLKC
ASLQKFGERAFKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLECADDRADLAKYICEN
QDSISSKLKECCEKPLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYA
RRHPDYSVVLLLRLAKTYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCELFEQLGEYK
FQNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCKHPEAKRMPCAEDYLSVVLNQLCVLHEKTPV
SDRVTKCCTESLVNRRPCFSALEVDETYVPKEFNAETFTFHADICTLSEKERQIKKQTALVELVKHKP
KATKEQLKAVMDDFAAFVEKCCKADDKETCFAEEGKKLVAASQAALGL
11110000000000000000000000000000000000000000000000000000000000000000
00000111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01111111111111111
>DM_train126
MEMISNNLNWFVGVVEDRMDPLKLGRVRVRVVGLHPPQRAQGDVMGIPTEKLPWMSVIQPITSAA
MSGIGGSVTGPVEGTRVYGHFLDKWKTNGIVLGTYGGIVREKPNRLEGFSDPTGQYPRRLGNDTNV
LNQGGEVGYDSSSNVIQDSNLDTAINPDDRPLSEIPTDDNPNMSMAEMLRRDEGLRLKVYWDTEG
YPTIGIGHLIMKQPVRDMAQINKVLSKQVGREITGNPGSITMEEATTLFERDLADMQRDIKSHSKVG
PVWQAVNRSRQMALENMAFQMGVGGVAKFNTMLTAMLAGDWEKAYKAGRDSLWYQQTKGRASR
VTMIILTGNLESYGVEVKTPARSLSAMAATVAKSSDPADPPIPNDSRILFKEPVSSYKGEYPYVHTMET
ESGHIQEFDDTPGQERYRLVHPTGTYEEVSPSGRRTRKTVDNLYDITNADGNFLVAGDKKTNVGGSE
IYYNMDNRLHQIDGSNTIFVRGDETKTVEGNGTILVKGNVTIIVEGNADITVKGDATTLVEGNQTNTV
NGNLSWKVAGTVDWDVGGDWTEKMASMSSISSGQYTIDGSRIDIGSVDHHHHHH
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000001111
>DM_train127
GAMGSPKEHIDLYQQIKWNGWGDTRKFLHQLKPSGTIAMTTPEVSSVPLPSLRGFIKKELTLPGEED
KPFVLDETPALQIENIHVDPPKQYPEFVRELKAFFLPDQLKDDKLARITHTFGKSLRDLIRVRIGQVK
NAPDLIVLPHSHEEVERLVQLAHKYNVVIIPMGGGSNIVGAIEPVSNERFTVSIDMRRMNKVLWVDR
REMTACIQVGIMGPELEKQLHKQGVSLGHDPDSFEFSTLGGWLATCSSGHQSDKYGDIEDMAVSFRT
VTPTGTLELRNGARSGAGINYKHIILGSEGTLGIITEAVMKVHAVPQAVEYYGFLFPTFAHAVSALQQI

RSSEVIPTMIRVYDPEETQLSFAWKPSKGAVSEFTSAMVKKYLHYIRSFDFKNVCLSIIGFEGPKKVVD
FHRTSVFDILSKNAAFGLGSAPGKTWAEKRYDLPYIRDFLLDHNMWVDVAETTVSYANLQTLWKDA
KQTFVKHFKDQGIPAWICAHISHTYTNGVCLYFIFASKQNENKDMAQYIEAKKLMTDIIFKYGGSLSH
HHGVGYEHVPWMTRYATRGWINVYRSLKETIDPKDICNPRKLI
00000000000000000000000000000000000000000000000000000000111111111100
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111
10000000000000000000000000000000000000000000000000000000000000000000
00000000001111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111100000000000000000001111111111111111111000000000
0000000000000011
>DM_train128
PVFSADPGAPAPVNPCCYYPCQHQGICVRFGLDRYQCDCTRTGYSGPNCTIPEIWTWLRTTLRPSPS
FIHFLLTHGRWLWDFVNATFIRDTLMRLVLTVRSNLIPSPPTYNIAHDYISWESFSNVSYYTRILPSVP
RDCPTPMGTKGKKQLPDAEFLSRRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFKTSGKMGPGFTK
ALGHGVDLGHIYGDNLERQYQLRLFKDGKLKYQMLNGEVYPPSVEEAPVLMHYPRGIPPQSQMAVG
QEVFGLLPGLMLYATIWLREHNRVCDLLKAEHPTWGDEQLFQTARLILIGETIKIVIEEYVQQLSGYFL
QLKFDPELLFGAQFQYRNRIAMEFNQLYHWHPLMPDSFRVGPQDYSYEQFLFNTSMLVDYGVEALV
DAFSRQPAGRIGGGRNIDHHILHVAVDVIKESRVLRLQPFNEYRKRFGMKPYTSFQELTGEKEMAAE
LEELYGDIDALEFYPGLLLEKCHPNSIFGESMIEMGAPFSLKGLLGNPICSPEYWKASTFGGEVGFNLV
KTATLKKLVCLNTKTCPYVSFHVPDPRQEDRPGVERPPTEL
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111
111111111111
>DM_train129
MVSKIRTFGWVQNPGKFENLKRVVQVFDRNSKVHNEVKNIKIPTLVKESKIQKELVAIMNQHDLIYT
YKELVGTGTSIRSEAPCDAIIQATIADQGNKKGYIDNWSSDGFLRWAHALGFIEYINKSDSFVITDVGL
AYSKSADGSAIEKEILIEAISSYPPAIRILTLLEDGQHLTKFDLGKNLGFSGESGFTSLPEGILLDTLANA
MPKDKGEIRNNWEGSSDKYARMIGGWLDKLGLVKQGKKEFIIPTLGKPDNKEFISHAFKITGEGLKV
LRRAKGSTKFTRVPKRVYWEMLATNLTDKEYVRTRRALILEILIKAGSLKIEQIQDNLKKLGFDEVIE
TIENDIKGLINTGIFIEIKGRFYQLKDHILQFVIPNRLGKPDLVKSELEEKKSELRHKLKYVPHEYIELIE
IARNSTQDRILEMKVMEFFMKVYGYRGKHLGGSRKPDGAIYTVGSPIDYGVIVDTKAYSGGYNLPIGQ
ADEMQRYVEENQTRNKHINPNEWWKVYPSSVTEFKFLFVSGHFKGNYKAQLTRLNHITNCNGAVL
SVEELLIGGEMIKAGTLTLEEVRRKFNNGEINF
11110000000000000000000000000000000000000000000000000000000000000000
00000111110000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111110000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000111110000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train130
SMSYTWTGALITPCAAEESKLPINALSNSLLRHHNMVYATTSRSAGLRQKKVTFDRLQVLDDHYRD
VLKEMKAKASTVKAKLLSVEEACKLTPPHSAKSKFGYGAKDVRNLSSKAVNHIHSVWKDLLEDTVT
PIDTTIMAKNEVFCVQPEKGGRKPARLIVFPDLGVRVCEKMALYDVVSTLPQVVMGSSYGFQYSPGQ
RVEFLVNTWKSKKNPMGFSYDTRCFDSTVTENDIRVEESIYQCCDLAPEARQAIKSLTERLYIGGPLT
NSKGQNCGYRRCRASGVLTTSCGNTLTCYLKASAACRAAKLQDCTMLVNGDDLVVICESAGTQEDAA
SLRVFTEAMTRYSAPPGDPPQPEYDLELITSCSSNVSVAHDASGKRVYYLTRDPTTPLARAAWETAR
HTPVNSWLGNIIMYAPTLWARMILMTHFFSILLAQEQLEKALDCQIYGACYSIEPLDLPQIIERLHGLS
AFSLHSYSPGEINRVASCLRKLGVPPLRVWRHRARSVRARLLSQGGRAATCGKYLFNWAVKTKLKLT
PIPAASQLDLSGWFVAGYSGGDIYHSLSRARPRGSHHHHHH
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001110000000000111111111111
1111111111
>DM_train131
GSNQSSSTSTKKLKAGNFDVAYQNPDKAIKGGNLKVAYQSDSPMKAQWLSGLSNDATFATMSGPGG
GQDGLFFTDSGFKFIKGGAADVALDKESKTATITLRKDLKWSDGSEVTAKDYEFTYETIANPAYGSDR
WTDSLANIVGLSDYHTGKAKTISGITFPDGENGKVIKVQFKEMKPGMTQSGNGYFLETVAPYQYLKD
VAPKDLASSPKTTTKPLVTGPFKPENVVAGESIKYVPNPYYWGEKPKLNSITYEVVSTAKSVAALSSS
KYDIINGMVSSQYKQVKNLKGYKVLGQQAMYISLMYYNLGHYDAKNSINVQDRKTPLQDQNVRQAI
GYARNVAEVDNKFSNGLSTPANSLIPPIFKQFTSSSVKGYEKQDLDKANKLLDEDGWKLNKSTGYRE
KDGKELSLVYAARVGDANAETIAQNYIQQWKKIGVKVSLYNGKLMEFNSWVDHMTTPPGANDWDI
TDGSWSLASEPSQQDLFSAAAPYNFGHFNDSEITKDLNDIDSAKSENPTYRKAAFVKYQEDMNKKA
YVIPTNFMLNYTPVNKRVVGMTLDYGAMNTWSEIGVSSAKLATK
111111111111111111111111111111000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

011111111
>DM_train132
MKHMPRKMYSCAFETTTKVEDCRVWAYGYMNIEDHSEYKIGNSLDEFMAWVLKVQADLYFHNLK
FAGAFIINWLERNGFKWSADGLPNTYNTIISRMGQWYMIDICLGYKGKRKIHTVIYDSLKKLPFPVK
KIAKDFKLTVLKGDIDYHKERPVGYKITPEEYAYIKNDIQIIAEALLIQFKQGLDRMTAGSDSLKGFKDI
ITTKKFKKVFPTLSLGLDKEVRYAYRGGFTWLNDRFKEKEIGEGMVFDVNSLYPAQMYSRLLPYGEPI
VFEGKYVWDEDYPLHIQHIRCEFELKEGYIPTIQIKRSRFYKGNEYLKSSGGEIADLWLSNVDLELMK
EHYDLYNVEYISGLKFKATTGLFKDFIDKWTYIKTTSEGAIKQLAKLMLNSLYGKFASNPDVTGKVPY
LKENGALGFRLGEEETKDPVYTPMGVFITAWARYTTITAAQACYDRIIYCDTDSIHLTGTEIPDVIKDI
VDPKKLGYWAHESTFKRAKYLRQKTYIQDIYMKEVDGKLVEGSPDDYTDIKFSVKCAGMTDKIKKE
VTFENFKVGFSRKMKPKPVQVPGGVVLVDDTFTIK
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train133
HGTTANTHCGADFCTWWHDSGEINTQTPVQPGNVRQSHKYSVQVSLAGTNNFHDSFVYESIPRNG
NGRIYAPTDPPNSNTLDSSVDDGISIEPSIGLNMAWSQFEYSHDVDVKILATDGSSLGSPSDVVIRPVS
ISYAISQSDDGGIVIRVPADANGRKFSVEFKTDLYTFLSDGNEYVTSGGSVVGVEPTNALVIFASPFLPS
GMIPHMTPDNTQTMTPGPINNGDWGAKSILYFPPGVYWMNQDQSGNSGKLGSNHIRLNSNTYWV
YLAPGAYVKGAIEYFTKQNFYATGHGILSGENYVYQANAGDNYIAVKSDSTSLRMWWHNNLGGGQT
WYCVGPTINAPPFNTMDFNGNSGISSQISDYKQVGAFFFQTDGPEIYPNSVVHDVFWHVNDDAIKIY
YSGASVSRATIWKCHNDPIIQMGWTSRDISGVTIDTLNVIHTRYIKSETVVPSAIIGASPFYASGMSPDS
RKSISMTVSNVVCEGLCPSLFRITPLQNYKNFVVKNVAFPDGLQTNSIGTGESIIPAASGLTMGLAISA
WTIGGQKVTMENFQANSLGQFNIDGSYWGEWQIS
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train137
SNISRQAYADMFGPTVGDKVRLADTELWIEVEDDLTTYGEEVKFGGGKVIRDGMGQGQMLAADCVD
LVLTNALIVDHWGIVKADIGVKDGRIFAIGKAGNPDIQPNVTIPIGAATEVIAAEGKIVTAGGIDTHIH
WICPQQAEEALVSGVTTMVGGGTGPAAGTHATTCTPGPWYISRMLQAADSLPVNIGLLGKGNVSQP
DALREQVAAGVIGLCIHEDWGATPAAIDCALTVADEMDIQVALHSDTLNESGFVEDTLAAIGGRTIHT

FHTEGAGGGHAPDIITACAHPNILPSSTNPTLPYTLNTIDEHLDMLMVAHHLDPDIAEDVAFAESRIR
RETIAAEDVLHDLGAFSLTSSDSQAMGRVGEVILRTWQVAHRMKVQRGALAEETGDNDNFRVKRYI
AKYTINPALTHGIAHEVGSIEVGKLADLVVWSPAFFGVKPATVIKGGMIAIAPMGDINASIPTPQPVHY
RPMFGALGSARHHCRLTFLSQAAAANGVAERLNLRSAIAVVKGCRTVQKADMVHNSLQPNITVDAQ
TYEVRVDGELITSEPADVLPMAQRYFLF
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111111111111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train138
GHMNIESTLNSVASVKDLANEASKYEIILQKGINQVGLKQYTQVVHKLDDMLEDIQSGQANREENSE
FHGILTHLEQLIKRSEAQLRVYFISILNSIKPFDPQINITKKMPFPYYEDQQLGALSWILDYFHGNSEGS
IIQDILVGERSKLILKCMAFLEPFAKEISTAKNAPYEKGSSGMNSYTEALLGFIANEKSLVDDLYSQYTE
SKPHVLSQILSPLISAYAKLFGANLKIVRSNLENFGFFSFELVESINDVKKSLRGKELQNYNLLQDCTQ
EVRQVTQSLFRDAIDRIIKKANSISTIPSNNGVTEATVDTMSRLRKFSEYKNGCLGAMDNITRENWL
PSNYKEKEYTLQNEALNWEDHNVLLSCFISDCIDTLAVNLERKAQIALMPNQEPDVANPNSSKNKH
KQRIGFFILMNLTLVEQIVEKSELNLMLAGEGHSRLERLKKRYISYMVSDWRDLTANLMDSVFIDSSG
KKSKDKEQIKEKFRKFNEGFEDLVSKTKQYKLSDPSLKVTLKSEIISLVMPMYERFYSRYKDSFKNPR
KHIKYTPDELTTVLNQLVR
11111110000000000000000000000000000000000000000000000111100000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111111000000000000000000000000000000000000
00000000000000000000011111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train140
MTTAARRPAPTTAGAGWDAGVGALVNPSRRRGGTLRLVSSADVDSLDPARTYYVWVWLLQRLLNR
TLMAYPTDPGPAGLVPAPDLAEGPGEVSDGGRTWTYRLRRGLRYDDGTPITSDDVRHAVQRVFAQD
VLPGGPTYLIPLLDDPERPYPGPYRTDEPLRSVLTPDEHTIVFRLTRPFSDFDHLMAQPCAAPVPRRS
DTGADYGRDPRSSGPYRVARHEPDTLLHLERNPHWDRATDPIRPALPDRVELTIGLDVDVLDARLIA
GEFDINLEGRGLQHAAQRRATADEVLRSHTDNPRTSFLHFVAMQPHIPPFDNVHVRRAVQYAADKI
LLQDARGGPVNGGDLTTALFPPTLPAHQDLDLYPTGPDLRGDLDAARAELAAAGLPDGFRAVIGTQR
GKFRLVADAVVESLARVGIELTVKELDVATYFSLGAGHPETVREHGLGLLVTDWGADFPTEYGFLAPL
VDGRQIKRNGGNWNLPELDDPEVNALIDETLHTTDPAARAELWRAVERRVMEHAVLLPLVHDKTL
HFRNPWVTNVYVHPAFGLYDIQAMGLAEED
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train141
STGPVAPLPTPPNFPNDIALFQQAYQNWSKEIMLDATWVCSPKTPQDVVRLANWAHEHDYKIRPRG
AMAGWTPLTVEKGANVEKVILADTMTHLNGITVNTGGPVATVTAGAGASIEAIVTELQKHDLGWAN
LPAPGVLSIGGALAVNAHGAALPAVGQTTLPGHTYGSLSNLVTELTAVVWNGTTYALETYQRNDPRIT
PLLTNLGRCFLTSVTMQAGPNFRQRCQSYTDIPWRELFAPKGADGRTFEKFVAESGGAEAIWYPFTE
KPWMKVWTVSPTKPDSSNEVGSLGSAGSLVGKPPQAREVSGPYNYIFSDNLPEPITDMIGAINAGNP
GIAPLFGPAMYEITKLGLAATNANDIWGWSKDVQFYIKATTLRLTEGGGAVVTSRANIATVINDFTE
WFHERIEFYRAKGEFPLNGPVEIRCCGLDQAADVKVPSVGPPTISATRPRPDHPDWDVAIWLNVLG
VPGTPGMFEFYREMEQWMRSHYNNDDATFRPEWSKGWAFGPDPYTDNDIVTNKMRATYIEGVPT
TENWDTARARYNQIDPHRVFTNGFMDKLLP
11111000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111111
11111111111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train142
YDPDQYSIEADKKFKYSVKLSDYPTLQDAASAAVDGLLIDRDYNFYGGETVDFGGKVLTIECKAKFIG
DGNLIFTKLGKGSRIAGVFMESTTTPWVIKPWTDDNQWLTDAAAVVATLKQSKTDGYQPTVSDYVK
FPGIETLLPPNAKGQNITSTLEIRECIGVEVHRASGLMAGFLFRGCHFCKMVDANNPSGGKDGIITFE
NLSGDWGKGNYVIGGRTSYGSVSSAQFLRNNGGFERDGGVIGFTSYRAGGSGVKTWQGTVGSTTSR
NYNLQFRDSVVIYPVWDGFDLGADTDMNPELDRPGDYPITQYPLHQLPLNHLIDNLLVRGALGVGF
GMDGKGMYVSNITVEDCAGSGAYLLTHESVFTNIAIIDTNTKDFQANQIYISGACRVNGLRLIGIRSTD
GQSLTIDAPNSTVSGITGMVDPSRINVANLAEEGLGNIRANSFGYDSAAIKLRIHKLSKTLDSGALYSHI
NGGAGSGSAYTQLTAISGSTPDAVSLKVNHKDCRGAEIPFVPDIASDDFIKDSSCFLPYWENNSTSLKA
LVKKPNGELVRLTLATL
11111000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000011111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train143
MTTANTPVRPKSAIDAVADAYTEKLIELNPSFATTLGLPGHETEYQDYSPAGAAAHAEATRLALEALA
GLEPSDDVDAVTLDAMRERLGLELEIHQSGWDAADLNNIASPAQDIRAIFDLMPTDTVEHWEHIAG

RAANVPGAIEGYIASLRAAKDDRKVAAARQIRIVIEQTGRYAAEDGFFAKMAADASLGDAPLPAEVQ
DKLDAGTSAARSAYSALGAFLRDELLPVAPEKDAVGRERYSLASRSFIGAEVDLEETYAWGVQELERL
ISEQEKVAGQIKPGASIEEAKSILNNDPARQIKGTDALKAWMQELSDRAVSELADVHFDIPDVMKTLE
CMIAPTDEGGIYYTGPSDDFSRPGRMWWSVPAGEDTFTTWSETTTVFHEGVPGHHLQVATATYRR
ELLNNWRRNVCWVSGHGEGWALYAEQLMLELGYLKDPGDHMGMLDGQRMRAARVVFDIGVHLE
LPVPERWGTGTWTPEKGFDFLKANLDISEGQLQFEFTRYLGWPGQAPSYKVGQRLWEQIRAELESR
EGFDLKSFHSKALNIGSVGLDVLRRALL
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train144
MSKVPSDIEIAQAAKMKPVMELARGLGIQEDEVELYGKYKAKISLDVYRRLKDKPDGKLILVTAITPT
PAGEGKTTTSVGLTDALARLGKRVMVCLREPSLGPSFGIKGGAAGGGYAQVVPMEDINLHFTGDIHA
VTYAHNLLAAMVDNHLQQGNVLNIDPRTITWRRVIDLNERALRNIVIGLGGKANGVPRETGFDISVA
SEVMACLCLASDLMDLKERFSRKVVGYTYDGKPVTAGDLEAQGSMALLMKDAIKPNLVQTLENTPA
FIHGGPFANIAHGCNSIIATKTALKLADYVVTEAGFGADLGAEKFYDVKCRYAGFKPDATVIVATVRAL
KMHGGVPKSDLATENLEALREGFANLEKHIENIGKFGVPAVVAINAFPTDTEAELNLLYELCAKAGA
EVALSWAKGGEGGLELARKVLQTLESRPSNFHVLYNLDLSIKDKIAKIATEIYGADGVNYTAEADKAI
QRYESLGYGNLPVVMAKTQYSFSDDMTKLGRPRNFTITVREVRLSAGGRLIVPITGAIMTMPGLPKR
PAACNIDIDADGVITGLF
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train145
MSVSAFNRRWAAVILEALTRHGVRHICIAPGSRSTLLTLAAAENSAFIHHTHFDERGLGHLALGLAKV
SKQPVAVIVTSGTAVANLYPALIEAGLTGEKLILLTADRPPELIDCGANQAIRQPGMFASHPTHSISLPR
PTQDIPARWLVSTIDHALGTLHAGGVHINCPFAEPLYGEMDDTGLSWQQRLGDWWQDDKPWLRE
APRLESEKQRDWFFWRQKRGVVVAGRMSAEEGKKVALWAQTLGWPLIGDVLSQTGQPLPCADLW
LGNAKATSELQQAQIVVQLGSSLTGKRLLQWQASCEPEEYWIVDDIEGRLDPAHHRGRRLIANIADW
LELHPAEKRQPWCVEIPRLAEQAMQAVIARRDAFGEAQLAHRICDYLPEQGQLFVGNSLVVRLIDAL
SQLPAGYPVYSNRGASGIDGLLSTAAGVQRASGKPTLAIVGDLSALYDLNALALLRQVSAPLVLIVVNN
NGGQIFSLLPTPQSERERFYLMPQNVHFEHAAAMFELKYHRPQNWQELETAFADAWRTPTTTVIE
MVVNDTDGAQTLQQLLAQVSHL
10000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000110000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011111111111111111111100000000000
000000000000000000000000000000000000000000000000000000000000000000
>DM_train146
MKRSKRFAVLAQRPVNQDGLIGEWPEEGLIAMDSPFDPVSSVKVDNGLIVELDGKRRDQFDMIDRF
IADYAINVERTEQAMRLEAVEIARMLVDIHVSREEIIAITTAITPAKAVEVMAQMNVVEMMMALQKM
RARRTPSNQCHVTNLKDNPVQIAADAAEAGIRGFSEQETTVGIARYAPFNALALLVGSQCGRPGVLT
QCSVEEATELELGMRGLTSYAETVSVYGTEAVFTDGDDTPWSKAFLASAYASRGLKMRYTSGTGSEA
LMGYSESKSMLYLESRCIFITKGAGVQGLQNGAVSCIGMTGAVPSGIRAVLAENLIASMLDLEVASAND
QTFSHSDIRRTARTLMQMLPGTDFIFSGYSAVPNYDNMFAGSNFDAEDFDDYNILQRDLMVDGGLR
PVTEAETIAIRQKAARAIQAVFRELGLPPIADEEVEAATYAHGSNEMPPRNVVEDLSAVEEMMKRNI
TGLDIVGALSRSGFEDIASNILNMLRQRVTGDYLQTSAILDRQFEVVSAVNDINDYQGPGTGYRISAER
WAEIKNIPGVVQPDTIE
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train147
ANFNVPKLGVFPVAAVFDIDNVPEDSSATGSRWLPSIYQGGNYWGGGPQALHAQVSNFDSSNRLPY
NPRTENNPAGNCAFAFNPFGQYISNISSAQSVHRRIYGIDLNDEPLFSPNAASITNGGNPTMSQDTGY
HNIGPINTAYKAEIFRPVNPLPMSDTAPDPETLEPGQTEPLIKSDGVYSNSGIASFIFDRPVTEPNPN
WPPLPPPVIPIIYPTPALGIGAAAAYGFGYQVTVYRWEEIPVEFIADPETCPAQPTTDKVIIRTTDLNP
EGSPCAYEAGIILVRQTSNPMNAVAGRLVPYVEDIAVDIFLTGKFFTLNPPLRITNNYFADDEVKENTV
TIGNYTTTLSSAYYAVYKTDGYGGATCFIASGGAGISALVQLQDNSVLDVLYYSLPLSLGGSKAAIDEWV
ANNCGLFPMSGGLDKTTLLEIPRRQLEAINPQDGPGQYDLFILDDSGAYASFSSFIGYPEAAYYVAGAA
TFMDVENPDEIIFILRNGAGWYACEIGDALKIADDEFDSVDYFAYRGGVMFIGSARYTEGGDPLPIKY
RAIIPGLP
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001111111111111111111110000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>DM_train148

MNTSLFKQERQKYIPKLPNILKKDFNNISLVYGENTEAIQDRQALKEFFKNTYGLPIISFTEGESSLSFS
KALNIGIILSGGPAPGGHNVISGVFDAIKKFNPNSKLFGFKGGPLGLLENDKIELTESLINSYRNTGGFD
IVSSGRTKIETEEHYNKALFVAKENNLNAIIIIGGDDSNTNAAILAEYFKKNGENIQVIGVPKTIDADLR
NDHIEISFGFDSATKIYSELIGNLCRDAMSTKKYWHFVKLMGRSASHVALECALKTHPNICIVSEEVL
AKKKTLSEIIDEMVSVILKRSLNGDNFGVVIVPEGLIEFIPEVKSLMLELCDIFDKNEGEFKGLNIEKM
KEIFVAKLSDYMKGVYLSLPLFIQFELIKSILERDPHGNFNVSRVPTEKLFIEMIQSRLNDMKKRGEYK
GSFTPVDHFFGYEGRSAFPSNFDSDYCYSLGYNAVVLILNGLTGYMSCIKNLNLKPTDWIAGGVPLTM
LMNMEERYGEKKPVIKKALVDLEGRPFKEFVKNRDKWALNNLYLYPGPVQYFGSSEIVDEITETLKL
ELFK
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111000000000000
00000000000000000000000011111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train149
GSHMPVVHVIDVESGNLQSLTNAIEHLGYEVQLVKSPKDFNISGTSRLILPGVGNYGHFVDNLFNRGF
EKPIREYIESGKPIMGICVGLQALFAGSVESPKSTGLNYIDFKLSRFDDSEKPVPEIGWNSCIPSENLFF
GLDPYKRYYFVHSFAAILNSEKKKNLENDGWKIAKAKYGSEEFIAAVNKNNIFATQFHPEKSGKAGL
NVIENFLKQQSPPIPNYSAEEKELLMNDYSNYGLTRRIIACLDVRTNDQGDLVVTKGDQYDVREKSD
GKGVRNLGKPVQLAQKYYQQGADEVTFLNITSFRDCPLKDTPMLEVLKQAAKTVFVPLTVGGGIKDI
VDVDGTKIPALEVASLYFRSGADKVSIGTDAVYAAEKYYELGNRGDGTSPIETISKAYGAQAVVISVDP
KRVYVNSQADTKNKVFETEYPGPNGEKYCWYQCTIKGGRESRDLGVWELTRACEALGAGEILLNCID
KDGSNSGYDLELIEHVKDAVKIPVIASSGAGVPEHFEEAFLKTRADACLGAGMFHRGEFTVNDVKEY
LLEHGLKVRMDEE
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111111111111111111000000
00000000000000000011100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train151
MGDYDIPTTENLYFQGMTDLNKLVKELNDLGLTDVKEIVYNPSYEQLFEEETKPGLEGFDKGTLTTL
GAVAVDTGIFTGRSPKDKYIVCDETTKDTVWWNSEAAKNDNKPMTQETWKSLRELVAKQLSGKRL
FVVEGYCGASEKHRIGVRMVTEVAWQAHFVKNMFIRPTDEELKNFKADFTVLNGAKCTNPNWKEQ
GLNSENFVAFNITEGIQLIGGTWYGGEMKKGMFSMMNYFLPLKGVASMHCSANVGKDGDVAIFFGL
SGTGKTTLSTDPKRQLIGDDEHGWDESGVFNFEGGCYAKTINLSQENEPDIYGAIRRDALLENVVVR
ADGSVDFDDGSKTENTRVSYPIYHIDNIVRPVSKAGHATKVIFLTADAFGVLPPVSKLTPEQTEYYFLS
GFTAKLAGTERGVTEPTPTFSACFGAAFLSLHPIQYADVLVERMKASGAEAYLVNTGWNGTGKRISIK
DTRGIIDAILDGSIEKAEMGELPIFNLAIPKALPGVDPAILDPRDTYADKAQWQVKAEDLANRFVKNF

VKYTANPEAAKLVGAGPKA
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111111000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train152
MSALLLKPHKDLPRRTVLIVVMDGLGIGPEDDYDAVHMASTPFMDAHRRDNRHFRCVRAHGTAVG
LPTDADMGNSEVGHNALGAGRVALQGASLVDDAIKSGEIYTGEGYRYLHGAFSKEGSTLHLIGLLSDG
GVHSRDNQIYSIIEHAVKDGAKRIRVHALYDGRDVPDGSSFRFTDELEAVLAKVRQNGCDAAIASGGG
RMFVTMDRYDADWSIVERGWRAQVLGDARHFHSAKEAITTFREEDPKVTDQYYPPFIVVDEQDKP
LGTIEDGDAVLCVNFRGDRVIEMTRAFEDEDFNKFDRVRVPKVRYAGMMRYDGDLGIPNNFLVPPP
KLTRVSEEYLCGSGLNIFACSETQKFGHVTYFWNGNRSGKIDEKHETFKEVPSDRVQFNEKPRMQSA
AITEAAIEALKSGMYNVVRINFPNGDMVGHTGDLKATITGVEAVDESLAKLKDAVDSVNGVYIVTAD
HGNSDDMAQRDKKGKPMKDGNGNVLPLTSHTLSPVPVFIGGAGLDPRVAMRTDLPAAGLANVTAT
FINLLGFEAPEDYEPSLIYVEK
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train153
MSDMEKPWKEEEKREVLAGHARRQAPQAVDKGPVTGDQRISVTVVLRRQRGDELEAHVERQAAL
APHARVHLEREAFAASHGASLDDFAEIRKFAEAHGLTLDRAHVAAGTAVLSGPVDAVNQAFGVELRH
FDHPDGSYRSYVGDVRVPASIAPLIEAVLGLDTRPVARPHFRLRRRAEGEFEARSQSAAPTAYTPLDV
AQAYQFPEGLDGQGQCIAIIELGGGYDETSLAQYFASLGVSAPQVVSVSVDGATNQPTGDPNGPDGEV
ELDIEVAGALAPGAKIAVYFAPNTDAGFLNAITTAVHDPTHKPSIVSISWGGPEDSWAPASIAAMNRA
FLDAAALGVTVLAAAGDSGSTDGEQDGLYHVDFPAASPYVLACGGTRLVASAGRIERETVWNDGPD
GGSTGGGVSRIFPLPSWQERANVPPSANPGAGSGRGVPDVAGNADPATGYEVVIDGETTVIGGTAAVA
PLFAALVARINQKLGKPVGYLNPTLYQLPPEVFHDITEGNNDIANRARIYQAGPGWDPCTGLGSPIGI
RLLQALLPSASQAQP
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000001111111
>DM_train154
MKRREVLQAGMALGGLAGLGRALAQGGFTLTLVHTNDTHAHLEPVELTLSGEKTPVGGVARRVALF
DRVWARAKNPLFLDAGDVFQGTLYFNQYRGLADRYFMHRLRYRAMALGNHEFDLGPGPLADFLKG
ARFKVVSANVDASREPRLKGLFAPYAVVVVGGERVGIIGLTTPDTREISNPGPTVAFLDPYESAQKAVY
ELLAKGVNKIVVLSHLGYGEDLKLARRLVGVQVIVGGHSHTLLGSFPHKELSPAGPYPTVVKNPEGKD
VLVVQAWEWGKVVGLLEVTFDAKGELLAYKGEALLMTPEAAPEDFFAKEALLAYAQPVMALMQQVI
AEAKVDLVGERAVVRRRESNLGNLITDGMLWKTRNAGTQIALQNGGGIRASIPKGPITVGKVYEVLP
FGNTLVVMDLKGKEILAALENGVSQWENTAGRFLQVSGLRYAFDLSRPAGSRVVRVEVKTEKGYVPL
DLEATYRVVVNNFIANGGDGFTVLKEAQGYRVDTGFSDAESFMDYLKELKVVEAGLEGRIEVLNEPK
GERPAYFAYRVPGLVGV
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111111111
>DM_train155
MTQVAKKILVTCALPYANGSIHLGHMLEHIQADVWVRYQRMRGHEVNFICADDAHGTPIMLKAQQL
GITPEQMIGEMSQEHQTDFAGFNISYDNYHSTHSEENRQLSELIYSRLKENGFIKNRTISQLYDPEKG
MFLPDRFVKGTCPKCKSPDQYGDNCEVCGATYSPTELIEPKSVVSGATPVMRDSEHFFFDLPSFSEM
LQAWTRSGALQEQVANKMQEWFESGLQQWDISRDAPYFGFEIPNAPGKYFYVWLDAPIGYMGSFK
NLCDKRGDSVSFDEYWKKDSTAELYHFIGKDIVYFHSLFWPAMLEGSNFRKPSNLFVHGYVTVNGA
KMSKSRGTFIKASTWLNHFDADSLRYYYTAKLSSRIDDIDLNLEDFVQRVNADIVNKVVNLASRNAG
FINKRFDGVLASELADPQLYKTFTDAAEVIGEAWESREFGKAVREIMALADLANRYVDEQAPWVVA
KQEGRDADLQAICSMGINLFRVLMTYLKPVLPKLTERAEAFLNTELTWDGIQQPLLGHKVNPFKALY
NRIDMRQVEALVEASKEEV
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train158
PTVSATPYDYIIVGAGPGGIIAADRLSEAGKKVLLLERGGPSTKQTGGTYVAPWATSSGLTKFDIPGLF
ESLFTDSNPFWWCKDITVFAGCLVGGGTSVNGALYWYPNDGDFSSSVGWPSSWTNHAPYTSKLSSR
LPSTDHPSTDGQRYLEQSFNVVSQLLKGQGYNQATINDNPNYKDHVFGYSAFDFLNGKRAGPVATYL
QTALARPNFTFKTNVMVSNVVRNGSQILGVQTNDPTLGPNGFIPVTPKGRVILSAGAFGTSRILFQSG
IGPTDMIQTVQSNPTAAAALPPQNQWINLPVGMNAQDNPSINLVFTHPSIDAYENWADVWSNPRPA
DAAQYLANQSGVFAGASPKLNFWRAYSGSDGFTRYAQGTVRPGAASVNSSLPYNASQIFTITVYLSTG

IQSRGRIGIDAALRGTVLTPPWLVNPVDKTVLLQALHDVVSNIGSIPGLTMITPDVTQTLEEYVDAYDP
ATMNSNHWVSSTTIGSSPQSAVVDSNVKVFGTNNLFIVDAGIIPHLPTGNPQGTLMSAAEQAAAKIL
ALAGGP
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train159
MHIDNIENLSDREFDYIVVGGGSAGAAVAARLSEDPAVSVALVEAGPDDRGVPEVLQLDRWMELLES
GYDWDYPIEPQENGNSFMRHARAKVMGGCSSHNSCIAFWAPREDLDEWEAKYGATGWNAEAAW
PLYKRLETNEDAGPDAPHHGDSGPVHLMNVPPKDPTGVALLDACEQAGIPRAKFNTGTTVVNGAN
FFQINRRADGTRSSSSVSYIHPIVEQENFTLLTGLRARQLVFDADRRCTGVDIVDSAFGHTHRLTARN
EVVLSTGAIDTPKLLMLSGIGPAAHLAEHGIEVLVDSPGVGEHLQDHPEGVVQFEAKQPMVAESTQW
WEIGIFTPTEDGLDRPDLMMHYGSVPFDMNTLRHGYPTTENGFSLTPNVTHARSRGTVRLRSRDFR
DKPMVDPRYFTDPEGHDMRVMVAGIRKAREIAAQPAMAEWTGRELSPGVEAQTDEELQDYIRKTH
NTVYHPVGTVRMGAVEDEMSPLDPELRVKGVTGLRVADASVMPEHVTVNPNITVMMIGERCADLIR
SARAGETTTADAELSAALA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000111111111111111111111
>DM_train160
ASFPHRNLTWNDINFVHTTDTHGWYSGHINQPLYHANWGDFISFTTHMRRIAHSRNQDLLLIDSG
DRHDGNGLSDITSPNGLKSTPIFIKQDYDLLTIGNHELYLWENSKQEYETVVNHFQDKYVCSNVDIRL
DNGLFVPLGLKYKYFTTPIRGIRVMAFGFLFDFKRFNSGTRVTPMAETIHEPWFQEALKHEVDLIIIV
GHTPISHNWGEFYQVHQYLRQFFPDTIIQYFGGHSHIRDFTVFDSLSTGLQSGRYCETVGWTSVNLD
KADLNLPVRQRFSRSYIDFNTDSFKYHTNLDKEFDTAKGKLVSKLIRETRKELKLDTLIGYVKTNYYV
DYVPIDHPKSIFNLLALKILKTLPKSKHEERITIINTGSIRYDLYKGPYTIDSKFIVSPFENIWVNITVPK
SVATKVAAKLNDADYISASRLKPPHQYDLQVQDLSTSPHQAHFEMQEKLPKGYVTHDDFGADGDDT
LHRAVVNFPVPNVIQSVEINDEVDSPVNLVFYSFITPNIIWALKELNFSTEQVPTPYSDIYLGTLLNEF
VANN
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000001100000
00000000000001111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000
>DM_train161
MAAKEVKFNSDARDRMLKGVNILADAVKVTLGPKGRNVVIDKSFGAPRITKDGVSVAKEIELSDKFE
NMGAQMVREVASRTNDEAGDGTTTATVLAQAIVREGLKAVAAGMNPMDLKRGIDVATAKVVEAIKS
AARPVNDSSEVAQVGTISANGESFIGQQIAEAMQRVGNEGVITVEENKGMETEVEVVEGMQFDRGYL
SPYFVTNADKMIAELEDAYILLHEKKLSSLQPMVPLLESVIQSQKPLLIVAEDVEGEALATLVVNKLRG
GLKIAAVKAPGFGDRRKAMLQDIAILTGGQVISEDLGMKLENVTIDMLGRAKKVSINKDNTTIVDGA
GEKAEIEARVSQIRQQIEETTSDYDREKLQERVAKLAGGVAVIRVGGMTEIEVKERKDRVDDALNATR
AAVQEGIVVGGGVALVQGAKVLEGLSGANSDQDAGIAIIRRALEAPMRQIAENAGVDGAVVAGKVRES
SDKAFGFNAQTEEYGDMFKFGVIDPAKVVRTALEDAASVAGLLITTEAMIAEKPEPKAPAGGMPDM
GGMGGMM
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111100000000000111111111111111110000000000
00000000000001111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111111111111
>DM_train163
ASYFIGVDVGTGSARAGVFDLQGRMVGQASREITMFKPKADFVEQSSENIWQAVCNAVRDAVNQADI
NPIQVKGLGFDATCSLVVLDKEGNPLTVSPSGRNEQNVIVWMDHRAITQAERINATKHPVLEFVGGV
ISPEMQTPKLLWLKQHMPNTWSNVGHLFDLPDFLTWRATKDETRSLCSTVCKWTYLGHEDRWDP
SYFKLVGLADLLDNNAAKIGATVKPMGAPLGHGLSQRAASEMGLIPGTAVSVSIIDAHAGTIGILGASG
VTGENANFDRRIALIGGTSTAHMAMSRSAHFISGIWGPYYSAILPEYWLNEGGQSATGALIDHIIQSH
PCYPALLEQAKNKGETIYEALNYILRQMAGEPENIAFLTNDIHMLPYFHGNRSPRANPNLTGIITGLK
LSTTPEDMALRYLATIQALALGTRHIIETMNQNGYNIDTMMASGGGTKNPIFVQEHANATGCAMLL
PEESEAMLLGSAMMGTVAAGVFESLPEAMAAMSRIGKTVTPQTNKIKAYYDRKYRVFHQMYHDH
MRYQALMQEG
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>DM_train164
MASWSHPQFEKGAETAVPNSSSVPGDPSSMRKKNVLLIVVDQWRADFVPHVLRADGKIDFLKTPN
LDRLCREGVTFRNHVTTCVPAGPARASLLTGLYLMNHRAVQNTVPLDQRHLNLGKALRGVGYDPAL
IGYTTTVPDPRTTSPNDPRFRVLGDLMDGFHPVGAFEPNMEGYFGWVAQNGFDLPEHRPDIWLPE
GEDAVAGATDRPSRIPKEFSDSTFFTERALTYLKGRDGKPFFLHLGYYRPHPPFVASAPYHAMYRPE

DMPAPIRAANPDIEAAQHPLMKFYVDSIRRGSFFQGAEGSGATLDEAELRQMRATYCGLITEVDDCL
GRVFSYLDETGQWDDTLIIFTSDHGEQLGDHHLLGKIGYNDPSFRIPLVIKDAGENARAGAIESGFTE
SIDVMPTILDWLGGKIPHACDGLSLLPFLSEGRPQDWRTELHYEYDFRDVYYSEPQSFLGLGMNDCS
LCVIQDERYKYVHFAALPPLFFDLRHDPNEFTNLADDPAYAALVRDYAQKALSWRLKHADRTLTHY
RSGPEGLSERSH
11111111111111111111111111111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train165
MAGQTTVDSRRQPPEEVDVLVVGAGFSGLYALYRLRELGRSVHVIETAGDVGGVWYWNRYPGARCD
IESIEYCYSFSEEVLQEWNWTERYASQPEILRYINFVADKFDLRSGITFHTTVTAAAFDEATNTWTVD
TNHGDRIRARYLIMASGQLSVPQLPNFPGLKDFAGNLYHTGNWPHEPVDFSGQRVGVIGTGSSGIQV
SPQIAKQAAELFVFQRTPHFAVPARNAPLDPEFLADLKKRYAEFREESRNTPGGTHRYQGPKSALEV
SDEELVETLERYWQEGGPDILAAYRDILRDRDANERVAEFIRNKIRNTVRDPEVAERLVPKGYPFGTK
RLILEIDYYEMFNRDNVHLVDTLSAPIETITPRGVRTSEREYELDSLVLATGFDALTGALFKIDIRGVG
NVALKEKWAAGPRTYLGLSTAGFPNLFFIAGPGSPSALSNMLVSIEQHVEWVTDHIAYMFKNGLTRS
EAVLEKEDEWVEHVNEIADETLYPMTASWYTGANVPGKPRVFMLYVGGFHRYRQICDEVAAKGYEG
FVLT
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train166
ALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLS
VLALREGLGLPPGDDPMLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGE
ERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIARLEAEVFRLAGHPFNLNSRDQL
ERVLFDELGLPAIGKTEKTGKRSTSAAVLEALREAHPIVEKILQYRELTKLKSTYIDPLPDLIHPRTGRL
HTRFNQTATATGRLSSSDPNLQNIPVRTPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLI
RVFQEGRDIHTETASWMFGVPREAVDPLMRRAAKTINFGVLYGMSAHRLSQELAIPYEEAQAFIERY
FQSFPKVRAWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVKSVREAAERMAFNMPVQGTAADLM
KLAMVKLFPRLEEMGARMLLQVHDELVLEAPKERAEAVARLAKEVMEGVYPLAVPLEVEVGIGED
WLSAKE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111

1111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>DM_train168
MNKPIKNIVIVGGGTAGWMAASYLVRALQQQANITLIESAAIPRIGVGEATIPSLQKVFFDFLGIPERE
WMPQVNGAFKAAIKFVNWRKSPDPSRDDHFYHLFGNVPNCDGVPLTHYWLRKREQGFQQPMEYA
CYPQPGALDGKLAPCLSDGTRQMSHAWHFDAHLVADFLKRWAVERGVNRVVDEVVDVRLNNRGYI
SNLLTKEGRTLEADLFIDCSGMRGLLINQALKEPFIDMSDYLLCDSAVASAVPNDDARDGVEPYTSSI
AMNSGWTWKIPMLGRFGSGYVFSSHFTSRDQATADFLKLWGLSDNQPLNQIKFRVGRNKRAWVN
NCVSIGLSSCFLEPLESTGIYFIYAALYQLVKHFPDTSFDPRLSDAFNAEIVHMFDDCRDFVQAHYFTT
SRDDTPFWLANRHDLRLSDAIKEKVQRYKAGLPLTTTSFDDSTYYETFDYEFKNFWLNGNYYCIFAG
LGMLPDRSLPLLQHRPESIEKAEAMFASIRREAERLRTSLPTNYDYLRSLRDGDAGLSRGQRGPKLA
AQESL
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111111111111111
>DM_train169
MSSQKVFGITGPVSTVGATAAENKLNDSLIQELKKEGSFETEQETANRVQVLKILQELAQRFVYEVSK
KKNMSDGMARDAGGKIFTYGSYRLGVHGPGSDIDTLVVVPKHVTREDFFTVFDSLLRERKELDEIAP
VPDAFVPIIKIKFSGISIDLICARLDQPQVPLSLTLSDKNLLRNLDEKDLRALNGTRVTDEILELVPKPN
VFRIALRAIKLWAQRRAVYANIFGFPGGVAWAMLVARICQLYPNACSAVILNRFFIILSEWNWPQPVIL
KPIEDGPLQVRVWNPKIYAQDRSHRMPVITPAYPSMCATHNITESTKKVILQEFVRGVQITNDIFSNK
KSWANLFEKNDFFFRYKFYLEITAYTRGSDEQHLKWSGLVESKVRLLVMKLEVLAGIKIAHPFTKPF
ESSYCCPTEDDYEMIQDKYGSHKTETALNALKLVTDENKEEESIKDAPKAYLSTMYIGLDFNIENKKE
KVDIHIPCTEFVNLCRSFNEDYGDHKVFNLALRFVKGYDLPDEVFDENEKRPSKKSKRKN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000011111111111111
>DM_train170
MPSRVPKSIFYNQVGYLISGDKRFWIQAHEPQPFALRTPEGQAVFAGMTKPVGGNWYVGDFTALRV
PGTYTLTVGTLEARVVIHRRAYRDVLEAMLRFFDYQLCGVVLPEDEAGPWAHGACHTSDAKVFGTE
RALACPGGWHDAGDYGKYTVPAAKAVADLLLAHEYFPAALAHVRPMRSVHRAPHLPPALEVAREEI

AWLLTMQDPATGGVYHKVTTPSFPPLDTRPEDDDAPLVLSPISYAATATFCAAMAHAALVYRPFDPA
LSSCCADAARRAYAWLGAHEMQPFHNPDGILTGEYGDAELRDELLWASCALLRMTGDSAWARVCEP
LLDLDLPWELGWADVALYGVMDYLRTPRAAVSDDVRNKVKSRLLRELDALAAMAESHPFGIPMRD
DDFIWGSNMVLLNRAMAFLLAEGVGVLHPAAHTVAQRAADYLFGANPLGQCYVTGFGQRPVRHPH
HRPSVADDVDHPVPGMVVGGPNRHLQDEIARAQLAGRPAMEAYIDHQDSYSTNEVAVYWNSPAVF
VIAALLEARGR
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train171
GADDVVDSSKSFVMENFSSYHGTKPGYVDSIQKGIQKPKSGTQGNYDDDWKGFYSTDNKYDAAGYS
VDNENPLSGKAGGVVKVTYPGLTKVLALKVDNAETIKKELGLSLTEPLMEQVGTEEFIKRFGDGASR
VVLSLPFAEGSSSVEYINNWEQAKALSVELEINFETRGKRGQDAMYEYMAQACAGNRVRRSVGSSLS
CINLDWDVIRDKTKTKIESLKEHGPIKNKMSESPNKTVSEEKAKQYLEEFHQTALEHPELSELKTVT
GTNPVFAGANYAAWAVNVAQVIDSETADNLEKTTAALSILPGIGSVMGIADGAVHHNTEEIVAQSIAL
SSLMVAQAIPLVGELVDIGFAAYNFVESIINLFQVVHNSYNRPAYSPGHKTQPFLHDGYAVSWNTVED
SIIRTGFQGESGHDIKITAENTPLPIAGVLLPTIPGKLDVNKSKTHISVNGRKIRMRCRAIDGDVTFCRP
KSPVYVGNGVHANLHVAFHRSSSEKIHSNEISSDSIGVLGYQKTVDHTKVNSKLSLFFEIKS
00000000000000000000000000000000000011111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train172
EETPVTPQPPDILLGPLFNDVQNAKLFPDQKTFADAVPNSDPLMILADYRMQQNQSGFDLRHFVNV
NFTLPKEGEKYVPPEGQSLREHIDGLWPVLTRSTENTEKWDSLLPLPEPYVVPGGRFREVYYWDSY
FTMLGLAESGHWDKVADMVANFAHEIDTYGHIPNGNRSYYLSRSQPPFFALMVELLAQHEGDAALK
QYLPQMQKEYAYWMDGVENLQAGQQEKRVVKLQDGTLLNRYWDDRDTPRPESWVEDIATAKSNP
NRPATEIYRDLRSAAASGWDFSSRWMDNPQQLNTLRTTSIVPVDLNSLMFKMEKILARASKAAGD
NAMANQYETLANARQKGIEKYLWNDQQGWYADYDLKSHKVRNQLTAAALFPLYVNAAAKDRANK
MATATKTHLLQPGGLNTTSVKSGQQWDAPNGWAPLQWVATEGLQNYGQKEVAMDISWHFLTNVQ
HTYDREKKLVEKYDVSTTGTGGGGGEYPLQDGFGWTNGVTLKMLDLICPKEQPCDNVPATRPTVKS
ATTQPSTKEAQPTP
11111100000000000000000000000000000000000000000000000000000000000000
01111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111111111111111
>DM_train174
MAQLGKLLKEQKYDRQLRLWGDHGQEALESAHVCLINATATGTEILKNLVLPGIGSFTIIDGNQVSGE
DAGNNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTS
LRLADVLWNSQIPLLICRTYGLVGYMRIIIKEHPVIESHPDNALEDLRLDKPFPELREHFQSYDLDHM
EKKDHSHTPWIVIIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDEENFEEAIKN
VNTALNTTQIPSSIEDIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYI
KLQNVYREKAKKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTIN
KDEIISSMDNPDNEIVLYLMLRAVDRFHKQQGRYPGVSNYQVEEDIGKLKSCLTGFLQEYGLSVMVK
DDYVHEFCRYGAAEPHTIAAFLGGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train175
SHMQSRELKTVSADCKKEAIEKCAQWVVRDCRPFSAVSGSGFIDMIKFFIKVKAEYGEHVNVEELLP
SPITLSRKVTSDAKEKKALIGREIKSAVEKDGASATIDLWTDNYIKRNFLGVTLHYHENNELRDLILG
LKSLDFERSTAENIYKKLKAIFSQFNVEDLSSIKFVTDRGANVVKSLANNIRINCSSHLLSNVLENSFE
ETPELNMPILACKNIVKYFKKANLQHRLRSSLKSECPTRWNSTYTMLRSILDNWESVIQILSEAGET
QRIVHINKSIIQTMVNILDGFERIFKELQTCSSPSLCFVVPSILKVKEICSPDVGDVADIAKLKVNIIKNV
RIIWEENLSIWHYTAFFFYPPALHMQQEKVAQIKEFCLSKMEDLELINRMSSFNELSATQLNQSDSN
SHNSIDLTSHSKDISTTSFFFPQLTQNNSREPPVCPSDEFEFYRKEIVILSEDFKVMEWWNLNSKKYP
KLSKLALSLLSIPASSAASERTFSLAGNIITEKRNRIGQQTVDSLLFLNSFYKNFCK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000111111111111111100000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train177
MSSQVEHPAGGYKKLFETVEELSSPLTAHVTGRIPLWLTGSLLRCGPGLFEVGSEPFYHLFDGQALLH
KFDFKEGHVTYHRRFIRTDAYVRAMTEKRIVITEFGTCAFPDPCKNIFSRFFSYFRGVEVTDNALVNI
YPVGEDYYACTETNFITKVNPETLETIKQVDLCNYVSVNGATAHPHIENDGTVYNIGNCFGKNFSIAY
NIVKIPPLQADKEDPISKSEIVVQFPCSDRFKPSYVHSFGLTPNYIVFVETPVKINLFKFLSSWSLWGA

NYMDCFESNETMGVWLHIADKKRKKYINNKYRTSPFNLFHHINTYEDHEFLIVDLCCWKGFEFVY
NYLYLANLRENWEEVKKNARKAPQPEVRRYVLPLNIDKADTGKNLVTLPNTTATAILCSDETIWLEP
EVLFSGPRQAFEFPQINYQKYGGKPYTYAYGLGLNHFVPDRLCKLNVKTKETWVWQEPDSYPSEPIF
VSHPDALEEDDGVVLSVVVSPGAGQKPAYLLILNAKDLSEVARAEVEINIPVTFHGLFKKS
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111111111110000000000000000000
00000000000000000000000000000000000000000000000000000000000001110000000000000
00000000000000000000000000000000000000000000000001111111111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train179
MKPVKPPRINGRVPVLSAQEAVNYIPDEATLCVLGAGGGILEATTLITALADKYKQTQTPRNLSIISPT
GLGDRADRGISPLAQEGLVKWALCGHWGQSPRISDLAEQNKIIAYNYPQGVLTQTLRAAAAHQPGIIS
DIGIGTFVDPRQQGGKLNEVTKEDLIKLVEFDNKEYLYYKAIAPDIAFIRATTCDSEGYATFEDEVMYL
DALVIAQAVHNNGGIVMMQVQKMVKKATLHPKSVRIPGYLVDIVVVDPDQSQLYGGAPVNRFISGDF
TLDDSTKLSLPLNQRKLVARRALFEMRKGAVGNVGVGIADGIGLVAREEGCADDFILTVETGPIGGITS
QGIAFGANVNTRAILDMTSQFDFYHGGGLDVCYLSFAEVDQHGNVGVHKFNGKIMGTGGFIDISATS
KKIIFCGTLTAGSLKTEIADGKLNIVQEGRVKKFIRELPEITFSGKIALERGLDVRYITERAVFTLKEDGL
HLIEIAPGVDLQKDILDKMDFTPVISPELKLMDERLFIDAAMGFVLPEAAH
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111100
00000000000000000000000000000000000000000000000000000000001111100000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>DM_train181
MDNGTDSSTSKFVPEYRRTNFKNKGRFSADELRRRRDTQQVELRKAKRDEALAKRRNFIPPTDGA
DSDEEDESSVSADQQFYSQLQQELPQMTQQLNSDDMQEQLSATVKFRQILSREHRPPIDVVIQAGVV
PRLVEFMRENQPEMLQLEAAWALTNIASGTSAQTKVVVDADAVPLFIQLLYTGSVEVKEQAIWALGN
VAGDSTDYRDYVLQCNAMEPILGLFNSNKPSLIRTATWTLSNLCRGKKPQPDWSVVSQALPTLAKLI
YSMDTETLVDACWAISYLSDGPQEAIQAVIDVRIPKRLVELLSHESTLVQTPALRAVGNIVTGNDLQTQ
VVINAGVLPALRLLLSSPKENIKKEACWTISNITAGNTEQIQAVIDANLIPPLVKLLEVAEYKTKKEAC
WAISNASSGGLQRPDIIRYLVSQGCIKPLCDLLEIADNRIIEVTLDALENILKMGEADKEARGLNINEN
ADFIEKAGGMEKIFNCQQNENDKIYEKAYKIIETYFGEEEDAVDETMAPQNAGNTFG
11111111111000000001111111111100000000000000000000000000011111111111111
11111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111111111111111
>DM_train183
STQTSRVTLVGEMLPAYNEILTPEALSFLKELHENFNERRIELLQKRMKKQQKIDAGEFPKFLEETKR
IREADWTIAKLPKDLEDRRVEITGPVDRKMVINALNSGAHLFMADFEDSNSPTWENAIEGQINLRD
AVKGTISHKNENGKEYRLNSKTAVLIVRPRGWHLEEKHMQVDGKNMSGSLVDFGLYFFHNAKALLE
KGSGPYFYLPKMESYLEARLWNDVFVFAQKYIGIPNGTIKATVLLETIHASFEMDEILYELKDHSAGL
NCGRWDYIFSFLKAFRNHNEFLLPDRAQVTMTAPFMRAYSLKVIQTCHRRNAPAIGGMAAQIPIKN
NPEANEAAFEKVRADKEREALDGHDGTWVAHPGLVPVAMEVFNHIMKTPNQIFRKREEIHVTEKD
LLEVPVGTITEEGLRMNISVGIQYIASWLSGRGAAPIYNLMEDAATAEISRAQVWQWIRHEGGKLND
GRNITLELMEELKEEELAKIEREIGKEAFKKGRFQEATTLFTNLVRNDEFVPFLTLPGYEIL
11111000000001100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111111111111000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000100
0000000000000000000000000000000
>DM_train184
GCDLERYPLTDLSEETFWNSESNAELALTSLYRGSLTDGVEYNPSDWWSYHGMIMMEHLSDNAFDR
RGENNPFFKISSGNLTADNAFIKRYWETSYKRIGYCNRFLVGIQNSSESEKKTRMIAEARFLRATQYFY
LASYFKNVPLVENVLTGEEANNVTKTSQADILKWCVTEFTAAAADLPRFSAIPAGEAGRACKQAALA
FLGRTCMLQKDWKSGAKAFHDIMELGDNAINANYQELFYPSTGTSNKENIFYIQYLENYLGTGLPQH
ALSAKDGGWSLVNPAADLYESYEFKDGTPFSYDDPRYDPSNLGKDRDPRLDYTIYYNGAIFMGTEYK
MSPDYSAAKKEKLDYTSEASRTGFMMRKYFEESTPINDVQSANGLTPVIRYAEVLLGYLECLVEDNQ
TITQGILDETINAVRGRASVNMPPVTEVTPAKLREIVRHERRIELAMEGIRYWDIMRWGIAHEVLSQ
KIWGAPYPGSTQYATTTKEVDPTGNYRWYVGKRAFRNPTDYTWPIPQSEQNINPNLRD
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001
>DM_train185
MADSRDPASDQMQHWKEQRAAQKADVLTTGAGNPVGDKLNVITVGPRGPLLVQDVVFTDEMAHF
DRERIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGESGSADTVRDPRGF
AVKFYTEDGNWDLVGNNTPIFFIRDPILFPSFIHSQKRNPQTHLKDPDMVWDFWSLRPESLHQVSF
LFSDRGIPDGHRHMNGYGSHTFKLVNANGEAVYCKFHYKTDQGIKNLSVEDAARLSQEDPDYGIRDL
FNAIATGKYPSWTFYIQVMTFNQAETFPFNPFDLTKVWPHKDYPLIPVGKLVLNRNPVNYFAEVEQI
AFDPSNMPPGIEASPDKMLQGRLFAYPDTHRHRLGPNYLHIPVNCPYRARVANYQRDGPMCMQDN
QGGAPNYYPNSFGAPEQQPSALEHSIQYSGEVRRFNTANDDNVTQVRAFYVNVLNEEQRKRLCENI

AGHLKDAQIFIQKKAVKNFTEVHPDYGSHIQALLDKYNAEKPKNAIHTFVQSGSHLAAREKANL
11111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000111111111111111111111111
>DM_train187
SQIAVRTFHDIRAALLARRELALLDVREEDPFAQAHPLFAANLPLSRLELEIHARVPRRDTPITVYDD
GEGLAPVAAQRLHDLGYSDVALLDGGLSGWRNAGGELFRDVNVPSKAFGELVEAERHTPSLAAEEV
QALLDARAEAVILDARRFDEYQTMSIPGGISVPGAELVLRVAELAPDPRTRVIVNCAGRTRSIIGTQSL
LNAGIPNPVAALRNGTIGWTLAGQQLEHGQTRRFGAISQDTRKAAAQRARAVADRAGVERLDLAGL
AQWQDEHDRTTYLLDVRTPEEYEAGHLPGSRSTPGGQLVQETDHVASVRGARLVLVDDDGVRANM
SASWLAQMGWQVAVLDGLSEADFSERGAWSAPLPRQPRADTIDPTTLADWLGEPGTRVLDFTASA
NYAKRHIPGAAWVLRSQLKQALERLGTAERYVLTCGSSLLARFAVAEVQALSGKPVFLLDGGTSAWV
AAGLPTEDGESLLASPRIDRYRRPYEGTDNPREAMQGYLDWEFGLVEQLGRDGTHGFFVI
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train188
MVAAPPAVGAAMPSLDFDTSVFNKEKVSLAGHEEYIVRGGRNLFPLLPEAFKGIKQIGVIGWGSQGPA
QAQNLRDSLAEAKSDIVVKIGLRKGSKSFDEARAAGFTEESGTLGDIWETVSGSDLVLLLISDAAQAD
NYEKIFSHMKPNSILGLSHGFLLGHLQSAGLDFPKNISVIAVCPKGMGPSVRRLYVQGKEINGAGINSS
FAVHQDVDGRATDVALGWSVALGSPFTFATTLEQEYKSDIFGERGILLGAVHGIVEALFRRYTEQGM
DEEMAYKNTVEGITGIISKTISKKGMLEVYNSLTEEGKKEFNKAYSASFYPCMDILYECYEDVASGSEI
RSVVLAGRRFYEKEGLPAFPMGNIDQTRMWKVGEKVRSTRPENDLGPLHPFTAGVYVALMMAQIE
VLRKKGHSYSEIINESVIESVDSLNPFMHARGVAFMVDNCSTTARLGSRKWAPRFDYILTQQAFVTVD
KDAPINQDLISNFMSDPVHGAIEVCAELRPTVDISVPANADFVRPELRQSS
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000001111111111111111111111
>DM_train189

AVPAVGEDFPIDYADWLPKRDPNDRRRAGILLHPTSFPGPYGIGDLGPQAFKFLDWLHLAGCSLWQ
VLPLVPPGKRGNEDGSPYSGQDANCGNTLLISLEELVDDGLLKMEELPEPLPTDRVNYSTISEIKDPLI
TKAAKRLLSSEGELKDQLENFRRDPNISSWLEDAAYFAAIDNSVNTISWYDWPEPLKNRHLAALEE
VYQSEKDFIDIFIAQQFLFQRQWKKVRDYARSKGISIMGDMPIYVGYHSADVWANKKQFLLNRKGFP
LIVSGVPPDAFSETGQLWGSPLYDWKAMEKDGFSWWVRRIQRATDLFDEFRIDHFRGFAGFWAVPS
EEKIAILGRWKVGPGKPLFDAILQAVGKINIIAEDLGVITEDVVQLRKSIEAPGMAVLQFAFGSDAENP
HLPHNHEQNQVVYTGTHDNDTIRGWWDTLPQEEKSNVLKYLSNIEEEEISRGLIEGAVSSVARIAIIP
MQDVLGLGSDSRMNIPATQFGNWSWRIPSSTSFDNLDAEAKKLRDILATYGRL
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train190
MNINDLKLTLSKAGQEHLLRFWNELEEAQQVELYAELQAMNFEELNFFFQKAIEGFNQSSHQKNVD
ARMEPVPREVLGSATRDQDQLQAWESEGLFQISQNKVAVLLLAGGQGTRLGVAYPKGMYDVGLPSR
KTLFQIQAERILKLQQVAEKYYGNKCIIPWYIMTSGRTMESTKEFFTKHKYFGLKKENVIFFQQGMLP
AMSFDGKIILEEKNKVSMAPDGNGGLYRALAAQNIVEDMEQRGIWSIHVYCVDNILVKVADPRFIGF
CIQKGADCGAKVVEKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTV
PFLRDVVNVYEPQLQHHVAQKKIPYVDTQGQLIKPDKPNGIKMEKFVFDIFQFAKKFVVYEVLREDE
FSPLKNADSQNGKDNPTTARHALMSLHHCWVLNAGGHFIDENGSRLPAIPRSATNGKSETITADVN
HNLKDANDVPIQCEISPLISYAGEGLESYVADKEFHAPLIIDENGVHELVKNGI
00000000000000000000000000000000000000000000000000000000111111111110000
00000000000000000000000000000000000000000000111110000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111000000000000000000000000
00000000000000000000011111
>DM_train191
MASEVPQVVSLDPTSIPIEYNTPIHDIKVQVYDIKGGCNVEEGLTIFLVNNPGKENGPVKISSKVNDKQ
VSEFLKDENMEKFNVKLGTSKHFYMFNDNKNSVAVGYVGCGSVADLSEADMKRVVLSLVTMLHDN
KLSKLTVVFEINVDKNLFRFFLETLFYEYMTDERFKSTDKNVNMEYIKHLGVYINNADTYKEEVEKA
RVYYFGTYYASQLIAAPSNYCNPVSLSNAAVELAQKLNLEYKILGVKELEELKMGAYLSVGKGSMYPN
KFIHLTYKSKGDVKKKIALVGKGITFDSGGYNLKAAPGSMIDLMKFDMSGCAAVLGCAYCVGTLKPEN
VEIHFLSAVCENMVSKNSYRPGDIITASNGKTIEVGNTDAEGRLTLADALVYAEKLGVDYIVDIATLTG
AMLYSLGTSYAGVFGNNEELINKILQSSKTSNEPVWWLPIINEYRATLNSKYADINQISSSVKASSIVAS
LFLKEFVQNTAWAHIDIAGVSWNFKARKPKGFGVRLLTEFVLNDAL
11000000000000000000000000000000000000000000000000100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000011111111000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011
>DM_train193
MPSFASLKSLVVLSLTSLSLAATVALDLHILNANLDPDGTGARSAVTAEGTTIAPLITGNIDDRFQINVI
DQLTDANMRRATSIHWHGFFQAGTTEMDGPAFVNQCPIIPNESFVYDFVVPGQAGTYWYHSHLSTQ
YCDGLRGAFVVYDPNDPHLSLYDVDDASTVITIADWYHSLSTVLFPNPNKAPPAPDTTLINGLGRNS
ANPSAGQLAVVSVQSGKRYRFRIVSTSCFPNYAFSIDGHRMTVIEVDGVSHQPLTVDSLTIFAGQRYSV
VVEANQAVGNYWIRANPSNGRNGFTGGINSAIFRYQGAAVAEPTTSQNSGTALNEANLIPLINPGAP
GNPVPGGADINLNLRIGRNATTADFTINGAPFIPPTVPVLLQILSGVTNPNDLLPGGAVISLPANQVIEI
SIPGGGNHPFHLHGHNFDVVRTPGSSVYNYVNPVRRDVVSIGGGGDNVTFRFVTDNPGPWFLHCHI
DWHLEAGLAVVFAEDIPNIPIANAISPAWDDLCPKYNANNPDSGLA
111111111111111111110000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111
>DM_train194
MSASSSSALPPLVPALYRWKSTGSSGRQVQRRCVGAEAIVGLEEKNRRALYDLYIATSLRNIAPASTLL
TLQNLKEMFELALLDARFEHPECACTVSWDDEVPAIITYESPESNESARDWARGCIHVQPTAKSALD
LWSEMEEGRAAANDNTPSKSIELFLLSDVSTDSTPIPQDATVEILFHSNHLFWDGIGCRKFVGDLFRL
VGSYIGRSDSREMKKIQWGQEIKNLSPPVVDSLKLDINTLGSEFDDKCTEYTSALVANYKSRGMKFQ
PGLALPRCVIHKLSADESIDIVKAVKTRLGPGFTISHLTQAAIVLALLDHLKPNDLSDDEVFISPTSVD
GRRWLREDIASNFYAMCQTAAVVRIENLKSITVSHKDEKELQVRALESACRNIKKSYRQWLENPFLQ
ALGLRVHNFEASYLHAKPIPFEGEANPLFISDGINERFIPHEIKQTATGENVLSVESIDFVVNQSLPYLA
IRLDSWRDASTLNIIYNDANYTEAEVQKYLQSIVEFMLAFRL
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000010000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011100000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train195
MEVKREHWATRLGLILAMAGNAVGLGNFLRFPVQAAENGGGAFMIPYIIAFLLVGIPLMWIEWAMG
RYGGAQGHGTTPAIFYLLWRNRFAKILGVFGLWIPLVVAIYYVYIESWTLGFAIKFLVGLVPEPPPNAT
DPDSILRPFKEFLYSYIGVPKGDEPILKPSLFAYIVFLITMFINVSILIRGISKGIERFAKIAMPTLFILAVF

LVIRVFLLETPNGTAADGLNFLWTPDFEKLKDPGVWIAAVGQIFFTLSLGFGAIITYASYVRKDQDIVL
SGLTAATLNEKAEVILGGSISIPAAVAFFGVANAVAIAKAGAFNLGFITLPAIFSQTAGGTFLGFLWFFLL
FFAGLTSSIAIMQPMIAFLEDELKLSRKHAVLWTAAIVFFSAHLVMFLNKSLDEMDFWAGTIGVVFFG
LTELIIFFWIFGADKAWEEINRGGIIKVPRIYYYVMRYITPAFLAVLLVVWAREYIPKIMEETHWTVWI
TRFYIIGLFLFLTFLVFLAERRRNHESAGTLVPR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001100000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111
>DM_train196
FNYDQPYRGQYHFSPQKNWMNDPNGLLYHNGTYHLFFQYNPGGIEWGNISWGHAISEDLTHWEE
KPVALLARGFGSDVTEMYFSGSAVADVNNTSGFGKDGKTPLVAMYTSYYPVAQTLPSGQTVQEDQQS
QSIAYSLDDGLTWTTYDAANPVIPNPPSPYEAEYQNFRDPFVFWHDESQKWVVVTSIAELHKLAIYT
SDNLKDWKLVSEFGPYNAQGGVWECPGLVKLPLDSGNSTKWVITSGLNPGGPPGTVGSGTQYFVGE
FDGTTFTPDADTVYPGNSTANWMDWGPDFYAAAGYNGLSLNDHVHIGWMNNWQYGANIPTYPW
RSAMAIPRHMALKTIGSKATLVQQPQEAWSSISNKRPIYSRTFKTLSEGSTNTTTTGETFKVDLSFSA
KSKASTFAIALRASANFTEQTLVGYDFAKQQIFLDRTHSGDVSFDETFASVYHGPLTPDSTGVVKLSIF
VDRSSVEVFGGQGETTLTAQIFPSSDAVHARLASTGGTTEDVRADIYKIASTWN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train197
EPAKVVDIRIDTSAERKPISPYIYGSNQELDATVTAKRFGGNRTTGYNWENNFSNAGSDWLHYSDTY
LLEDGGVPKGEWSTPASVVTTFHDKALSKNVPYTLITLQAAGYVSADGNGPVSQEETAPSSRWKEV
KFEKGAPFSLTPDTEDDYVYMDEFVNYLVNKYGNASTPTGIKGYSIDNEPALWSHTHPRIHPDNVTA
KELIEKSVALSKAVKKVDPYAEIFGPALYGFAAYETLQSAPDWGTEGEGYRWFIDYYLDKMKKASDEE
GKRLLDVLDVHWYPEARGGGERICFGADPRNIETNKARLQAPRTLWDPTYIEDSWIGQWKKDFLPI
LPNLLDSIEKYYPGTKLAITEYDYGGGNHITGGIAQADVLGIFGKYGVYLATFWGDASNNYTEAGINLY
TNYDGKGGKFGDTSVKCETSDIEVSSAYASIVGEDDSKLHIILLNKNYDQPTTFNFSIDSSKNYTIGNV
WAFDRGSSNITQRTPIVNIKDNTFTYTVPALTACHIVLEAAEP
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001111
>DM_train198
AEQVALSRTHVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVG
YARSRLTVADIRKQSEPFFKATPEEKLKLEDFFARNSYVAGQYDDAASYQRLNSHMNALHLGSQANR
LFYLALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPFGRDLQSSDRLSNHISSLFREDQIYRIDHYLGK
EMVQNLMVLRFANRIFGPIWNRDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVA
MEKPASTNSDDVRDEKVKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFA
AVVLYVENERWDGVPFILRCGKALNERKAEVRLQFHDVAGDIFHQQCKRNELVIRVQPNEAVYTKM
MTKKPGMFFNPEESELDLTYGNRYKNVKLPDAYERLILDVFCGSQMHFVRSDELLEAWRIFTPLLH
QIELEKPKPIPYIYGSRGPTEADELMKRVGFQYEGTYKWVNPHKL
111111110000111111111111111000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111
>DM_train199
DPDQFGPDLIEQLAQSGKYSQDNTKGDAMIGVKQPLPKAVLRTQHDKNKEAISILDFGVIDDGVTDN
YQAIQNAIDAVASLPSGGELFIPASNQAVGYIVGSTLLIPGGVNIRGVGKASQLRAKSGLTGSVLRLSYDS
DTIGRYLRNIRVTGNNTCNGIDTNITAEDSVIRQVYGWVFDNVMVNEVETAYLMQGLWHSKFIACQ
AGTCRVGLHFLGQCVSVSVSSCHFSRGNYSADESFGIRIQPQTYAWSSEAVRSEAIILDSETMCIGFKN
AVYVHDCLDLHMEQLDLDYCGSTGVVIENVNGGFSFSNSWIAADADGTEQFTGIYFRTPTSTQSHKI
VSGVHINTANKNTAANNQSIAIEQSAIFVFVSGCTLTGDEWAVNIVDINECVSFDKCIFNKPLRYLRSG
GVSVTDCYLAGITEVQKPEGRYNTYRGCSGVPSVNGIINVPVAVGATSGSAAIPNPGNLTYRVRSLFGD
PASSGDKVSVSGVTINVTRPSPVGVALPSMVEYLAI
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train200
MPIHDKSPRPQEFAAVDLGSNSFHMVIARVVDGAMQIIGRLKQRVHLADGLGPDNMLSEEAMTRGL
NCLSLFAERLQGFSPASVCIVGTHTLRQALNATDFLKRAEKVIPYPIEIISGNEEARLIFMGVEHTQPE
KGRKLVIDIGGGSTELVIGENFEPILVESRRMGCVSFAQLYFPGGVINKENFQRARMAAAQKLETLTW
QFRIQGWNVAMGASGTIKAAHEVLMEMGEKDGIITPERLEKLVKEVLRHRNFASLSLPGLSEERKTV
FVPGLAILCGVFDALAIRELRLSDGALREGVLYEMEGRFRHQDVRSRTASSLANQYHIDSEQARRVLD
TTMQMYEQWREQQPKLAHPQLEALLRWAAMLHEVGLNINHSGLHRHSAYILQNSDLPGFNQEQQ

LMMATLVRYHRKAIKLDDLPRFTLFKKKQFLPLIQLLRLGVLLNNQRQATTTPPTLTLITDDSHWTL
RFPHDWFSQNALVLLDLEKEQEYWEGVAGWRLKIEEEESTPEIAA
11111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111
>DM_train201
GSPEFMHTINEEERREFIKHINSVLAGDPDVGSRVPINTETFEFFDQCKDGLILSKLINDSVPDTIDER
VLNKQRNNKPLDNFKCIENNNVVINSAKAMGGISITNIGAGDILEGREHLILGLVWQIIRRGLLGKIDI
TLHPELYRLLEEDETLDQFLRLPPEKILLRWFNYHLKAANWPRTVSNFSKDVSDGENYTVLLNQLA
PELCSRAPLQTTDVLQRAEQVLQNAEKLDCRKYLTPTAMVAGNPKLNLAFVAHLFNTHPGLEPLNE
EEKPEIEPFDAEGEREARVFTLWLNSLDVTPSIHDFFNNLRDGLILLQAYDKITPNTVNWKKVNKAP
ASGDEMMRFKAVENCNYAVDLGKNQGFSLVGIQGADITDGSRTLTLALVWQMMRMNITKTLHSLSR
GGKTLSDSDMVAWANSMAAKGGKGSQIRSFRDPSISTGVFVLDVLHGIKSEYVDYNLVTDGSTEELAI
QNARLAISIARKLGAVIFILPEDIVAVRPRLVLHFIGSLMAV
11111111000000000000000000000000000000000000000000000000000000000000000000
00001110000000000000000000000000000000000000000000000000000000000000111111
11111111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111111110000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train202
GMPEIHQSIAQHYHERTKYDPETIASKSQRLDWAKQPVPFKEYKIGSAIDLKPYLQETPEVFVNDTN
GQWWQRLSRLLFRSYGLTARMPSMGNTVYLRAAPSAGGLYPAEVYVVSRGTPLLSPGLYNYQCRTHS
LIHYWESDVWQSLQEACFWHPALESTQLAIIVTAVFYRSAWRYEDRAYRRICLDTGHLLGNIELSAAI
TDYRPHLIGGFIDEAVNDLLYIDPLQEGAIAVLPLADLLDIQQNISPGCTALPSATETNYPQVPDGELL
KYFHHHTQISASITGKLNLPTVIQEKSLEDKYNFPFCLKISTVSAPIYWGENLSDLEITMHKRRSTRAY
NGEELTFDELKALLDFTYQPQNYIDQSLDNSPDYFDLNLIETFIAVCGVQGLEAGCYYYAPKAQELRQI
RFKNFRRELHFLCLGQELGRDAAAVIFHTSDLKSAIAQYGDRVYRYLHMDAGHLGQRLNLAAIQLNL
GVSGIGGFFDDQVNEVLGIPNDEAVIYITTLGRPR
11111000000000000000000000011000000000000000000000000000000111110000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000

>DM_train204
MSNDKTGKSLEQENSERDVEIRDRNYFRKLSLFDDTVIAGAEMIGTSYDVFGKYCNVGSCMNSLFDE
RKINASEDNFKKVTILGKTLKVPYYIDCYSVGDLKYTNASGESIESYQSNISSKSRIKGNYLFFSASLKV
DFDTDSLTDFENAFSRIQYTYDLYILKSSAEALKEFLKESVKTALDKADTEEDMNDLFNTWGSHFLS
GVVMGGCAQYSSSTNKYTSNLTNSFDVVAAASFAGFIGLSARTGNSFMEDIKKFRSASNIKTHAIGGD
LSRFDPFGGATSADQPSAEEIAAAKKAFEDWKASVPNAPELVNFADSNPLTGIWELCSDRTQKAKLK
KHFETVWAPAESAKRRVHADYIDEIIIGINNTNTPPEGYIGLKSTKDENLNSKGNICLFMHKAKYDPN
IDNKDCITELKFITVRDKSPEGDWVKIPQDIYISPNQYLYLCYLPAKYSAEKAIKDIQLLCSSCGSSMIL
PYGYNDVLDERGERANATEDDNVHYLIYSAGWK
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111000000000000000000000000
0000000000001
>DM_train206
GVSKEEYKDVETAKKEKEQLGELMEPALGYVVKVPVSSFENKKVDISDIEVITNGNLDDVPYKANSS
KYNYPDIKTKDSSLQYVRSGYVIDGEHSGSNEKGYVYYKGNSPAKELPVNQLLTYTGSWDFTSNANL
NNEEGRPNYLNDDYYTKFIGKRVGLVSGDAKPAKHKYTSQFEVDFATKKMTGKLSDKEKTIYTVNA
DIRGNRFTGAATASDKNKGKGESYNFFSADSQSLEGGFYGPKAEEMAGKFVANDKSLFAVFSAKHNG
SNVDTVRIIDASKIDLTNFSISELNNFGDASVLIIDGKKIKLAGSGFTNKHTIEINGKTMVAVACCSNLE
YMKFGQLWQQAEGGKPENNSLFLQGERTATDKMPKGGNYKYIGTWDAQVSKENNWVATADDDRK
AGYRTEFDVDFGNKNLSGKLFDKNGVNPVFTVDPKIDGNGFTGKAKTSDAGFALDSGSSRYENVKF
NDVAVSGGFYGPTAAELGGQFHHKSENGSVGAVFGAKQQVKK
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000
>DM_train207
MFRLGTTPRATTYDPDARIGEVASRFGLPTRVLIEIVRTESFQRSLARVTSGKPVVLDLRELDSDLAS
WIATHARLVEPALRELVRTVAPDVEPRVRFRGLPHRFRRVERIRPMDGALISIEGVVREVRGAERLE
HAIVDTGSELVAVRLHGHRLGPGLRVEILGIVRSATLDALEVHKKDPIPEVHPDPAELEEFRELADKD
PLTTFARAIAPLPGAEEVGKMLALQLFSCVGKNSERLHVLLAGYPVVCSEILHHVLDHLAPRGVYVDL
RRTELTDLTAVLKEDRGWALRAGAAVLADGGILAVDHLEGAPEPHRWALMEAMDKGTVTVDGIAL
NARCAVLAAINPGEQWPSDPPIARIDLDQDFLSHFDLIAFLGVDPRPGEPEEQDTEVPSYTLLRRYLL
YAIREHPAPELTEEARKRLEHWYETRREEVEERLGMGLPTLPVTRRQLESVERLAKAHARMRLSDD
VEPEDVDIAAELVDWYLETAMQIPGGDEIRISSLKP
11111111111111111000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000011000
000000000000000000000000111111111111100000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000011111
111111111
>DM_train208
GAASEAEYGKVSKAWTLHADGSQEYRSSMELTLFTHTAMNSTYGESFIVYNPDFQTLKIHSSYTRQK
DGTIVKTPDNAFVEVLPRFAADAPAYNQLKEMVVVHTGLELGATIYLDYSIITKPGYYPALDINERLQ
ETSPVKECKVSISVPEGTPLACGLYGSPVKAVEESHDGIKEVHWTLRNIPASSREAFQPKNREASPHL
VASTYPSGKAALATLDKRLKESQGYESKTFAQFLTDKSGNEQEKVNIIRDHILNNLSTCPIPMAMTGY
TVRDIDTVLRSAYGTPLEIAQLLNVMLNAAGIPSEVLAVYPGHLDTDACGLAAIQTLAVKATVDGKDQ
YLSASPLTNRGGLDKVVSLSGTSIEIETTPIQIKESRSVAISADQAKDGFAICVLPAISAGIDSWGMSALN
SKRSNLFELPSLIREEVTYTVTPAEGMKLQTSTQEQVISKPFGKVTRTITPRGNTIEVVRTIELNKQQF
TPAEYSDVRSLIHEWTNPDNRVLLFSL
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train211
CGIVGIAGVMPVNQSIYDALTVLQHRGQDAAGIITIDANNCFRLRKANGLVSDVFEARHMQRLQGNM
GIGHVRYPTAGSSSASEAQPFYVNSPYGITLAHNGNLTNAHELRKKLFEEKRRHINTTSDSEILLNIFA
SELDNFRHYPLEADNIFAAIAATNRLIRGAYACVAMIIGHGMVAFRDPNGIRPLVLGKRDIDENRTEY
MVASESVALDTLGFDFLRDVAPGEAIYITEEGQLFTRQCADNPVSNPCLFEYVYFARPDSFIDKISVYS
ARVNMGTKLGEKIAREWEDLDIDVVIPIPETSCDIALEIARILGKPYRQGFVKNRYVGRTFIMPGQQL
RRKSVRRKLNANRAEFRDKNVLLVDDSIVRGTTSEQIIEMAREAGAKKVYLASAAPEIRFPNVYGID
MPSATELIAHGREVDEIRQIIGADGLIFQDLNDLIDAVRAENPDIQQFECSVFNGVYVTKDVDQGYLD
FLDTLRNDDAKAVQRQNEVENLEMHNEG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111111111111111
1111111
>DM_train212
MATKKATMIIEKDFKIAEIDKRIYGSFIEHLGRAVYGGIYEPGHPQADENGFRQDVIELVKELQVPIIRY
PGGNFVSGYNWEDGVGPKEQRPRRLDLAWKSVETNEIGLNEFMDWAKMVGAEVNMAVNLGTRGI

DAARNLVEYCNHPSGSYYSDLRIAHGYKEPHKIKTWCLGNAMDGPWQIGHKTAVEYGRIACEAAKV
MKWVDPTIELVVCGSSNRNMPTFAEWEATVLDHTYDHVDYISLHQYYGNRDNDTANYLALSLEMD
DFIRSVVAIADYVKAKKRSKKTIHLSFDEWNVWYHSNEADKLIEPWTVAPPLLEDIYNFEDALLVGC
MLITLMKHADRVKIACLAQLVNVIAPIMTEKNGPAWKQTIYYPFMHASVYGRGVALHPVISSPKYDS
KDFTDVPYLESIAVYNEEKEEVTIFAVNRDMEDALLLECDVRSFEDYRVIEHIVLEHDNVKQTNSAQS
SPVVPHRNGDAQLSDRKVSATLPKLSWNVIRLGKR
11110000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00001
>DM_train214
METKDLIVIGGGINGAGIAADAAGRGLSVLMLEAQDLACATSSASSKLIHGGLRYLEHYEFRLVSEALA
EREVLLKMAPHIAFPMRFRLPHRPHLRPAWMIRIGLFMYDHLGKRTSLPGSTGLRFGANSVLKPEIK
RGFEYSDCWVDDARLVLANAQMVVRKGGEVLTRTRATSARRENGLWIVEAEDIDTGKKYSWQARG
LVNATGPWVKQFFDDGMHLPSPYGIRLIKGSHIVVPRVHTQKQAYILQNEDKRIVFVIPWMDEFSIIG
TTDVEYKGDPKAVKIEESEINYLLNVYNTHFKKQLSRDDIVWTYSGVRPLCDDESDSPQAITRDYTL
DIHDENGKAPLLSVFGGKLTTYRKLAEHALEKLTPYYQGIGPAWTKESVLPGGAIEGDRDDYAARLR
RRYPFLTESLARHYARTYGSNSELLLGNAGTVSDLGEDFGHEFYEAELKYLVDHEWVRRADDALWR
RTKQGMWLNADQQSRVSQWLVEYTQQRLSLAS
11000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train215
MVYDLIVIGGGSGGMAAARRAARHNAKVALVEKSRLGGTCVNVGCVPKKIMFNAASVHDILENSRH
YGFDTKFSFNLPLLVERRDKYIQRLNNIYRQNLSKDKVDLYEGTASFLSENRILIKGTKDNNNKDNGP
LNEEILEGRNILIAVGNKPVFPPVKGIENTISSDEFFNIKESKKIGIVGSGYIAVELINVIKRLGIDSYIFAR
GNRILRKFDESVINVLENDMKKNNININVTFADVVEIKKVSDKNLSIHLSDGRIYEHFDHVIYCVGRSP
DTENLKLEKLNVETNNNYIVVDENQRTSVNNIYAVGDCCMVKKSKEIEDLNLLKLYNEERYLNKKE
NVTEDIFYNVQLTPVAINAGRLLADRLFLKKTRKTNYKLIPTVIFSHPPIGTIGLSEEAAIQIYGKENVK
IYESKFTNLFFSVYDIEPELKEKTYLKLVCVGKDELIKGLHIIGLNADEIVQGFAVALKMNATKKDFDE
TIPIHPTAAEEFLTLQPWMK
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111111111111111111100
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000001111111111111111111111111111100000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000001
111
>DM_train216
TEKKYIVALDQGTTSSRAVVMDHDANIISVSQREFEQIYPKPGWVEHDPMEIWATQSSTLVEVLAKA
DISSDQIAAIGITNQRETTIVWEKETGKPIYNAIVWQCRRTAEICEHLKRDGLEDYIRSNTGLVIDPYF
SGTKVKWILDHVEGSRERARRGELLFGTVDTWLIWKMTQGRVHVTDYTNASRTMLFNIHTLDWD
DKMLEVLDIPREMLPEVRRSSEVYGQTNIDGKGGTRIPISGIAGDQQAALFGQLCVKEGMAKNTYGT
GCFMLMNTGEKAVKSENGLLTTIACGPTGEVNYALEGAVFMAGASIQWLRDEMKLINDAYDSEYFA
TKVQNTNGVYVVPAFTGLGAPYWDPYARGAIFGLTRGVNANHIIRATLESIAYQTRDVLEAMQADSG
IRLHALRVDGGAVANNFLMQFQSDILGTRVERPEVREVTALGAAYLAGLAVGFWQNLDELQEKAVIE
REFRPGIETTERNYRYAGWKKAVKRAMAWEEHD
100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000001111111000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000011100000000000000000000000011100000000000000000000000000000000
000
>DM_train217
AFYIATFDIGTTEVKAALADRDGGLHFQRSIALETYGDGNGPVEQDAGDWYDAVQRIASSWWQSGV
DARRVSAIVLSGQMQNFLPLDQDHEPLHRAVLYSDKRPLKEAEEINARHGADNLWSALENPMTAAS
ILPKLVFWRASFPQAFGRLRHVVLGAKDYVVLRLTGRHATDRTNASTTGLYRPKDDAWHVELLADY
GFSLDLMPRLLEPGEQVGGVSALAARQTGFVSGTPVLCGLGDAGAATLGVGVLDDEDAYLHLGTTG
WLARLTQTDPVGDMPVGTIFRLAGIIAGKTLQVAPVLNAGNILQWALTLVGHRPGEDCAEYFHMAA
AEVQGVTVPDGLLFVPYLHAERCPVELPAPRGALLGVTGATTRAQILLAVLEGAALSLRWCAELLGM
EKVGLLKVVGGGARSEAWLRMIADNLNVSLLVKPDAHLHPLRGLAALAAVELEWSHSIQDFLREAD
LREPASNILHPQPCDEGRRRRKFERFKQCVETLGRLD
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001110000000000000000000000000000000
011
>DM_train218
MASLQLLPSPTPNLEIKYTKIFINNEWQNSESGRVFPVCNPATGEQVCEVQEADKVDIDKAVQAARL
AFSLGSVWRRMDASERGRLLDKLADLVERDRATLATMESLNGGKPFLQAFYIDLQGVIKTLRYYAG
WADKIHGMTIPVDGDYFTFTRHEPIGVCGQIIPWNFPLLMFTWKIAPALCCGNTVVIKPAEQTPLSA
LYMGALIKEAGFPPGVVNILPGYGPTAGAAIASHIGIDKIAFTGSTEVGKLIQEAAGRSNLKRVTLELGG
KSPNIIFADADLDYAVEQAHQGVFFNQGQCCTAGSRIFVEESIYEEFVKRSVERAKRRIVGSPFDPTTE

QGPQIDKKQYNKILELIQSGVAEGAKLECGGKGLGRKGFFIEPTVFSNVTDDMRIAKEEIFGPVQEILR
FKTMDEVIERANNSDFGLVAAVFTNDINKALMVSSAMQAGTVWINCYNALNAQSPFGGFKMSGNG
REMGEFGLREYSEVKTVTVKIPQKNS
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000011111111111111111111000000000000000000000000
00
>DM_train220
LEPRHAMLLRCRLPGGVITTKQWQAIDKFAGENTIYGSIRLTNRQTFQFHGILKKNVKPVHQMLHSV
GLDALATANDMNRNVLCTSNPYESQLHAEAYEWAKKISEHLLPRTRAYAEIWLDQEKVATTDEEPIL
GQTYLPRKFKTTVVIPPQNDIDLHANDMNFVAIAENGKLVGFNLLVGGGLSIEHGNKKTYARTASEF
GYLPLEHTLAVAEAVVTTQRDWGNRTDRKNAKTKYTLERVGVETFKAEVERRAGIKFEPIRPYEFT
GRGDRIGWVKGIDDNWHLTLFIENGRILDYPARPLKTGLLEIAKIHKGDFRITANQNLIIAGVPESEKA
KIEKIAKESGLMNAVTPQRENSMACVSFPTCPLAMAEAERFLPSFIDNIDNLMAKHGVSDEHIVMRV
TGCPNGCGRAMLAEVGLVGKAPGRYNLHLGGNRIGTRIPRMYKENITEPEILASLDELIGRWAKERE
AGEGFGDFTVRAGIIRPVLDPARDLWD
111111110000000000000000000000000000000000000000001111100000000000000
011100000000000000000000000000000000001111111111111111111111111110000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train221
MAHHHHHHMASPASTNPAHDHFETFVQAQLCQDVLSSFQGLCRALGVESGGGLSQYHKIKAQLNY
WSAKSLWAKLDKRASQPVYQQGQACTNTKCLVVGAGPCGLRAAVELALLGARVVLVEKRIKFSRHN
VLHLWPFTIHDLRALGAKKFYGRFCTGTLDHISIRQLQLLLLKVALLLGVEIHWGVKFTGLQPPPRKG
SGWRAQLQPNPPAQLASYEFDVLISAAGGKFVPEGFTIREMRGKLAIGITANFVNGRTVEETQVPEIS
GVARIYNQKFFQSLLKATGIDLENIVYYKDETHYFVMTAKKQCLLRLGVLRQDLSETDQLLGKANVV
PEALQRFARAAADFATHGKLGKLEFAQDARGRPDVAAFDFTSMMRAESSARVQEKHGARLLLGLVG
DCLVEPFWPLGTGVARGFLAAFDAAWMVKRWAEGAGPLEVLAERESLYQLLSQTSPENMHRNVAQ
YGLDPATRYPNLNLRAVTPNQVQDLYDMMDKE
111111111111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train222

GKDDDNVETGAFDPSKPVAISDFTPKEGGAYQKLLIYGENFGTDVSKVKVKIGGKDAIVINVKSTYVY
CFVPSGAFSGEIEITVGEGENAVTTTASTTFSYEKKMVVGTLCGYRNNRDDQGWRDGPFDGPEGVKC
CGFSDNGRLAFDPLNKDHLYICYDGHKAIQLIDLKNRMLSSPLNINTIPTNRIRSIAFNKKIEGYADEA
EYMIVAIDYDGKGDESPSVYIIKRNADGTFDDRSDIQLIAAYKQCNGATIHPINGELYFNSYEKGQVFR
LDLVDYFKTIKNGGSWDPIVKNNPNTFKQLFTIADPSWEFQIFIHPTGKYAYFGVINNHYFMRSDYD
EIKKEFITPYNFVGGYKQSGYRDDVGTEARMNNPCQGVFVKNPDYTGEEEYDFYFVDRLNFCVRKV
TPEGIVSTYAGRGASTSLADGNQWGTDDGDLREVARFRDVSGLVYDDVKEMFYVHDQVGHTIRTIS
MEQEENVAGDENIPEDESTVESNE
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111111111111
>DM_train223
ATSDSNMLLNYVPVYVMLPLGVVNVDNVFEDPDGLKEQLLQLRAAGVDGVMVDVWWGIIELKGPK
QYDWRAYRSLLQLVQECGLTLQAIMSFHQCGGNVGDIVNIPIPQWVLDIGESNHDIFYTNRSGTRNK
EYLTVGVDNEPIFHGRTAIEIYSDYMKSFRENMSDFLESGLIIDIEVGLGPAGELRYPSYPQSQGWEFP
GIGEFQCYDKYLKADFKAAVARAGHPEWELPDDAGKYNDVPESTGFFKSNGTYVTEKGKFFLTWYS
NKLLNHGDQILDEANKAFLGCKVKLAIKVSGIHWWYKVENHAAELTAGYYNLNDRDGYRPIARMLS
RHHAILNFTCLEMRDSEQPSDAKSGPQELVQQVLSGGWREDIRVAGENALPRYDATAYNQIILNARP
QGVNNNGPPKLSMFGVTYLRLSDDLLQKSNFNIFKKFVLKMHADQDYCANPQKYNHAITPLKPSAP
KIPIEVLLEATKPTLPFPWLPETDMKVDG
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train224
MTSRDGYQWTPETGLTQGVPSLGVISPPTNIEDTDKDGPWDVIVIGGGYCGLTATRDLTVAGFKTLLL
EARDRIGGRSWSSNIDGYPYEMGGTWVHWHQSHVWREITRYKMHNALSPSFNFSRGVNHFQLRT
NPTTSTYMTHEAEDELLRSALHKFTNVDGTNGRTVLPFPHDMFYVPEFRKYDEMSYSERIDQIRDE
LSLNERSSLEAFILLCSGGTLENSSFGEFLHWWAMSGYTYQGCMDCLMSYKFKDGQSAFARRFWEE
AAGTGRLGYVFGCPVRSVVNERDAARVTARDGREFVAKRVVCTIPLNVLSTIQFSPALSTERISAMQA
GHVSMCTKVHAEVDNKDMRSWTGIAYPFNKLCYAIGDGTTPAGNTHLVCFGNSANHIQPDEDVRET
LKAVGQLAPGTFGVKRLVFHNWVKDEFAKGAWFFSRPGMVSECLQGLREKHGGVVFANSDWALG
WRSFIDGAIEEGTRAARVVLEELGTKREVKARL
00000000000000000000000000000001111111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111111111
>DM_train225
MAQILPIRFQEHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADS
AIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGE
SQPVKMFDRHSSLAGCQIINYRTDAKQKWLLLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFA
QFKMEGNAEESTLFCFAVRGQAGGKLHIIEVGTPPTGNQPFPKKAVDVFFPPEAQNDFPVAMQISEK
HDVVFLITKYGYIHLYDLETGTCIYMNRISGETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITN
VLQNPDLALRMAVRNNLAGAEELFARKFNALFAQGNYSEAAKVAANAPKGILRTPDTIRRFQSVPAQ
PGQTSPLLQYFGILLDQGQLNKYESLELCRPVLQQGRKQLLEKWLKEDKLECSEELGDLVKSVDPTL
ALSVYLRANVPNKVIQCFAE
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000001111111
>DM_train226
MDYTYADDSLTLHTDMYQINMMQTYWELGRADLHAVFECYFREMPFNHGYAIFAGLERLVNYLEN
LTFTESDIAYLREVEEYPEDFLTYLANFEFKCTVRSALEGDLVFNNEPLIQIEGPLAQCQLVETALLNM
VNFQTLIATKAARIKSVIGDDPLLEFGTRRAQELDAAIWGTRAAYIGGADATSNVRAGKIFGIPVSGT
HAHSLVQSYGNDYEAFMAYAKTHRDCVFLVDTYDTLKAGVPSAIRVAREMGDKINFLGVRIDSGDMA
YISKRVREQLDEAGFTEAKIYASNDLDENTILNLKMQKSKIDVWGVGTKLITAYDQPALGAVFKLVSIE
GEDGQMKDTIKLSSNAEKVTTPGKKQVWRITRKSDKKSEGDYVTLWNEDPRQEEEIYMFHPVHTFI
NKYVRDFEARPVLQDIFVEGKRVYELPTLDEIKQYAKENLDSLHEEYKRDLNPQKYPVDLSTDCWN
HKMNLLEKVRKDVKHLTETVNKEA
111000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111111111
>DM_train227
TGNLVTKNSLTPDVRNGIDFKIADLSLADFGRKELRIAEHEMPGLMSLRREYAEVQPLKGARISGSLH
MTVQTAVLIETLTALGAEVRWASCNIFSTQDHAAAAVVVGPHGTPDEPKGVPVFAWKGETLEEYWW
AAEQMLTWPDPDKPANMILDDGGDATMLVLRGMQYEKAGVVPPAEEDDPAEWKVFLNLLRTRFE
TDKDKWTKIAESVKGVTEETTTGVLRLYQFAAAGDLAFPAINVNDSVTKSKFDNKYGTRHSLIDGIN
RGTDALIGGKKVLICGYGDVGKGCAEAMKGQGARVSVTEIDPINALQAMMEGFDVVTVEEAIGDADI
VVTATGNKDIIMLEHIKAMKDHAILGNIGHFDNEIDMAGLERSGATRVNVKPQVDLWTFGDTGRSII
VLSEGRLLNLGNATGHPSFVMSNSFANQTIAQIELWTKNDEYDNEVYRLPKHLDEKVARIHVEALG
GHLTKLTKEQAEYLGVDVEGPYKPDHYRY

111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train228
MTANGTAEAVQIQFGLINCGNKYLTAEAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLGR
YLAADKDGNVTCEREVPGPDCRFLIVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQTVSPAEKWSV
HIAMHPQVNIYSVTRKRYAHLSARPADEIAVDRDVPWGVDSLITLAFQDQRYSVQTADHRFLRHDG
RLVARPEPATGYTLEFRSGKVAFRDCEGRYLAPSGPSGTLKAGKATKVGKDELFALEQSCAQVVLQAA
NERNVSTRQGMDLSANQDEETDQETFQLEIDRDTKKCAFRTHTGKYWTLTATGGVQSTASSKNASC
YFDIEWRDRRITLRASNGKFVTSKKNGQLAASVETAGDSELFLMKLINRPIIVFRGEHGFIGCRKVTG
TLDANRSSYDVFQLEFNDGAYNIKDSTGKYWTVGSDSAVTSSGDTPVDFFFEFCDYNKVAIKVGGRY
LKGDHAGVLKASAETVDPASLWEY
111111100000000000000000000000000000000000000011111111000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111100000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train229
GGTAYWKNPDQFTAFNTGLHALLREKSYNFFLLGEPRADIYGDNPIGGEASQGMERLPFNTINKENV
GISNYGDMYKIINQINQMIAKTTETTILTEATQNYYLGEAYGMRAYLYFHLLRSWGDVVLYLDYTEGQ
NLDLSNITKGVSPATEVMEQIKKDIQASENAFGSDYSFKLGRHFWSAAATQMLKGEAYLWSGRQMN
GGNSDYTIAKNAFENVKKADVGLVTSSFKDIFSFENKKNKEMIFTIHNGKDEYEMWGGYYRMRLIP
AQDKMVKIYCDENGNSFVGTPDAQLNGLTQLQVRREFYFKGFRNNDTRWTTSLKAVYKKDAQGVV
SYFGPITYKFQGTMLEGGSTRSFLDDFPIYRYADCLLQLAMAKVLLGEDPTEEINAVRERAYGSKYFN
EHKAEIAYPNDNDPEFYTDNKWMKPDNAGALEAILKERLREFMFEGKRWYDIRLLGWDYVHQYSS
AEQSRLLWPIDAGTLTNNSALKQTPGYE
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111111
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train231
SVTVQQPQLTLTAAVIGDGAPANGKTAITVEFTVADFEGKPLAGQEVVITTNNGALPNKITEKTDANG
VARIALTNTTDGVTVVTAEVEGQRQSVDTHFVKGTIAADKSTLAAVPTSIIADGLMASTITLELKDTY
GDPQAGANVAFDTTLGNMGVITDHNDGTYSAPLTSTTLGVATVTVKVDGAAFSVPSVTVNFTADPIP
DAGRSSFTVSTPDILADGTMSSTLSFVPVDKNGHFISGMQGLSFTQNGVPVSISPITEQPDSYTATVVG

NSVGDVTITPQVDTLILSTLQKKISLFPVPTLTGILVNGQNFATDKGFPKTIFKNATFQLQMDNDVAN
NTQYEWSSSFTPNVSVNDQGQVTITYQTYSEVAVTAKSKKFPSYSVSYRFYPNRWIYDGGRSLVSSLE
ASRQCQGSDMSAVLESSRATNGTRAPDGTLWGEWGSLTAYSSDWQSGEYWVKKTSTDFETMNMD
TGALQPGPAYLAFPLCALSI
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train234
LLAGASSQRSVARMDGDVIIGALFSVHHQPPAEKVPERKCGEIREQYGIQRVEAMFHTLDKINADPVL
LPNITLGSEIRDSCWHSSVALEQSIEFIRDSLISIRDEKDGINRCLPDGQSLPPGRTKKPIAGVIGPGSSS
VAIQVQNLLQLFDIPQIAYSATSIDLSDKTLYKYFLRVVPSDTLQARAMLDIVKRYNWTYVSAVHTEG
NYGESGMDAFKELAAQEGLSIAHSDKIYSNAGEKSFDRLLRKLRERLPKARVVVCFCEGMTVRGLLS
AMRRLGVVGEFSLIGSDGWADRDEVIEGYEVEANGGITIKLQSPEVRSFDDYFLKLRLDTNTRNPWF
PEFWQHRFQCRLPGHLLENPNFKRICTGNESLEENYVQDSKMGFVINAIYAMAHGLQNMHHALCP
GHVGLCDAMKPIDGSKLLDFLIKSSFIGVSGEEVWFDEKGDAPGRYDIMNLQYTEANRYDYVHVGT
WHEGVLNIDDYKIQMNKSG
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111111111111000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111
>DM_train235
MKKRILAVAVTSMLLSASVFAQETVVPSRVGDLKFESDFPTQETMKNMLNEMDFQRATQAYLWGIP
ASSIMEWLNVSRNDFKFEEGQMGFFNTLKQKQGIITANFTTPYVIGTWNLEKTGPLIINLPEAKMAG
MMLDVHQRVLSDLSLLGPDKGKGGKYLIVPPGEKYKDLNPKGYYVIRPKTNVVYGGIRILEPDVDRV
VKQVVPNITTQPYADGKLGRKIPVAQVPEIDWTHIPKDGLEYWKTIHQIIQENPVEERDRFVMAQLK
FLGIEKGKPFNPTEEQKKILLEASKVGRAMAQSNDYTKRFTQPYWKGTNWKDAISVSLDQRSENYD
ELDERAAWFYEAITVSRGMKSTIPGFGQRYLVTYQDSDGNWLSGEHTYKLHVPANVPASNFWSTTV
YDENNRLMIINDAGSPDISSRKNLKVNSDGSIDVYYGPKPVKGYENNWVQTNPGEGWFTYFRFYGP
TEKMFDKSWTMGDIELVKLEHHHHHH
11111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111
>DM_train236

RLTELREDIDAILEDPALEGAVSGVVVVDTATGEELYSRDGGEQLLPASNMKLFTAAAALEVLGADHS
FGTEVAAESAPGRRGEVQDLYLVGRGDPTLSAEDLDAMAAEVAASGVRTVRGDLYADDTWFDSERL
VDDWWPEDEPYAYSAQISALTVAHGERFDTGVTEVSVTPAAEGEPADVDLGAAEGYAELDNRAVTG
AAGSANTLVIDRPVGTNTIAVTGSLPADAAPVTALRTVDEPAALAGHLFEEALESNGVTVKGDVGLG
GVPADWQDAEVLADHTSAELSEILVPFMKFSNNGHAEMLVKSIGQETAGAGTWDAGLVGVEEALSG
LGVDTAGLVLNDGSGLSRGNLVTADTVVDLLGQAGSAPWAQTWSASLPVAGESDPFVGGTLANRMR
GTAAEGVVEAKTGTMSGVSALSGYVPGPEGELAFSIVNNGHSGPAPLAVQDAIAVRLAEYAGHQAPE
GARMMRGPVQGSGELECSWVQAC
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111111111111111
>DM_train237
MNSTNSGPPDSGSATGVVPTPDEIASLLQVEHLLDQRWPETRIDPSLTRISALMDLLGSPQRSYPSIHI
AGTNGKTSVARMVDALVTALHRRTGRTTSPHLQSPVERISIDGKPISPAQYVATYREIEPLVALIDQQS
QASAGKGGPAMSKFEVLTAMAFAAFADAPVDVAVVEVGMGGRWDATNVINAPVAVITPISIDHVDYL
GADIAGIAGEKAGIITRAPDGSPDTVAVIGRQVPKVMEVLLAESVRADASVAREDSEFAVLRRQIAVGG
QVLQLQGLGGVYSDIYLPLHGEHQAHNAVLALASVEAFFGAGAQRQLDGDAVRAGFAAVTSPGRLER
MRSAPTVFIDAAHNPAGASALAQTLAHEFDFRFLVGVLSVLGDKDVDGILAALEPVFDSVVVTHNGS
PRALDVEALALAAGERFGPDRVRTAENLRDAIDVATSLVDDAAADPDVAGDAFSRTGIVITGSVVTAG
AARTLFGRDPQ
11111111111111111111000000000000000001110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
11110000000000000000000000000000000000000000000000000000000000000000
00000000000110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111100000000000000000000000
>DM_train238
MNAPESVQAKPRKRYDAGVMKYKMGYWDGDYVPKDTDLLALFRITPQDGVDPVEAAAAVAGESST
ATWTVVWTDRLTACDMYRAKAYRVDPVPNNPEQFFCYVAYDLSLFEEGSIANLTASIIGNVFSFKPIK
AARLEDMRFPVAYVKTFAGPSTGIIVERERLDKFGRPLLGATTKPKLGLSGRNYGRVVYEGLKGGLDF
MKDDENINSQPFMHWRDRFLFVMDAVNKASAATGEVKGSYLNVTAGTMEEMYRRAEFAKSLGSVI
IMVDLIVGWTCIQSMSNWCRQNDMILHLHRAGHGTYTRQKNHGVSFRVIAKWLRLAGVDHMHTG
TAVGKLEGDPLTVQGYYNVCRDAYTQTDLTRGLFFDQDWASLRKVMPVASGGIHAGQMHQLIHLFG
DDVVLQFGGGTIGHPQGIQAGATANRVALEAMVLARNEGRDILNEGPEILRDAARWCGPLRAALDT
WGDISFNYTPTDTSDFAPTASVA
11111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001111111111111111111
>DM_train239
MSQPDATPFDYILSGGTVIDGTNAPGRLADVGVRGDRIAAVGDLSASSARRRIDVAGKVVSPGFIDSH
THDDNYLLKHRDMTPKISQGVTTVVTGNCGISLAPLAHANPPAPLDLLDEGGSFRFARFSDYLEALR
AAPPAVNAACMVGHSTLRAAVMPDLRREATADEIQAMQALADDALASGAIGISTGAFYPPAAHASTE
EIIEVCRPLITHGGVYATHMRDEGEHIVQALEETFRIGRELDVPVVISHHKVMGKLNFGRSKETLALIE
AAMASQDVSLDAYPYVAGSTMLKQDRVLLAGRTLITWCKPYPELSGRDLEEIAAERGKSKYDVVPEL
QPAGAIYFMMDEPDVQRILAFGPTMIGSDGLPHDERPHPRLWGTFPRVLGHYSRDLGLFPLETAVW
KMTGLTAAKFGLAERGQVQPGYYADLVVFDPATVADSATFEHPTERAAGIHSVYYVNGAAVWEDQSF
TGQHAGRVLNRAGA
11111110000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111
>DM_train241
LLSRRRTRRPGEPPLDLGSIPWLGYALDFGKDAASFLTRMKEKHGDIFTILVGGRYVTVLLDPHSYDA
VVWEPRTRLDFHAYAIFLMERIFDVQLPHYSPSDEKARMKLTLLHRELQALTEAMYTNLHAVLLGD
ATEAGSGWHEMGLLDFSYSFLLRAGYLTLYGIEALPRTHESQAQDRVHSADVFHTFRQLDRLLPKLA
RGSLSVGDKDHMCSVKSRLWKLLSPARLARRAHRSKWLESYLLHLEEMGVSEEMQARALVLQLWA
TQGNMGPAAFWLLLFLLKNPEALAAVRGELESILWQAEQPVSQTTTLPQKVLDSTPVLDSVLSESLR
LTAAPFITREVVVDLAMPMADGREFNLRRGDRLLLFPFLSPQRDPEIYTDPEVFKYNRFLNPDGSEK
KDFYKDGKRLKNYNMPWGAGHNHCLGRSYAVNSIKQFVFLVLVHLDLELINADVEIPEFDLSRYGFG
LMQPEHDVPVRYRIRP
11111000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train242
MMNDGKQQSTFLFHDYETFGTHPALDRPAQFAAIRTDSEFNVIGEPEVFYCKPADDYLPQPGAVLIT
GITPQEARAKGENEAAFAARIHSLFTVPKTCILGYNNVRFDDEVTRNIFYRNFYDPYAWSWQHDNS
RWDLLDVMRACYALRPEGINWPENDDGLPSFRLEHLTKANGIEHSNAHDAMADVYATIAMAKLVK
TRQPRLFDYLFTHRNKHKLMALIDVPQMKPLVHVSGMFGAWRGNTSWVAPLAWHPENRNAVIMV
DLAGDISPLLELDSDTLRERLYTAKTDLGDNAAVPVKLVHINKCPVLAQANTLRPEDADRLGINRQH
CLDNLKILRENPQVREKVVAIFAEAEPFTPSDNVDAQLYNGFFSDADRAAMKIVLETEPRNLPALDIT
FVDKRIEKLLFNYRARNFPGTLDYAEQQRWLEHRRQVFTPEFLQGYADELQMLVQQYADDKEKVAL
LKALWQYADEIVEHHHHHH

11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011110000000000000000000000000000000000000000000000000000000000001
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111
>DM_train243
MSRLVVVSNRIAPPDEHAASAGGLAVGILGALKAAGGLWFGWSGETGNEDQPLKKVKKGNITWASF
NLSEQDLDEYYNQFSNAVLWPAFHYRLDLVQFQRPAWDGYLRVNALLADKLLPLLQDDDIIWIHDY
HLLPFAHELRKRGVNNRIGFFLHIPFPTPEIFNALPTYDTLLEQLCDYDLLGFQTENDRLAFLDCLSN
LTRVTTRSAKSHTAWGKAFRTEVYPIGIEPKEIAKQAAGPLPPKLAQLKAELKNVQNIFSVERLDYSK
GLPERFLAYEALLEKYPQHHGKIRYTQIAPTSRGDVQAYQDIRHQLENEAGRINGKYGQLGWTPLYY
LNQHFDRKLLMKIFRYSDVGLVTPLRDGMNLVAKEYVAAQDPANPGVLVLSQFAGAANELTSALIVN
PYDRDEVAAALDRALTMSLAERISRHAEMLDVIVKNDINHWQECFISDLKQIVPRSAESQQRDKVAT
FPKLALEHHHHHH
10000000000000111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111111111111111111
>DM_train244
TKFYTDAVEAVKDIPNGATVLVGGFGLCGIPENLIGALLKTGVKELTAVSNNAGVDNFGLGLLLQSKQI
KRMISSYVGENAEFERQYLAGELEVELTPQGTLAERIRAGGAGVPAFYTSTGYGTLVQEGGSPIKYNK
DGSIAIASKPREVREFNGQHFILEEAIRGDFALVKAWKADQAGNVTFRKSARNFNLPMCKAAETTVV
EVEEIVDIGSFAPEDIHIPKIYVHRLVKGEKYEKRIERLSVRKEEDVKTRSGKLGDNVRERIIKRAALEF
EDGMYANLGIGIPLLASNFISPNMTVHLQSENGILGLGPYPLQNEVDADLINAGKETVTVLPGASYFS
SDESFAMIRGGHVNLTMLGAMQVSKYGDLANWMIPGKLVKGMGGAMDLVSSAKTKVVVTMEHSA
KGNAHKIMEKCTLPLTGKQCVNRIITEKAVFDVDRKKGLTLIELWEGLTVDDIKKSTGCDFAVSPKLIP
MQQVTT
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111111110000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111111110000000000000000000011111111111111111111111110
0000000000000000000000000000000000000000000000000000000
>DM_train246
MARTGAEYIEALKTRPPNLWYKGEKVEDPTTHPVFRGIVRTMAALYDLQHDPRYREVLTYEEEGKR
HGMSFLIPKTKEDLKRRGQAYKLWADQNLGMMGRSPDYLNAVVMAYAASADYFGEFAENVRNYYR
YLRDQDLATTHALTNPQVNRARPPSGQPDPYIPVGVVKQTEKGIVVRGARMTATFPLADEVLIFPST
LLQAGSEKYALAFALPTSTPGLHFVCREALVGGDSPFDHPLSSRVEEMDCLVIFDDVLVPWERVFILG

NVELCNNAYAATGALNHMAHQVVALKTAKTEAFLGVAALMAEGIGADVYGHVQEKIAEIIVYLEAM
RAFWTRAEEEAKENAYGLLVPDRGALDGARNLYPRLYPRIREILEQIGASGLITLPSEKDFKGPLGPFL
EKFLQGAALEAKERVALFRLAWDMTLSGFGARQELYERFFFGDPVRMYQTLYNVYNKEPYKERIRA
FLKESLKVFEEVQA
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001111
>DM_train247
GSMGATKILMDSTHFNEIRSIIRSRSVAWDALARSEELSEIDASTAKALESILVKKNIGDGLSSSNNAHS
GFKVNGKTLIPLIHLLSTSDNEDCKKSVQNLIAELLSSDKYGDDTVKFFQEDPKQLEQLFDVSLKGDF
QTVLISGFNVVSLLVQNGLHNVKLVEKLLKNNNLINILQNIEQMDTCYVCIRLLQELAVIPEYRDVIW
LHEKKFMPTLFKILQRATDSQLATRIVATNSNHLGIQLQYHSLLLIWLLTFNPVFANELVQKYLSDFL
DLLKLVKITIKEKVSRLCISIILQCCSTRVKQHKKVIKQLLLLGNALPTVQSLSERKYSDEELRQDISNL
KEILENEYQELTSFDEYVAELDSKLLCWSPPHVDNGFWSDNIDEFKKDNYKIFRQLIELLQAKVRNG
DVNAKQEKIIIQVALNDITHVVELLPESIDVLDKTGGKADIMELLNHSDSRVKYEALKATQAIIGYTFK
1110000000000000000000000000000000000000000000000000000011111111111111111
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111111111000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train249
GASETQQWKTLEDTRSALMGVYGLTRAALADNNTHWICGDLRKGDFTVYKRSDLQAVSDNELNKP
YDLLKKVSNWRRFYAVINAASVFMEKAPRTVELDRSYSEQNLKYDIAQVRALRAFAYFYMVRIWGD
VPLVTYSYDNGTFPSMPRTDAQTVLSYAKAELLTAIEDLPYQYGTQTNLYYGSYGAQWQGKLFNKLSA
YSVLAHICAWQGNYAEAETYSAFIIDHASEINAKYTSIADLTSETGLFYSNASVKGSRILGFNFAHNDN
EATQSGHLEQLTLAYPLVQKSYPEIYISKDSLFSIFTNFDDLRFGIIDTIKYSSYYVQNLNEETPVFSKIKI
IQDGSAKDNDFGVFGSSIVFTRLEDITLLRAEALCALNRSTEAVSYLNMIRTNRGLREVSFKKDFGNN
RESLIAEIFEERRRELMGEGWRWYDLVRRQKLMKDNEAFLRLISSGGIYWPVSEDIITANSQIEQNEF
WK
1111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001111111110000000000000
0000000000000000000000000000000000000000000000000000000001111111110000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train250
ARTDNFKLSSLANGLKVATSNTPGHFSALGLYIDAGSRFEGRNLKGCTHILDRLAFKSTEHVEGRAM

AETLELLGGNYQCTSSRENLMYQASVFNQDVGKMLQLMSETVRFPKITEQELQEQKLSAEYEIDEV
WMKPELVLPELLHTAAYSGETLGSPLICPRGLIPSISKYYLLDYRNKFYTPENTVAAFVGVPHEKALEL
TGKYLGDWQSTHPPITKKVAQYTGGESCIPPAPVFGNLPELFHIQIGFEGLPIDHPDIYALATLQTLLG
GGGSFSAGGPGKGMYSRLYTHVLNQYYFVENCVAFNHSYSDSGIFGISLSCIPQAAPQAVEVIAQQMY
NTFANKDLRLTEDEVSRAKNQLKSSLLMNLESKLVELEDMGRQVLMHGRKIPVNEMISKIEDLKPD
DISRVAEMIFTGNVNNAGNGKGRATVVMQGDRGSFGDVENVLKAYGLGNSSSSKNDSPKKKGWFH
HHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111111111111111
>DM_train251
GGNLEEMNIDPDNATQTHPKLLLTQICMNAFKRGTDGMYATKKVIQADGESADQYYKWTRGSFGY
YDNLRNVQKMGEEAERVNAPVYTALTKFFRAYYFYELTLRFGDIPYSQALKGEKEEIYTPEYDAQED
VFAGILQELREADEILANDASVIDGDIIYNGNSTQWRKLINSFRLKVLMTLSNHTTVGNINIASEFKNI
ATNSPLMNSLADNGQLVYLDQQGNRYPQFNAQWSGYYMDDTFIQRMRERRDPRLFIFSAQTNKGK
TEGKPIDDFSSYEGGDPAAPYSDAIIKVSEGTISPINDRFRTDPIVEPTMLMGYAELQQILAEAVVRGW
ISGNAQTYYEKGIRASFSFYETHAKDYAGYLNENAVAQYLKEPLVDFTQASGTEEQIERIIMQKYLVTF
YQGNWDSFYEQLRTGYPDFRRPAGTEIPKRWMYPQGEYDNNGTNVETAITRQFGAGNDKINQATW
WQKKS
11111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train252
GALRSLVLIGHGSHHHGESARATQQVAEALRGRGLAGHLPYDEVLEGYWQQEPGLRQVLRTVAYSD
VTVVPVFLSEGYVTETVLPRELGLGHQGPVPTGGVVRVLGGRRVRYTRPLGAHPGMADAIAAQARD
TLPEGTDPADVTLLLLAARPGNAALETHAQALRERGQFAGVEVVLESREALTPESHAASAVPLSEWP
SRVEAGQAVLVPFLTHLGKHAAERLQQALAQAAERFPQAPPLHVGGPVGEHPAVAEVVLALAAEGRE
DERGGDIDQAHAEAWAALRHLAERGGRLGEVLLTPYGGLFELRHTLDEGRATLDLQTVVTPEGLRD
LTARDEAGRWRPIRTWRTLPRGWRAVLSPADLRLGLELLYPAVIEESYAHEHRRLHWTPWMSTARR
QTGTLARVQRATPDQVDTVAAQVCASCLRTRLWAGHTLGQTIFSGVPGGLPCAEACTVLLAAVRDEV
GREAMGSGD
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000111111
>DM_train253
SKDVSSTITTVSASPDGTLNLPAAAPLSIASGRLNQTILETGSQFGGVARWGQESHEFGMRRLAGTAL
DGAMRDWFTNECESLGCKVKVDKIGNMFAVYPGKNGGKPTATGSHLDTQPEAGKYDGILGVLAGLE
VLRTFKDNNYVPNYDVCVVVWFNAEGARFARSCTGSSVWSHDLSLEEAYGLMSVGEDKPESVYDSL
KNIGYIGDTPASYKENEIDAHFELHIEQGPILEDENKAIGIVTGVQAYNWQKVTVHGVGAHAGTTPW
RLRKDALLMSSKMIVAASEIAQRHNGLFTCGIIDAKPYSVNIIPGEVSFTLDFRHPSDDVLATMLKEA
AAEFDRLIKINDGGALSYESETLQVSPAVNFHEVCIECVSRSAFAQFKKDQVRQIWSGAGHDSCQTAP
HVPTSMIFIPSKDGLSHNYYEYSSPEEIENGFKVLLQAIINYDNYRVIRGHQFPGDDDDKHHHHHHH
HSGD
11111111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000011111111111111111
>DM_train254
MKTDTSTFLAQQIVRLRRRDQIRRLLQRDKTPLAILFMAAVVGTLTGLVGVAFEKAVSWVQNMRIGA
LVQVADHAFLLWPLAFILSALLAMVGYFLVRKFAPEAGGSGIPEIEGALEELRPVRWWRVLPVKFIGG
MGTLGAGMVLGREGPTVQIGGNLGRMVLDVFRMRSAEARHTLLATGAAAGLSAAFNAPLAGILFIIE
EMRPQFRYNLISIKAVFTGVIMSSIVFRIFNGEAPIIEVGKLSDAPVNTLWLYLILGIIFGVVGPVFNSLV
LRTQDMFQRFHGGEIKKWVLMGGAIGGLCGILGLIEPAAAGGGFNLIPIAAAGNFSVGLLLFIFITRVV
TTLLCFSSGAPGGIFAPMLALGTLLGTAFGMAAAVLFPQYHLEAGTFAIAGMGALMAASVRAPLTGIV
LVLEMTDNYQLILPMIITCLGATLLAQFLGGKPLYSTILARTLAKQDAEQAEKNQNAPADENT
11111111111111111111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111111
>DM_train256
MGSSSSENLYFQGHMATESPATRRVQVAEHPRLLKLKEMFNSKFGSIPKFYVRAPGRVNIIGEHIDYC
GYSVLPMAVEQDVLIAVEPVKTYALQLANTNPLYPDFSTSANNIQIDKTKPLWHNYFLCGLKGIQEHF
GLSNLTGMNCLVDGNIPPSSGLSSSSALVCCAGLVTLTVLGRNLSKVELAEICAKSERYIGTEGGGMDQ
SISFLAEEGTAKLIEFSPLRATDVKLPSGAVFVIANSCVEMNKAATSHFNIRVMECRLAAKLLAKYKSL
QWDKVLRLEEVQAKLGISLEEMLLVTEDALHPEPYNPEEICRCLGISLEELRTQILSPNTQDVLIFKLY
QRAKHVYSEAARVLQFKKICEEAPENMVQLLGELMNQSHMSCRDMYECSCPELDQLVDICRKFGAQ
GSRLTGAGWGGCTVSMVPADKLPSFLANVHKAYYQRSDGSLAPEKQSLFATKPGGGALVLLEA
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train257
ATLDSWLSNEATVARTAILNNIGADGAWVSGADSGIVVASPSTDNPDYFYTWTRDSGLVLKTLVDLF
RNGDTSLLSTIENYISAQAIVQGISNPSGDLSSGAGLGEPKFNVDETAYTGSWGRPQRDGPALRATAM
IGFGQWLLDNGYTSTATDIVWPLVRNDLSYVAQYWNQTGYDLWEEVNGSSFFTIAVQHRALVEGSA
FATAVGSSCSWCDSQAPEILCYLQSFWTGSFILANFDSSRSGKDANTLLGSIHTFDPEAACDDSTFQPC
SPRALANHKEVVDSFRSIYTLNDGLSDSEAVAVGRYPEDTYYNGNPWFLCTLAAAEQLYDALYQWD
KQGSLEVTDVSLDFFKALYSDAATGTYSSSSSTYSSIVDAVKTFADGFVSIVETHAASNGSMSEQYDKS
DGEQLSARDLTWSYAALLTANNRRNSVVPASWGETSASSVPGTCAATSAIGTYSSVTVTSWPSIV
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111
>DM_train258
MPEQYRYTLPVKAGEQRLLGELTGAACATLVAEIAERHAGPVVLIAPDMQNALRLHDEISQFTDQMV
MNLADWETLPYDSFSPHQDIISSRLSTLYQLPTMQRGVLIVPVNTLMQRVCPHSFLHGHALVMKKG
QRLSRDALRTQLDSAGYRHVDQVMEHGEYATRGALLDLFPMGSELPYRLDFFDDEIDSLRVFDVDS
QRTLEEVEAINLLPAHEFPTDKAAIELFRSQWRDTFEVKRDPEHIYQQVSKGTLPAGIEYWQPLFFSE
PLPPLFSYFPANTLLVNTGDLETSAERFQADTLARFENRGVDPMRPLLPPQSLWLRVDELFSELKN
WPRVQLKTEHLPTKAANANLGFQKLPDLAVQAQQKAPLDALRKFLETFDGPVVFSVESEGRREALG
ELLARIKIAPQRIMRLDEASDRGRYLMIGAAEHGFVDTVRNLALICESDLLGERVARRRQDSRRTINP
DTL
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001111111111111111111
>DM_train259
MLSNELRQTLQKGLHDVNSDWTVPAAIINDPEVHDVERERIFGHAWVFLAHESEIPERGDYVVRYIS
EDQFIVCRDEGGEIRGHLNACRHRGMQVCRAEMGNTSHFRCPYHGWTYSNTGSLVGVPAGKDAYG
NQLKKSDWNLRPMPNLASYKGLIFGSLDPHADSLEDYLGDLKFYLDIVLDRSDAGLQVVGAPQRWV
IDANWKLGADNFVGDAYHTMMTHRSMVELGLAPPDPQFALYGEHIHTGHGHGLGIIGPPPGMPLPE
FMGLPENIVEELERRLTPEQVEIFRPTAFIHGTVFPNLSIGNFLMGKDHLSAPTAFLTLRLWHPLGPD
KMEVMSFFLVEKDAPDWFKDESYKSYLRTFGISGGFEQDDAENWRSITRVMGGQFAKTGELNYQM
GRGVLEPDPNWTGPGEAYPLDYAEANQRNFLEYWMQLMLAESPLRDGNSNGSGTADASTPAAAKS
KSPAKAEA

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111111111111111111111111
>DM_train260
GSPGIPMVAAHAAHSQSSAEWIACLDKRPLERSSEDVDIIFTRLKGVKAFEKFHPNLLRQICLCGYYE
NLEKGITLFRQGDIGTNWYAVLAGSLDVKVSETSSHQDAVTICTLGIGTAFGESILDNTPRHATIVTRE
SSELLRIEQEDFKALWEKYRQYMAGLLAPPYGVMETGSNNDRIPDKENVPSEKILRAGKILRIAILSR
APHMIRDRKYHLKTYRQCCVGTELVDWMIQQTSCVHSRTQAVGMWQVLLEDGVLNHVDQERHFQ
DKYLFYRFLDDEREDAPLPTEEEKKECDEELQDTMLLLSQMGPDAHMRMILRKPPGQRTVDDLEII
YDELLHIKALSHLSTTVKRELAGVLIFESHAKGGTVLFNQGEEGTSWYIILKGSVNVVIYGKGVVCTLH
EGDDFGKLALVNDAPRAASIVLREDNCHFLRVDKEDFNRILRDVEANTVRLKEHDQDVLVLEKVP
11111111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111100000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111111111111111
>DM_train261
MRGSHHHHHHSNFAIILAAGKGTRMKSDLPKVLHKVAGISMLEHVFRSVGAIQPEKTVTVVGHKAE
LVEEVLAGQTEFVTQSEQLGTGHAVMMTEPILEGLSGHTLVIAGDTPLITGESLKNLIDFHINHKNVA
TILTAETDNPFGYGRIVRNDNAEVLRIVEQKDATDFEKQIKEINTGTYVFDNERLFEALKNINTNNAQ
GEYYITDVIGIFRETGEKVGAYTLKDFDESLGVNDRVALATAESVMRRRINHKHMVNGVSFVNPEAT
YIDIDVEIAPEVQIEANVILKGQTKIGAETVLTNGTYVVDSTIGAGAVITNSMIEESSVADGVTVGPYAH
IRPNSSLGAQVHIGNFVEVKGSSIGENTKAGHLTYIGNCEVGSNVNFGAGTITVNYDGKNKYKTVIGD
NVFVGSNSTIIAPVELGDNSLVGAGSTITKDVPADAIAIGRGRQINKDEYATRLPHHPKNQ
11111111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000011111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111111111
>DM_train264
MEELNIDFDVFKKRIELLYSKYNEFEGSPNSLLFVLGSSNAENPYQKTTILHNWLLSYEFPATLIALVP
GKVIIITSSAKAKHLQKAIDLFKDPESKITLELWQRNNKEPELNKKLFDDVIALINSAGKTVGIPEKDS
YQGKFMTEWNPVWEAAVKENEFNVIDISLGLSKVWEVKDVNEQAFLSVSSKGSDKFMDLLSNEMV
RAVDEELKITNAKLSDKIENKIDDVKFLKQLSPDLSALCPPNYKFNFDLLDWTYSPIIQSGKKFDLRV
SARSTNDQLYGNGCILASCGIRYNNYCSNITRTFLIDPSEEMANNYDFLLTLQKEIVTNILKPGRTPKE
VYESVIEYIEKTKPELVPNFTKNIGSLIGLEFRDSNFILNVKNDYRKIQRGDCFNISFGFNNLKDSQSA

NNYALQLADTVQIPLDETEPPRFLTNYTKAKSQISFYFNNEEEDNNKKKSSPATKV
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001100000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000011111111111111111
>DM_train265
VSPKTYKDADFYVAPTQQDVNYDLVDDFGANGNDTSDDSNALQRAINAISRKPNGGTLLIPNGTYH
FLGIQMKSNVHIRVESDVIIKPTWNGDGKNHRLFEVGVNNIVRNFSFQGLGNGFLVDFKDSRDKNLA
VFKLGDVRNYKISNFTIDDNKTIFASILVDVTERNGRLHWSRNGIIERIKQNNALFGYGLIQTYGADNI
LFRNLHSEGGIALRMETDNLLMKNYKQGGIRNIFADNIRCSKGLAAVMFGPHFMKNGDVQVTNVSS
VSCGSAVRSDSGFVELFSPTDEVHTRQSWKQAVESKLGRGCAQTPYARGNGGTRWAARVTQKDACL
DKAKLEYGIEPGSFGTVKVFDVTARFGYNADLKQDQLDYFSTSNPMCKRVCLPTKEQWSKQGQIYIG
PSLAAVIDTTPETSKYDYDVKTFNVKRINFPVNSHKTIDTNTESSRVCNYYGMSECSSSRWER
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0111111111111111111111000001111111111100000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train266
MCYASMEMSAPIRFGTEGFRGVIAREFTFATLHRLAEAYGRHLLERGGGLVVVGHDTRFLADAFARA
LSGHLAGMGLKVVLLKGPVPTPLLSFAVRHLKAAGGAMLTASHNPPQYLGVKFKDATGGPIAQEEAK
AIEALVPEEARALEGAYETLDLREAYFEALKAHLDLKALSGFSGVLYHDSMGGAGAGFLKGFLRHVG
LEIPVRPIREEPHPLFHGVNPEPIPKNLGVTLAVLGPETPPSFAVATDGDADRVGVVLPGGVFFNPHQ
VLTTLALYRFRKGHRGRAVKNFAVTWLLDRLGERLGFGVTTTPVGFKWIKEEFLKGDCFIGGEESGG
VGYPEHLPERDGILTSLLLLESVAATGKDLAEQFKEVEALTGLTHAYDRLDLPLKAPLDLTPFREPRPL
AGLTPKGVDTLDGVKWLYEEAWVLFRASGTEPVVRIYVEAQSPELVRALLEEARKLVEG
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111111111111100000000000000000000000
0000000111110000000000000000000000000
>DM_train267
GRPANANSGFYVSGTTLYDANGNPFVMRGINHGHAWYKDQATTAIEGIANTGANTVRIVLSDGGQW
TKDDIQTVRNLISLAEDNNLVAVLEVHDATGYDSIASLNRAVDYWIEMRSALIGKEDTVIINIANEWF
GSWDGAAWADGYKQAIPRLRNAGLNNTLMIDAAGWGQFPQSIHDYGREVFNADPQRNTMFSIHM
YEYAGGNASQVRTNIDRVLNQDLALVIGEFGHRHTNGDVDESTIMSYSEQRGVGWLAWSWKGNGP
EWEYLDLSNDWAGNNLTAWGNTIVNGPYGLRETSKLSTVFTGGGSDGRTSPTTLYDFEESTQGWTG

SSLSRGPWTVTEWSSKGNHSLKADIQMSSNSQHYLHVIQNRSLQQNSRIQATVKHANWGSVGNGM
TARLYVKTGHGYTWYSGSFVPINGSSGTTLSLDLSNVQNLSQVREIGVQFQSESNSSGQTSIYIDNVIV
E
00000110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111100000000000000000000000000000000000000000
00000000000000000000000000011111110000000000000000000000000000000000
00000000000000000000000000000000
>DM_train268
MGSDKIHHHHHHMFLGEDYLLTNRAAVRLFNEVKDLPIVDPHNHLDAKDIVENKPWNDIWEVEG
ATDHYVWELMRRCGVSEEYITGSRSNKEKWLALAKVFPRFVGNPTYEWIHLDLWRRFNIKKVISEE
TAEEIWEETKKKLPEMTPQKLLRDMKVEILCTTDDPVSTLEHHRKAKEAVEGVTILPTWRPDRAM
NVDKEGWREYVEKMGERYGEDTSTLDGFLNALWKSHEHFKEHGCVASDHALLEPSVYYVDENRAR
AVHEKAFSGEKLTQDEINDYKAFMMVQFGKMNQETNWVTQLHIGALRDYRDSLFKTLGPDSGGDI
STNFLRIAEGLRYFLNEFDGKLKIVLYVLDPTHLPTISTIARAFPNVYVGAPWWFNDSPFGMEMHLK
YLASVDLLYNLAGMVTDSRKLLSFGSRTEMFRRVLSNVVGEMVEKGQIPIKEARELVKHVSYDGPKA
LFFG
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train270
MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSK
DPDIKAQYQQRWLAIDANARREVKNYVLQTLGTETYRPSSASQCVAGIACAEIPVNQWPELIPQLVA
NVTNPNSTEHMKESTLEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLE
FTKANFDKESERHFIMQVVCEATQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKS
DIDEVALQGIEFWSNVCDEEMDLAIEASEAAEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDD
DDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHIKNPDWRYRDAAVMAFGCILEGPEPSQLKP
LVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLAPLLQCLIEGLSA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111111111111
>DM_train271
MAIVPFKRDPTFYPSPKMAMKAPPEDLAYVACLYTGTGINRADFIAVVDVNPKSETYSKIVHKVELP
YINDELHHFGWNACSSALCPNGKPNIERRFLIVPGLRSSRIYIIDTKPNPREPKIIKVIEPEEVKKVSGY

SRLHTVHCGPDAIYISALGNEEGEGPGGILMLDHYSFEPLGKWEIDRGDQYLAYDFWWNLPNEVLV
SSEWAVPNTIEDGLKLEHLKDRYGNRIHFWDLRKRKRIHSLTLGEENRMALELRPLHDPTKLMGFI
NMVVSLKDLSSSIWLWFYEDGKWNAEKVIEIPAEPLEGNLPEILKPFKAVPPLVTDIDISLDDKFLYLS
LWGIGEVRQYDISNPFKPVLTGKVKLGGIFHRADHPAGHKLTGAPQMLEISRDGRRVYVTNSLYSTW
DNQFYPEGLKGWMVKLNANPSGGLEIDKEFFVDFGEARSHQVRLSGGDASSDSYCYP
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train274
MSLDIQSLDIQCEELSDARWAELLPLLQQCQVVRLDDCGLTEARCKDISSALRVNPALAELNLRSNEL
GDVGVHCVLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHLSDNLLGDAGLQLLCEG
LLDPQCRLEKLQLEYCSLSAASCEPLASVLRAKPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEAL
KLESCGVTSDNCRDLCGIVASKASLRELALGSNKLGDVGMAELCPGLLHPSSRLRTLWIWECGITAKG
CGDLCRVLRAKESLKELSLAGNELGDEGARLLCETLLEPGCQLESLWVKSCSFTAACCSHFSSVLAQN
RFLLELQISNNRLEDAGVRELCQGLGQPGSVLRVLWLADCDVSDSSCSSLAATLLANHSLRELDLSN
NCLGDAGILQLVESVRQPGCLLEQLVLYDIYWSEEMEDRLQALEKDKPSLRVIS
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train275
MTQPELTPAQRTEVELLARGRADKSRVLRDLKLPETPEAAHALLLRLGVWDEARTPYADRLRAALN
AVELPVPDFDPAEERLDLTHLPTFAIDDEGNQDPDDAVGVEDLGGGLTRLWVHVADVAALVAPDSPL
DLEARARGATLYLPDRTIGMLPDELVAKAGLGLHEVSPALSICLDLDPDGNAEAVDVLLTRVKVQRLA
YQEAQARLEAGEEPFVTLARLARASRRLREGEGALSIDLPEVRVKADETGASVFPLPKPEMRTVVQE
CMTLAGWGTAIFADDNEIPLPFATQDYPTREVAGDTLPAMWARRKTLARTRFQPSPGPHHGMGLD
LYAQATSPMRRYLDLVVHQQLRAFLAGRDPLSSKVMAAHIAESQMNADATRQAERLSRRHHTLRFI
AAQPERVWDAVVVDRRGAQATLLIPDLAFDVQVNTPAAPGTALQVQFADIDLPQMRVRARSV
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train276
FSYGAAIPQSTQEKQFSQEFRDGYSILKHYGGNGPYSERVSYGIARDPPTSCEVDQVIMVKRHGERYP

SPSAGKDIEEALAKVYSINTTEYKGDLAFLNDWTYYVPNECYYNAETTSGPYAGLLDAYNHGNDYKA
RYGHLWNGETVVPFFSSGYGRVIETARKFGEGFFGYNYSTNAALNIISESEVMGADSLTPTCDTDNDQ
TTCDNLTYQLPQFKVAAARLNSQNPGMNLTASDVYNLMVMASFELNARPFSNWINAFTQDEWVSF
GYVEDLNYYYCAGPGDKNMAAVGAVYANASLTLLNQGPKEAGSLFFNFAHDTNITPILAALGVLIPNE
DLPLDRVAFGNPYSIGNIVPMGGHLTIERLSCQATALSDEGTYVRLVLNEAVLPFNDCTSGPGYSCPLA
NYTSILNKNLPDYTTTCNVSASYPQYLSFWWNYNTTTELNYRSSPIACQEGDAMD
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train279
LERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACCAEGADPDCY
DTRTSALSAKSCESNSPFPVHPGTAECCTKEGLERKLCMAALKHQPQEFPTYVEPTNDEICEAFRKD
PKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSLLTTLSNRV
CSQYAAYGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCD
NLSTKNSKFEDCCQEKTAMDVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMDKYTFELSR
RTHLPEVFLSKVLEPTLKSLGECCDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKK
KLAERLKAKLPDATPTELAKLVNKRSDFASNCCSINSPPLYCDSEIDAELKNIL
11111111111100000000000000000000000000000000000000000000111111110000
00000000000000000000000001111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train280
MSLMLSHNPIVEPFALAHATIVTGDKAGTILRNMTIVVGADGRIEQVAPSIETSIPAEYHYLDGTGKIV
MPGLINAHTHLFSQGKPLNPKLATPKGQRMVATFAHSPLGKPYMAATVKHNATTLLESGVTTIRTL
GDVGYEVVTLRDQIDAGQILGPRILASGPLMAIPEGHGAPLIALTSGTPEEARTAVAQNLKAGVNAIKI
AATGGVTDAQEIGEAGSPQMSVEQMRAICDEAHQYGVIVGAHAQSPEGVRRSLLAGVDTIEHGSVLD
DELIGMFRHNPNALRGYSALIPTLSAGLPLTLLGQDVTGITDIQLENSKNVVGGMVSGARQAHEAGL
MIGVGTDTGMTFVPQYATWRELELLVAYAGFSPAEALHAATAVNASILGVDAETGSLEVGKSADLLVL
NANPLDDLRALEHPALVIAAGHPVWRPGPKRFADIDALLDEAYAEGHHHHHH
11111111000000000000000000000000000000000000000000000000000000000000000
00000000001111111111111111111111111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00011111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111
>DM_train282

MGSSGHIEGRHMGKNVLLLGSGFVAQPVIDTLAANDDINVTVACRTLANAQALAKPSGSKAISLDVT
DDSALDKVLADNDVVISLIPYTFHPNVVKSAIRTKTDVVTSSYISPALRELEPEIVKAGITVMNEIGLD
PGIDHLYAVKTIDEVHRAGGKLKSFLSYCGGLPAPEDSDNPLGYKFSWSSRGVLLALRNSAKYWKDG
KIETVSSEDLMATAKPYFIYPGYAFVCYPNRDSTLFKDLYHIPEAETVIRGTLRYQGFPEFVKALVDMG
MLKDDANEIFSKPIAWNEALKQYLGAKSTSKEDLIASIDSKATWKDDEDRERILSGFAWLGLFSDAKI
TPRGNALDTLCARLEELMQYEDNERDMVVLQHKFGIEWADGTTETRTSTLVDYGKVGGYSSMAAT
VGYPVAIATKFVLDGTIKGPGLLAPYSPEINDPIMKELKDKYGIYLKEKTVA
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train283
MSQTTTNPHVAVLAFPFSTHAAPLLAVVRRLAAAAPHAVFSFFSTSQSNASIFHDSMHTMQCNIKSY
DISDGVPEGYVFAGRPQEDIELFTRAAPESFRQGMVMAVAETGRPVSCLVADAFIWFAADMAAEMG
VAWLPFWTAGPNSLSTHVYIDEIREKIGVSGIQGREDELLNFIPGMSKVRFRDLQEGIVFGNLNSLFS
RMLHRMGQVLPKATAVFINSFEELDDSLTNDLKSKLKTYLNIGPFNLITPPPVVPNTTGCLQWLKER
KPTSVVYISFGTVTTPPPAEVVALSEALEASRVPFIWSLRDKARVHLPEGFLEKTRGYGMVVPWAPQ
AEVLAHEAVGAFVTHCGWNSLWESVAGGVPLICRPFFGDQRLNGRMVEDVLEIGVRIEGGVFTKSGL
MSCFDQILSQEKGKKLRENLRALRETADRAVGPKGSSTENFITLVDLVSKPKDV
11111100000000000000000000000000000000000000000000000011111110000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train284
MNYPAEPFRIKSVETVSMIPRDERLKKMQEAGYNTFLLNSKDIYIDLLTDSGTNAMSDKQWAGMM
MGDEAYAGSENFYHLERTVQELFGFKHIVPTHQGRGAENLLSQLAIKPGQYVAGNMYFTTTRYHQE
KNGAVFVDIVRDEAHDAGLNIAFKGDIDLKKLQKLIDEKGAENIAYICLAVTVNLAGGQPVSMANMR
AVRELTEAHGIKVFYDATRCVENAYFIKEQEQGFENKSIAEIVHEMFSYADGCTMSGKKDCLVNIGGF
LCMNDDEMFSSAKELVVVYEGMPSYGGLAGRDMEAMAIGLREAMQYEYIEHRVKQVRYLGDKLKA
AGVPIVEPVGGHAVFLDARRFCEHLTQDEFPAQSLAASIYVETGVRSMERGIISAGRNNVTGEHHRPK
LETVRLTIPRRVYTYAHMDVVADGIIKLYQHKEDIRGLKFIYEPKQLRFFTARFDYI
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000

>DM_train286
CFAKGTNVLMADGSIECIENIEVGNKVMGKDGRPREVIKLPRGRETMYSVVQKSQHRAHKSDSSREV
PELLKFTCNATHELVVRTPRSVRRLSRTIKGVEYFEVITFEMGQKKAPDGRIVELVKEVSKSYPISEGP
ERANELVESYRKASNKAYFEWTIEARDLSLLGSHVRKATYQTYAPILYENDHFFDYMQKSKFHLTIEG
PKVLAYLLGLWIGDGLSDRATFSVDSRDTSLMERVTEYAEKLNLCAEYKDRKEPQVAKTVNLYSKVV
RGNGIRNNLNTENPLWDAIVGLGFLKDGVKNIPSFLSTDNIGTRETFLAGLIDSDGYVTDEHGIKATI
KTIHTSVRDGLVSLARSLGLVVSVNAEPAKVDMNGTKHKISYAIYMSGGDVLLNVLSKCAGSKKFRPA
PAAAFARECRGFYFELQELKEDDYYGITLSDDSDHQFLLANQVVVHN
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011111111
11111111100000000000000000000000000000000000000000111110000000000000
00000000000000000000000000000000000001111111111111111111111111110000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>DM_train287
GAPIHDPDFIGGIGKELIVDNASDVTSFYPSAFQEHLNFIPAPTTGSGCTRIPSFDMSATHYCYTHNVI
LSGCRDHSHSHQYLALGVLRTTATGRIFFSTLRSISLDDTQNRKSCSVSATPLGCDMLCSKVTETEEE
DYNSAVPTLMAHGRLGFDGQYHEKDLDVTTLFEDWVANYPGVGGGSFIDGRVWFSVYGGLKPNSPS
DTVQEGKYVIYKRYNDTCPDEQDYQIRMAKSSYKPGRFGGKRIQQAILSIKVSTSLGEDPVLTVPPNT
VTLMGAEGRILTVGTSHFLYQRGSSYFSPALLYPMTVSNKTATLHSPYTFNAFTRPGSIPCQASARCPN
SCVTGVYTDPYPLIFYRNHTLRGVFGTMLDSEQARLNPASAVFDSTSRSRITRVSSSSTKAAYTTSTCF
KVVKTNKTYCLSIAEISNTLFGEFRIVPLLVEILKNDGVREARSG
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111
>DM_train289
LEDKDLRSIQEVRNLIESANKAQKELAAMSQQQIDTIVKAIADAGYGAREKLAKMAHEETGFGIWQ
DKVIKNVFASKHVYNYIKDMKTIGMLKEDNEKKVMEVAVPLGVVAGLIPSTNPTSTVIYKTLISIKAG
NSIVFSPHPNALKAILETVRIISEAAEKAGCPKGAISCMTVPTIQGTDQLMKHKDTAVILATGGSAMV
KAAYSSGTPAIGVGPGNGPAFIERSANIPRAVKHILDSKTFDNGTICASEQSVVVERVNKEAVIAEFRK
QGAHFLSDAEAVQLGKFILRPNGSMNPAIVGKSVQHIANLAGLTVPADARVLIAEETKVGAKIPYSRE
KLAPILAFYTAETWQEACELSMDILYHEGAGHTLIIHSEDKEIIREFALKKPVSRLLVNTPGALGGIGA
TTNLVPALTLGCGAVGGSSSSDNIGPENLFNIRRIATGVLELEDIR
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000
>DM_train290
MASLPILTVLEQSQVSPPPDTLGDKSLQLTFFDFFWLRSPPINNLFFYELPITRSQFTETVVPNIKHSL
SITLKHFYPFVGKLVVYPAPTKKPEICYVEGDSVAVTFAECNLDLNELTGNHPRNCDKFYDLVPILGES
TRLSDCIKIPLFSVQVTLFPNQGIAIGITNHHCLGDASTRFCFLKAWTSIARSGNNDESFLANGTRPLY
DRIIKYPMLDEAYLKRAKVESFNEDYVTQSLAGPSDKLRATFILTRAVINQLKDRVLAQLPTLEYVSSF
TVACAYIWSCIAKSRNDKLQLFGFPIDRRARMKPPIPTAYFGNCVGGCAAIAKTNLLIGKEGFITAAKL
IGENLHKTLTDYKDGVLKDDMESFNDLVSEGMPTTMTWVSGTPKLRFYDMDFGWGKPKKLETVSI
DHNGAISINSCKESNEDLEIGVCISATQMEDFVHIFDDGLKAYL
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111000000000000000000000000000000000000000000000000000000
00000000000000000000001111
>DM_train291
MKTLSPAVITLLWRQDAAEFYFSRLSHLPWAMLLHSGYADHPYSRFDIVVAEPICTLTTFGKETVVSE
SEKRTTTTDDPLQVLQQVLDRADIRPTHNEDLPFQGGALGLFGYDLGRRFESLPEIAEQDIVLPDMA
VGIYDWALIVDHQRHTVSLLSHNDVNARRAWLESQQFSPQEDFTLTSDWQSNMTREQYGEKFRQV
QEYLHSGDCYQVNLAQRFHATYSGDEWQAFLQLNQANRAPFSAFLRLEQGAILSLSPERFILCDNSEI
QTRPIKGTLPRLPDPQEDSKQAVKLANSAKDRAENLMIVDLMRNDIGRVAVAGSVKVPELFVVEPFP
AVHHLVSTITAQLPEQLHASDLLRAAFPGGSITGAPKVRAMEIIDELEPQRRNAWCGSIGYLSFCGNM
DTSITIRTLTAINGQIFCSAGGGIVADSQEEAEYQETFDKVNRILKQLEK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111111
11111111111100000000000000000000000000001111111111111000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train293
MEALNQSQAATGAPVITDLKVVPVAGHDSMLLNLSGAHGPLFTRNILILTDSSGHVGVGEVPGGEGIR
KTLEDARHLLINQSIGNYQSLLNKVRNAFADRDVGGRGLQTFDLRIAVHAVTAVESALLDLLGQHLQ
VPVAALLGEGQQRDAVEMLGYLFYVGDRNKTDLGYRSEHEADNEWFRLRNKEALTPESVVALAEAA
YDRYGFKDFKLKGGVLRGEDEIAAVTALSERFPDARITLDPNGAWSLKEAVALCRDQHHVLAYAEDP
CGAENGYSGREVMAEFRRSTGLRTATNMIATDWRQMGHAIQLQSVDIPLADPHFWTMQGSVRVAQ
MCNEWGLTWGSHSNNHFDISLAMFTHVAAAAPGNITAIDTHWIWQDGQRLTKEPLQIKGGLVEVP
KKPGLGVELDWDALMKAHEVYKSMGLGARDDATAMRYLVSGWEFNNKRPCMVR
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000001111
11111111111111111111111111
>DM_train294
IIQVSPAGSMDLLSQLEVERLKKTASSDLYQLYRNCSLAVLNSGSHTDNSKELLDKYKNFDITVMRRE
RGIKLELANPPEHAFVDGQIIKGIQEHLFSVLRDIVYVNMHLADSQRLNLTNATHITNLVFGILRNAG
ALIPGATPNLVVCWGGHSINEVEYQYTREVGHELGLRELNICTGCGPGAMEGPMKGAAVGHAKQRYS
EYRYLGLTEPSIIAAEPPNPIVNELVIMPDIEKRLEAFVRMAHGIIIFPGGPGTAEELLYILGIMMHPEN
ADQPMPIVLTGPKQSEAYFRSLDKFITDTLGEAARKHYSIAIDNPAEAARIMSNAMPLVRQHRKDKE
DAYSFNWSLKIEPEFQLPFEPNHESMANLDLHLNQRPEVLAANLRRAFSGVVAGNVKAEGIREIER
HGPFEMHGDPVLMKKMDQLLNDFVAQNRMKLPGGSAYEPCYKIVT
000000000000000000000000000000000000000000011000000000000000000000000
000000000000000000000000000000000000000111111111000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train295
MKTWPAPTAPTPVRATVTVPGSKSQTNRALVLAALAAAQGRGASTISGALRSRDTELMLDALQTLG
LRVDGVGSELTVSGRIEPGPGARVDCGLAGTVLRFVPPLAALGSVPVTFDGDQQARGRPIAPLLDALR
ELGVAVDGTGLPFRVRGNGSLAGGTVAIDASASSQFVSGLLLSAASFTDGLTVQHTGSSLPSAPHIAMT
AAMLRQAGVDIDDSTPNRWQVRPGPVAARRWDIEPDLTNAVAFLSAAVVSGGTVRITGWPRVSVQP
ADHILAILRQLNAVVIHADSSLEVRGPTGYDGFDVDLRAVGELTPSVAALAALASPGSVSRLSGIAHLR
GHETDRLAALSTEINRLGGTCRETPDGLVITATPLRPGIWRAYADHRMAMAGAIIGLRVAGVEVDDIA
ATTKTLPEFPRLWAEMVGPGQGWGYPQPRSGQRARRATGQGSGG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000011
11111111111111111111111111
>DM_train296
RQGCEARRAHEHLIRLLLEQGKCPEDGWDESTLELFLHELAVMDSNNFLGNCGVGEREGRVASALV
ARRHYRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLNVIKLAGVHSVASCFVVPMATGMSLTLCFL
TLRHKRPKAKYIIWPRIDQKSCFKSMVTAGFEPVVIENVLEGDELRTDLKAVEAKIQELGPEHILCLH
STTACFAPRVPDRLEELAVICANYDIPHVVNNAYGLQSSKCMHLIQQGARVGRIDAFVQSLDKNFMV
PVGGAIIAGFNEPFIQDISKMYPGRASASPSLDVLITLLSLGCSGYRKLLKERKEMFVYLSTQLKKLAE
AHNERLLQTPHNPISLAMTLKTIDGHHDKAVTQLGSMLFTRQVSGARAVPLGNVQTVSGHTFRGFM
SHADNYPCAYLNAAAAIGMKMQDVDLFIKRLDKCLNIVRKEQTRA
111100000000000000000000000000000000000000000000000000000000000000000000
000000001111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train297
SKYVDRVIAEVEKKYADEPEFVQTVEEVLSSLGPVVDAHPEYEEVALLERMVIPERVIEFRVPWEDD
NGKVHVNTGYRVQFNGAIGPYLGGLRFAPSVNLSIMKFLGFEQAFKDSLTTLPMGGAKGGSDFDPNG
KSDREVMRFCQAFMTELYRHIGPDIDVPAGDLGVGAREIGYMYGQYRKIVGGFYNGVLTGKARSFGG
SLVRPEATGYGSVYYVEAVMKHENDTLVGKTVALAGFGNVAWGAAKKLAELGAKAVTLSGPDGYIYD
PEGITTEEKINYMLEMRASGRNKVQDYADKFGVQFFPGEKPWGQKVDIIMPCATQNDVDLEQAKKI
VANNVKYYIEVANMPTTNEALRFLMQQPNMVVAPSKAVNAGGVLVVGFEMSQNSERLSWTAEEVD
SKLHQVMTDIHDGSAAAAERYGLGYNLVAGANIVGFQKIADAMMAQGIAW
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000111111111111000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000111111111100000000000000000000000000000000
00000000000000000000000
>DM_train298
GAADPVVVPANMEPLTIEGNRFVTLCIMIRTTPWEVSRDVKLHPRDEVDWHTLEGVRALREAFATN
NPNGRLTWGFTMNALEDGRKNYREIRDYVVECQKKYGDEVTYFPGYFPAMYLPRERVNREMSEAI
EIISKMVGNGYRPQSIMGGFLSADNLRYLAEKENIHVAHAVIWSQHNIDGGGADGSPSYPFYPSTEHF
CKPAQGKSDFIDCVNLDGWTMDFICARRSGQTGHGIDGYNSRRGVGPIETYKGWGLDLGHREVMH
TEAIHFDKGLELNGFGWVANIWEAQMVHEFGKDLICDAMKMWVTGTKERWPDTHFVTFGEFGEL
WRKQYKSNDDWNYRFVERGSGLGDSYNNLEIKWFMNKEFRLALLRDWHTKNSPAYVIDFTRYDL
QAHEPADPSPEKPAKDWSLINKINQKALRPQDKPVLIDKLEKEDQDLIRKYYPELLK
1111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001100000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train300
MGSDKIHHHHHHMTFEEFKDRLFALAKKNGVEVQISFLETREFSLRLANGDLDQYTDAGKFNVEIK
VLKDGKTGTFRTQVLENPEKCFEEALSNLQVKDSEEKEYFFEGGKEYREMETYVGRFEKLSVKEKM
DMAKKAHESAAKDERVVMVPTVMYKDMVIKKIITNTLGLDVESQMDGGFLFAMAIARDANPRSGS
WYELARTPEDLNPEEIGKRAAEEAISLIGSKTIPSGKYPVLMRNTALLDLMEMFIPMISAENVQKNLS
PLKGKLGEQVGNPAVSIKDLPYHPKGLSSTPFDDEGVPTTEKFVLENGVLKTFLHNLKTARKEGVEP
TGNGFVGGIRPVNLMLMPGEKSFEELLKEMDRGVVITEVEGMHAGANSISGEFSLFAKGYWVENGEI
AHGVEDITISGNFLDLLRKIVLVGNDVKVSQHTIAPSVLVEVLDVAGK
1111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001111000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000011
>DM_train301
ASMKETNQKPYKETYGISHITRHDMLQIPEQQKNEKYQVPEFDSSTIKNISSAKGLDVWDSWPLQN
ADGTVANYHGYHIVFALAGDPKNADDTSIYMFYQKVGETSIDSWKNAGRVFKDSDKFDANDSILKD
QTQEWSGSATFTSDGKIRLFYTDFSGKHYGKQTLTTAQVNVSASDSSLNINGVEDYKSIFDGDGKTYQ
NVQQFIDEGNYSSGDNHTLRDPHYVEDKGHKYLVFEANTGTEDGYQGEESLFNKAYYGKSTSFFRQE
SQKLLQSDKKRTAELANGALGMIELNDDYTLKKVMKPLIASNTVTDEIERANVFKMNGKWYLFTDS
RGSKMTIDGITSNDIYMLGYVSNSLTGPYKPLNKTGLVLKMDLDPNDVTFTYSHFAVPQAKGNNVVI
TSYMTNRGFYADKQSTFAPSFLLNIKGKKTSVVKDSILEQGQLTVNK
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000
>DM_train302
MKGRLISSDPYRQQFLVERAVSFSHRQRDCSELISVLPRHALQQIDGFGGSFTEGAGVVFNSMSEKTK
AQFLSLYFSAQEHNYTLARMPIQSCDFSLGNYAYVDSSADLQQGRLSFSRDEAHLIPLISGALRLNPH
MKLMASPWSPPAFMKTNNDMNGGGKLRRECYADWADIIINYLLEYRRHGINVQALSVQNEPVAVK
TWDSCLYSVEEETAFAVQYLRPRLARQGMDEMEIYIWDHDKDGLVDWAELAFADEANYKGINGLAF
HWYTGDHFSQIQYLAQCLPDKKLLFSEGCVPMESDAGSQIRHWHTYLHDMIGNFKSGCSGFIDWNL
LLNSEGGPNHQGNLCEAPIQYDAQNDVLRRNHSWYGIGHFCRYVRPGARVMLSSSYDNLLEEVGFV
NPDGERVLVVYNRDVQERRCRVLDGDKEIALTLPPSGASTLLWRQESI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001
>DM_train303
NAWEVNFDGLVGLTHHYAGLSFGNEASTRHRFQVSNPRLAAKQGLLKMKALADAGFPQAVIPPHER
PFIPVLRQLGFSGSDEQVLEKVARQAPHWLSSVSSASPMWVANAATIAPSADTLDGKVHLTVANLNN
KFHRSLEAPVTESLLKAIFNDEEKFSVHSALPQVALLGDEGAANHNRLGGHYGEPGMQLFVYGREE
GNDTRPSRYPARQTREASEAVARLNQVNPQQVIFAQQNPDVIDQGVFHNDVIAVSNRQVLFCHQQAF
ARQSQLLANLRARVNGFMAIEVPATQVSVSDTVSTYLFNSQLLSRDDGSMMLVLPQECREHAGVWG
YLNELLAADNPISELKVFDLRESMANGGGPACLRLRVVLTEEERRAVNPAVMMNDTLFNALNDWV
DRYYRDRLTAADLADPQLLREGREALDVLSQLLNLGSVYPFQREGGGNG
0000000000000000001111111111100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111111
>DM_train304
MSDQPIIRRRQVKTGISDARANNAKTQSQYQPYKDAAWGFINHWYPALFTHELEEDQVQGIQICGVP
IVLRRVNGKVFALKDQCLHRGVRLSEKPTCFTKSTISCWYHGFTFDLETGKLVTIVANPEDKLIGTTG
VTTYPVHEVNGMIFVFVREDDFPDEDVPPLAHDLPFRFPERSEQFPHPLWPSSPSVLDDNAVVHGM
HRTGFGNWRIACENGFDNAHILVHKDNTIVHAMDWVLPLGLLPTSDDCIAVVEDDDGPKGMMQW
LFTDKWAPVLENQELGLKVEGLKGRHYRTSVVLPGVLMVENWPEEHVVQYEWYVPITDDTHEYW
EILVRVCPTDEDRKKFQYRYDHMYKPLCLHGFNDSDLYAREAMQNFYYDGTGWDDEQLVATDISPI
TWRKLASRWNRGIAKPGRGVAGAVKDTSLIFKQTADGKRPGYKVEQIKEDH
111111111111110000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001111
>DM_train305
MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSDLQLERINVYYNEAAGNKYVPRAILVD
LEPGTMDSVRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGF
QLTHSLGGGTGSGMGTLLISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYC
IDNEALYDICFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVPFPRLHFFMP
GFAPLTSRGSQQYRALTVPELTQQMFDAKNMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNV
QNKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTG
EGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEGEEDEA
000000000000000000000000000000011111111111111111000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0111111111111111111
>DM_train306
GKKAVINDSNTPLHLLQPAYQGTYGDLTPEQVKKDIDRVFAYIDKETPARVVDKNTGKVITDYTAMG
DEAQLERGAFRLASYEWGVTYSALIAAAETTGDKRYTDYVQNRFRFLAEVAPHFKRVYEEKGKTDS
QLLQILTPHALDDAGAVCTAMIKLRLKDESLPVDGLIQNYFDFIINKEYRLADGTFARNRPQRNTLW
LDDMFMGIPAVAQMSRYDKEAKNKYLAEAVKQFLQFADRMFIPEKGLYRHGWVESSTDHPAFCWA
RANGWALLTACELLDVLPEDYPQRPKVMDYFRAHVRGVTALQSGEGFWHQLLDCNDSYLETSATAI
YVYCLAHAINKGWIDAIAYGPVAQLGWHAVAGKINEEGQVEGTCVGTGMAFDPAFYYYRPVNVYAA
HGYGPVLWAGAEMIRLLNTQHPQMNDSAVQYYQEKQKTTAPIFAVDSE
111110000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001
>DM_train311
MERVNVVGAGLAGSEAAWTLLRLGVPVRLFEMRPKRMTPAHGTDRFAEIVCSNSLGGEGETNAKGL
LQAEMRRAGSLVMEAADLARVPAGGALAVDREEFSGYITERLTGHPLLEVVREEVREIPPGITVLATG
PLTSEALAEALKRRFGDHFLAYYDAASPIVLYESIDLTKCFRAGRYGQSADYLNCPMTEEEYRRFHQA
LLEAQRHTPHDWEKLEFFEACVPVEELARRGYQTLLFGPMKPVGLVDPRTGKEPFAVVQLRQEDKA
GRMWSLVGFQTGLKWPEQKRLIQMIPGLENAEIVRYGVMHRNTYLNAPRLLGETLEFREAEGLYAA
GVLAGVEGYLESAATGFLAGLNAARKALGLPPVAPPEESMLGGLVRYLATANPEGFQPMYANWGLVP
PVEGRMGKKEKRQAMYRRGLEAFSAWLSGLNPPLPRPEAALV
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011111000000000000000000000000000000001
1111110000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000001111111
>DM_train312
MRIDPFKLAHWMNARKYTAAQTADLAGLPLDDLRRLLGDEANEPDPAAATALAEALSVEPSQLAA
DAHRNLTVVHKSAEEMHASRRPIQRDGIHFYNYYTLAAPEGRVAPVVLDILCPSDRLPALNNGHLEP
AITVNLGPGDINGRWGEEITPQTWRVLHANHGGDRWITGDSYVEPSYCPHSYSLAGDAPARIVSYTA
QSNISPLMTEANNWSTGAFEEALKALSGKVSAGSVLDLFLARRAHTRTSAAEAAGVPPADLEAALRS
PASETGLTVLRTLGRALGFDYRVLLPADDQHDGVGKTWTTIEDSRRSRRTFGTYEAASMASAAHLP
DLVGSFLRVDADGRGADLIDHAENHYVVTEGRLTLEWDGPDGPASVELEPDGSAWTGPFVRHRWH
GTGTVLKFGSGAHLGYQDWLELTNTFEPAATLRRGRRDLAGWGYDN
0000000000000000000000000000000000000111111110000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000001100000000000000000000000000000000000000000001111110000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000111111111
>DM_train313
MWEANELSSTNTFSHQAEMDWPSANWWQRYQDAQLNHLIEEALQHSPSLCMAMARLKGAQGFA
RQAGAIRSFDLGLAASATESKVSERYQSATPPDGWNDYGTLTLNFQYDFDFWGKNRAAVVAATSELA
AAEAESVAARLMISTSIANAYAELARLYANQETVHAALQVRNKTVELLEKRYANGLETLGSVSQAKAV
AASVEAELLGIQESIQLQKNALAALVGQGPDRAASIEEPHITLTSRYGLPSEAGVGLLGHRADITAARW
RAEAAAQQVGIAQAQFYPDVTLSAFIGYQAFGLDHLFDSGNDAGAIGPAIYLPLFTGGRLEGQLTSAE
ARYQEAVAQYNGTLVQALHEIADVVTSSQALQARINKTEQAVQQAEQALHIATNRYQGGLATYLDVLV
AEESLLNNQRALVNLQSRAFSLDLALIHALGGGFETTES

11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000001111
>DM_train315
AGTHDYSTALKDSIIFFDANKCGPQAGENNVFDWRGACHTTDGSDVGVDLTGGYHDAGDHVKFGLP
QGYSAAILGWSLYEFKESFDATGNTTKMLQQLKYFTDYFLKSHPNSTTFYYQVGEGNADHTYWGAP
EEQTGQRPSLYKADPSSPASDILSETSAALTLMYLNYKNIDSAYATKCLNAAKELYAMGKANQGVGNG
QSFYQATSFGDDLAWAATWLYTATNDSTYITDAEQFITLGNTMNENKMQDKWTMCWDDMYVPA
ALRLAQITGKQIYKDAIEFNFNYWKTQVTTTPGGLKWLSNWGVLRYAAAESMVMLVYCKQNPDQS
LLDLAKKQVDYILGDNPANMSYIIGYGSNWCIHPHHRAANGYTYANGDNAKPAKHLLTGALVGGPD
QNDKFLDDANQYQYTEVALDYNAGLVGVLAGAIKFFGGTIVNPPVKK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111110000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000001111111111
>DM_train316
PYFDNISTIAYEGPASKNPLAFKFYNPEEKVGDKTMEEHLRFSVAYWHTFTGDGSDPFGAGNMIRP
WNKYSGMDLAKARVEAAFEFFEKLNIPFFCFHDVDIAPEGETLKETYKNLDIIVDMIEEYMKTSKTK
LLWNTANLFTHPRFVHGAATSCNADVFAYAAAKVKKGLEIAKRLGAENYVFWGGREGYETLLNTD
MKLELDNLARFLHMAVDYAKEIGFDGQFLIEPKPKEPTKHQYDFDVATALAFLQTYGLKDYFKFNIE
ANHATLAGHTFEHELRVARIHGMLGSVDANQGDMLLGWDTDEFPTDLYSTTLAMYEILKNGGLGR
GGLNFDAKVRRGSFEPEDLFYAHIAGMDSFAVGLKVAHRLIEDRVFDEFIEERYKSYTEGIGREIVEGT
ADFHKLEAHALQLGEIQNQSGRQERLKTLLNQYLLEVCAAR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111
>DM_train317
MLSTVFRRTMATGRHFIAVCQMTSDNDLEKNFQAAKNMIERAGEKKCEMVFLPECFDFIGLNKNE
QIDLAMATDCEYMEKYRELARKHNIWLSLGGLHHKDPSDAAHPWNTHLIIDSDGVTRAEYNKLHL
FDLEIPGKVRLMESEFSKAGTEMIPPVDTPIGRLGLSICYDVRFPELSLWNRKRGAQLLSFPSAFTLN
TGLAHWETLLRARAIENQCYVVAAAQTGAHNPKRQSYGHSMVVDPWGAVVAQCSERVDMCFAEID
LSYVDTLREMQPVFSHRRSDLYTLHINEKSSETGGLKFARFNIPADHIFYSTPHSFVFVNLKPVTDGH
VLVSPKRVVPRLTDLTDAETADLFIVAKKVQAMLEKHHNVTSTTICVQDGKDAGQTVPHVHIHILPR

RAGDFGDNEIYQKLASHDKEPERKPRSNEQMAEEAVVYRNLM
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000111111111111111111111000
00000000000000
>DM_train319
MPKLVTWMNNQRVGELTKLANGAHTFKYAPEWLASRYARPLSLSLPLQRGNITSDAVFNFFDNLLP
DSPIVRDRIVKRYHAKSRQPFDLLSEIGRDSVGAVTLIPEDETVTHPIMAWEKLTEARLEEVLTAYKA
DIPLGMIREENDFRISVAGAQEKTALLRIGNDWCIPKGITPTTHIIKLPIGEIRQPNATLDLSQSVDNEY
YCLLLAKELGLNVPDAEIIKAGNVRALAVERFDRRWNAERTVLLRLPQEDMCQTFGLPSSVKYESDG
GPGIARIMAFLMGSSEALKDRYDFMKFQVFQWLIGATQGHAKNFSVFIQAGGSYRLTPFYDIISAFPV
LGGTGIHISDLKLAMGLNASKGKKTAIDKIYPRHFLATAKVLRFPEVQMHEILSDFARMIPAALDNVK
TSLPTDFPENVVTAVESNVLRLHGRLSREYGSK
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111000000000000000000000001111111
111000000000000000000000000000000000000111111111100000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000111
>DM_train320
MKPLSSPLQQYWQTVVERLPEPLAEESLSAQAKSVLTFSDFVQDSVIAHPEWLTELESQPPQADEW
QHYAAWLQEALCNVSDEAGLMRELRLFRRRIMVRIAWAQTLALVTEESILQQLSYLAETLIVAARD
WLYDACCREWGTPCNAQGEAQPLLILGMGKLGGGELNFSSDIDLIFAWPEHGCTQGGRRELDNAQF
FTRMGQRLIKVLDQPTQDGFVYRVDMRLRPFGESGPLVLSFAALEDYYQEQGRDWERYAMVKARI
MGDSEGVYANELRAMLRPFVFRRYIDFSVIQSLRNMKGMIAREVRRRGLTDNIKLGAGGIREIEFIVQ
VFQLIRGGREPSLQSRSLLPTLSAIAELHLLSENDAEQLRVAYLFLRRLENLLQSINDEQTQTLPSDEL
NRARLAWAMDFADWPQLTGALTAHMTNVRRVFNELIGDDE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111110000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000111
>DM_train322
DIAVVGIGYVGLVSATCFAELGANVRCIDTDRNKIEQLNSGTIPIYEPGLEKMIARNVKAGRLRFGTEIE
QAVPEADIIFIAVGTPAGEDGSADMSYVLDAARSIGRAMSRYILIVTKSTVPVGSYRLIRKAIQEELDKR
EVLIDFDIASNPEFLKEGNAIDDFMKPDRVVVGVDSDRARELITSLYKPMLLNNFRVLFMDIASAEM
TKYAANAMLATRISFMNDVANLCERVGADVSMVRLGIGSDSRIGSKFLYPGCGYGGSCFPKDVKALIR
TAEDNGYRMEVLEAVERVNEKQKSILFDKFSTYYKGNVQGRCVAIWGLSFKPGTDDMREAPSLVLIE

KLLEVGCRVRVYDPVAMKEAQKRLGDKVEYTTDMYDAVRGAEALFHVTEWKEFRMPDWSALSQA
MAASLVIDGRNVYELPADSDFTLLNIGNSAIES
00000000000000000000000000000000000000001111000000000000000000000000000
00000000000000001100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001110
0000000111111
>DM_train323
GRDAPAPAASQPSGCGKHNSPERKVYMDYNATTPLEPEVIQAMTKAMWEAWGNPSSPYSAGRKAK
DIINAARESLAKMIGGKPQDIIFTSGGTESNNLVIHSVVKHFHANQTSKGHTGGHHSPVKGAKPHFIT
SSVEHDSIRLPLEHLVEEQVAAVTFVPVSKVSGQTEVDDILAAVRPTTRLVTIMLANNETGIVMPVPE
ISQRIKALNQERVAAGLPPILVHTDAAQALGKQRVDVEDLGVDFLTIVGHKFYGPRIGALYIRGLGEFT
PLYPMLFGGGQERNFRPGTENTPMIAGLGKAAELVTQNCEAYEAHMRDVRDYLEERLEAEFGQKRI
HLNSQFPGTQRLPNTCNFSIRGPRLQGHVVLAQCRVLMASVGAACHSDHGDQPSPVLLSYGVPFDVA
RNALRLSVGRSTTRAEVDLVVQDLKQAVAQLEDQA
11111111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111110000000000000000000000000000000000000
000000000011
>DM_train324
MAAGTFTAQNKVRPGVYINFKSEPQAAGTLGERGIVSMPLILSWGEPGKMITIEAGDDVFPKLGYSI
MDAQLRLINEALKRAKTLLLYRLNAGTKAAVTVGNLTVTAKWGGARGNDITLVIQENIDDETKFDVS
TLVDGAELDKQTVSDIAGLAANDWVIFSGTGALTETAGAPLINGSDGAVTNQAYIDYLAAVEIFDFNTI
ALPSTDDALKATFTAFAKRLRDDEGKKIQVVLENYPAADYEGVISVKNGVVLADGTILTAAQATAWV
AGATAGARVNESLTYQGYDEAVDVAPRYTNAQIIAALQAGEFLFTASDNQALVEQDINTLTSFTADKG
KQFAKNRVIRVLDGINNDFVRIFSKFYIGKVSNNADGRNLLKSECINYMNTLQDIDAIKNFDGQTDLT
VQSGNDVDAVYIEAYAWPVDSIEKIYVRVRIK
11111111111111000000000011110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000001111000000000000000000000000000000000000011000000000000000
000000000000
>DM_train325
GAMDPSQYASSSSWTSFLKSIASFNGDLSSLSAPPFILSPISLTEFSQYWAEHPELFLEPSFINDDNYKE
HCLIDPEVESPELARMLAVTKWFISTLKSQYCSRNESLGSEKKPLNPFLGELFVGKWENKEHPEFGE
TVLLSEQVSHHPPVTAFSIFNDKNKVKLQGYNQIKASFTKSLMLTVKQFGHTMLDIKDESYLVTPPPL
HIEGILVASPFVELEGKSYIQSSTGLLCVIEFSGRGYFSGKKNSFKARIYKDSKDSKDKEKALYTISGQW

SGSSKIIKANKKEESRLFYDAARIPAEHLNVKPLEEQHPLESRKAWYDVAGAIKLGDFNLIAKTKTEL
EETQRELRKEEEAKGISWQRRWFKDFDYSVTPEEGALVPEKDDTFLKLASALNLSTKNAPSGTLVG
DKEDRKEDLSSIHWRFQRELWDEEKEIVL
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000
>DM_train326
STLHGISHIFSYERLSLKRVVWALCFMGSLALLALVCTNRIQYYFLYPHVTKLDEVAATRLTFPAVTFC
NLNEFRFSRVTKNDLYHAGELLALLNNRYEIPDTQTADEKQLEILQDKANFRNFKPKPFNMLEFYD
RAGHDIREMLLSCFFRGEQCSPEDFKVVFTRYGKCYTFNAGQDGKPRLITMKGGTGNGLEIMLDIQQ
DEYLPVWGETDETSFEAGIKVQIHSQDEPPLIDQLGFGVAPGFQTFVSCQEQRLIYLPPPWGDCKATT
GDSEFYDTYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDNEYCVC
EMPCNVTRYGKELSMVKIPSKASAKYLAKKYNKSEQYIGENILVLDIFFEALNYETIEQKKAYEVAGLL
GDIGGQMGLFIGASILTVLELFDYAYEVIKHR
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
001111111111
>DM_train327
MSLPGTGSGTSSGGGNTQGQDVYIIPRPFSNFGKKLSTYTKSHKFMIFGLANNVIGPTGTGTTAVNRL
LTTCLAEIPWQKLPLYMNQSEFDLLPPGSRVVECNVKVIFRTNRIAFETSSTVTKQATLNQISNVQTAI
GLNKLGWGINRAFTAFQSDQPMIPTATTAPKYEPVTGDTGYRGMIADYYGADSTNDTAFGNAGNYP
HHQVSSFTFLQNYYCMYQQTNQGTGGWPCLAEHLQQFDSKTVNNQCLIDVTYKPKMGLIKSPLNY
KIIGQPTVKGTISVGDNLVNMRGAVVTNPPEATQNVAESTHNLTRNFPADLFNIYSDIEKSQVLHKGP
WGHENPQIQPSVHIGIQAVPALTTGALLINSSPLNSWTDSMGYIDVMSSCTVMEAQPTHFPFSTEAN
TNPGNTIYRINLTPNSLTSAFNGLYGNGATLGNV
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train328
ADYQGKNVVIIGLGLTGLSCVDFFLARGVTPRVMDTRMTPPGLDKLPEAVERHTGSLNDEWLMAAD
LIVASPGIALAHPSLSAAADAGIEIVGDIELFCREAQAPIVAITGSNGKSTVTTLVGEMAKAAGVNVGVG
GNIGLPALMLLDDECELYVLELSSFQLETTSSLQAVAATILNVTEDHMDRYPFGLQQYRAAKLRIYEN

AKVCVVNADDALTMPIRGADERCVSFGVNMGDYHLNHQQGETWLRVKGEKVLNVKEMKLSGQHN
YTNALAALALADAAGLPRASSLKALTTFTGLPHRFEVVLEHNGVRWINDSKATNVGSTEAALNGLH
VDGTLHLLLGGDGKSADFSPLARYLNGDNVRLYCFGRDGAQLAALRPEVAEQTETMEQAMRLLAPR
VQPGDMVLLSPACASLDQFKNFEQRGNEFARLAKELG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train329
LNSVGQGEFGGAPFKRFLRGTRIVSGGKLKRMTREKAKQVTVAGVPMPRDAEPRHLLVNGATGTGK
SVLLRELAYTGLLRGDRMVIVDPNGDMLSKFGRDKDIILNPYDQRTKGWSFFNEIRNDYDWQRYAL
SVVPRGKTDEAEEWASYGRLLLRETAKKLALIGTPSMRELFHWTTIATFDDLRGFLEGTLAESLFAG
SNEASKALTSARFVLSDKLPEHVTMPDGDFSIRSWLEDPNGGNLFITWREDMGPALRPLISAWVDV
VCTSILSLPEEPKRRLWLFIDELASLEKLASLADALTKGRKAGLRVVAGLQSTSQLDDVYGVKEAQTL
RASFRSLVVLGGSRTDPKTNEDMSLSLGEHEVERDRYSKNTGKHHSTGRALERVRERVVMPAEIAN
LPDLTAYVGFAGNRPIAKVPLEIKQFANRQPAFVEGTI
111111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011111111111111110000000000000000000000000000000000000000000
00000000111
>DM_train330
MASSSSFTYYCPPSSSPVWSEPLYSLRPEHARERLQDDSVETVTSIEQAKVEEKIQEVFSSYKFNHLVP
RLVLQREKHFHYLKRGLRQLTDAYECLDASRPWLCYWILHSLELLDEPIPQIVATDVCQFLELCQSPD
GGFGGGPGQYPHLAPTYAAVNALCIIGTEEAYNVINREKLLQYLYSLKQPDGSFLMHVGGEVDVRSAY
CAASVASLTNIITPDLFEGTAEWIARCQNWEGGIGGVPGMEAHGGYTFCGLAALVILKKERSLNLKSL
LQWVTSRQMRFEGGFQGRCNKLVDGCYSFWQAGLLPLLHRALHAQGDPALSMSHWMFHQQALQE
YILMCCQCPAGGLLDKPGKSRDFYHTCYCLSGLSIAQHFGSGAMLHDVVMGVPENVLQPTHPVYNIG
PDKVIQATTHFLQKPVPGFEECEDAVTSDPATD
111111111111111111110000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000011111
11111111111
>DM_train331
MAGGLSQLVAYGAQDVYLTGNPQITFFKTVYRRYTNFAIESIQQTINGSVGFGNKVSTQISRNGDLITD
IVVEFVLTKGGNGGTTYYPAEELLQDVELEIGGQRIDKHYNDWFRTYDALFRMNDDRYNYRRMTD

WVNNELVGAQKRFYVPLIFFFNQTPGLALPLIALQYHEVKLYFTLASQVQGVNYNGSSAIAGAAQPT
MSVWVDYIFLDTQERTRFAQLPHEYLIEQLQFTGSETATPSATTQASQNIRLNFNHPTKYLAWNFN
NPTNYGQYTALANIPGACSGAGTAAATVTTPDYGNTGTYNEQLAVLDSAKIQLNGQDRFATRKGSYF
NKVQPYQSIGGVTPAGVYLYSFALKPAGRQPSGTCNFSRIDNATLSLTYKTCSIDATSPAAVLGNTETVT
ANTATLLTALNIYAKNYNVLRIMSGMGGLAYAN
11111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train332
MSLSINSREVLAEKVKNAVNNQPVTDMHTHLFSPNFGEILLWDIDELLTYHYLVAEVMRWTDVSIE
AFWAMSKREQADLIWEELFIKRSPVSEACRGVLTCLQGLGLDPATRDLQVYREYFAKKTSEEQVDTV
LQLANVSDVVMTNDPFDDNERISWLEGKQPDSRFHAALRLDPLLNEYEQTKHRLRDWGYKVNDE
WNEGSIQEVKRFLTDWIERMDPVYMAVSLPPTFSFPEESNRGRIIRDCLLPVAEKHNIPFAMMIGVK
KRVHPALGDAGDFVGKASMDGVEHLLREYPNNKFLVTMLSRENQHELVVLARKFSNLMIFGCWWF
MNNPEIINEMTRMRMEMLGTSFIPQHSDARVLEQLIYKWHHSKSIIAEVLIDKYDDILQAGWEVTE
EEIKRDVADLFSRNFWRFVGRNDHVTSVKVEQQTEGHHHHHH
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
11111111111
>DM_train333
MLLAQKPFWQRHLAYPHINLDTVAHSLRLTGPLDTTLLLRALHLTVSEIDLFRARFSAQGELYWHPF
SPPIDYQDLSIHLEAEPLAWRQIEQDLQRSSTLIDAPITSHQVYRLSHSEHLIYTRAHHIVLDGYGMM
LFEQRLSQHYQSLLSGQTPTAAFKPYQSYLEEEAAYLTSHRYWQDKQFWQGYLREAPDLTLTSATYD
PQLSHAVSLSYTLNSQLNHLLLKLANANQIGWPDALVALCALYLESAEPDAPWLWLPFMNRWGSVA
ANVPGLMVNSLPLLRLSAQQTSLGNYLKQSGQAIRSLYLHGRYRIEQIEQDQGLNAEQSYFMSPFINIL
PFESPHFADCQTELKVLASGSAEGINFTFRGSPQHELCLDITADLASYPQSHWQSHCERFPRFFEQLL
ARFQQVEQDVARLLAEPAALAATTSTRAIAS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011
1111111111
>DM_train334
MSASQKEGKLSTATISVDGKSAEMPVLSGTLGPDVIDIRKLPAQLGVFTFDPGYGETAACNSKITFIDG

DKGVLLHRGYPIAQLAENASYEEVIYLLLNGELPNKAQYDTFTNTLTNHTLLHEQIRNFFNGFRRDA
HPMAILCGTVGALSAFYPDANDIAIPANRDLAAMRLIAKIPTIAAWAYKYTQGEAFIYPRNDLNYAEN
FLSMMFARMSEPYKVNPVLARAMNRILILHADHEQNASTSTVRLAGSTGANPFACIAAGIAALWGP
AHGGANEAVLKMLARIGKKENIPAFIAQVKDKNSGVKLMGFGHRVYKNFDPRAKIMQQTCHEVLTE
LGIKDDPLLDLAVELEKIALSDDYFVQRKLYPNVDFYSGIILKAMGIPTSMFTVLFAVARTTGWVSQW
KEMIEEPGQRISRPRQLYIGAPQRDYVPLAKR
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train336
YTPVEEKENGRMIVIVAKKYEGDIKDFVDWKNQRGLRTEVKVAEDIASPVTANAIQQFVKQEYEKEG
NDLTYVLLVGDHKDIPAKITPGIKSDQVYGQIVGNDHYNEVFIGRFSCESKEDLKTQIDRTIHYERNIT
TEDKWLGQALCIASAEGGPSADNGESDIQHENVIANLLTQYGYTKIIKCYDPGVTPKNIIDAFNGGISL
VNYTGHGSETAWGTSHFGTTHVKQLTNSNQLPFIFDVACVNGDFLFSMPCFAEALMRAQKDGKPTG
TVAIIASTIDQYWAPPMRGQDEMNEILCEKHPNNIKRTFGGVTMNGMFAMVEKYKKDGENMLDT
WTVFGDPSLLVRTLVPTEMQVTAPANISASAQTFEVACDYNGAIATLSDDGDMVGTAIVKDGKAIIKL
NESIADETNLTLTVVGYNKVTVIKDVKVEGTS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000111
>DM_train337
SLMAGLPNSSNALQQWHHLFEAEGTKRSPQAQQHLQQLLRTGLPTRKHENWKYTPLEGLINSQFV
SIAGEISPQQRDALALTLDSVRLVFVDGRYVPALSDATEGSGYEVSINDDRQGLPDAIQAEVFLHLTES
LAQSVTHIAVKRGQRPAKPLLLMHITQGVAGEEVNTAHYRHHLDLAEGAEATVIEHFVSLNDARHFT
GARFTINVAANAHLQHIKLAFENPLSHHFAHNDLLLAEDATAFSHSFLLGGAVLRHNTSTQLNGENS
TLRINSLAMPVKNEVCDTRTWLEHNKGFCNSRQLHKTIVSDKGRAVFNGLINVAQHAIKTDGQMTN
NNLLMGKLAEVDTKPQLEIYADDVKCSHGATVGRIDDEQIFYLRSRGINQQDAQQMIIYAFAAELTEA
LRDEGLKQQVLARIGQRLPGGAREGGSHHHHHH
11111111110000000000011100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
111111111
>DM_train338

ERTSIAVHALMGLPTGQPANGTKLDSIGLPKVDGMSFTLYRVNEIDLTTQAGWDAASKIKLEELYTN
GHPTDKVTKVATKKTEGGVAKFDNLTPALYLVVQELNGAEAVVRSQPFLVAAPQTNPTGDGWLQDV
HVYPKHQALSEPVKTAVDPDATQPGFSVGENVKYRVATKIPEIASNTKFEGFTVADKLPAELGKPDT
NKITVTLGGKPINSTDVSVQTYQVGDRTVLSVQLAGATLQSLDQHKDQELVVEFEAPVTKQPENGQL
DNQAWVLPSNPTAQWDPEESGDAALRGMPSSRVSSKFGQITIEKSFDGNTPGADRTATFQLHRCEA
DGSLVKSDPPISLDGKQEFVTGQDGKAVLSGIHLGTLQLESNVMKYTDAWAGKGTEFCLVETATASGY
ELLPKPVIVKLEANESTNVLVEQKVKIDNKKKN
10000000000000001111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011
>DM_train339
MTQDVREPPALKYGIVLDAGSSHTSMFVYKWPADKENDTGIVGQHSSCDVQGGGISSYANDPSKAG
QSLVRCLEQALRDVPRDRHASTPLYLGATAGMRLLNLTSPEATARVLEAVTQTLTQYPFDFRGARILS
GQDEGVFGWVTANYLLENFIKYGWVGRWIRPRKGTLGAMDLGGASTQITFETTSPSEDPGNEVHLR
LYGQHYRVYTHSFLCYGRDQILLRLLASALQIHRFHPCWPKGYSTQVLLQEVYQSPCTMGQRPRAFN
GSAIVSLSGTSNATLCRDLVSRLFNISSCPFSQCSFNGVFQPPVAGNFIAFSAFYYTVDFLTTVMGLPVG
TLKQLEEATEITCNQTWTELQARVPGQKTRLADYCAVAMFIHQLLSRGYHFDERSFREVVFQKKAA
DTAVGWALGYMLNLTNLIPADLPGLRKGTHF
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000
>DM_train343
MSNVFYRSSKPYPVAVRGEGVFLYDDAGRRYLDGSSGALVANIGHGRAEVGERMAAQAARLPFVHGS
QFSSDVLEEYAGRLARFVGLPTFRFWAVSGGSEATESAVKLARQYHVERGEPGRFKVITRVPSYHGAS
LGSLAASGMGARRELYTPLMRPEAWPKLPKPDPARNGAEDAEGLRALLEREGPETVAAFMAEPVV
GASDAALAPAPGYYERVRDICDEAGIIFIADEVMSGMGRCGSPLALSRWSGVTPDIAVLGKGLAAGYA
PLAGLLAAPQVYETVMGGSGAFMHGFTYAGHPVSVAAGLSVLDIVEREDLTGAAKERGAQLLAGLQA
LQARFPQMMQVRGTGLLLGVVLGDLATGQAFETPGIASRIGAAALKRGLITYPGSGAEPNGRGDHLL
LGPPLSITAAEVDGLLALLAGALEDVLG
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111111
11111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111111111100000000000000011111111111000000000000000000000000000
0001

>DM_train344
MAEFRIAQDVVARENDRRASALKEDYEALGANLARRGVDIEAVTAKVEKFFVAVPSWGVGTGGTRF
ARFPGTGEPRGIFDKLDDCAVIQQLTRATPNVSLHIPWDKADPKELKARGDALGLGFDAMNSNTFS
DAPGQAHSYKYGSLSHTNAATRAQAVEHNLECIEIGKAIGSKALTVWIGDGSNFPGQSNFTRAFERYL
SAMAEIYKGLPDDWKLFSEHKMYEPAFYSTVVQDWGTNYLIAQTLGPKAQCLVDLGHHAPNTNIE
MIVARLIQFGKLGGFHFNDSKYGDDDLDAGAIEPYRLFLVFNELVDAEARGVKGFHPAHMIDQKHNV
TDPIESLINSANEIRRAYAQALLVDRAALSGYQEDNDALMATETLKRAYRTDVEPILAEARRRTGGAV
DPVATYRASGYRARVAAERPASVAGGGGII
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111
1111
>DM_train345
MTTQTTPAHIAMFSIAAHGHVNPSLEVIRELVARGHRVTYAIPPVFADKVAATGPRPVLYHSTLPGPD
ADPEAWGSTLLDNVEPFLNDAIQALPQLADAYADDIPDLVLHDITSYPARVLARRWGVPAVSLSPNLV
AWKGYEEEVAEPMWREPRQTERGRAYYARFEAWLKENGITEHPDTFASHPPRSLVLIPKALQPHAD
RVDEDVYTFVGACQGDRAEEGGWQRPAGAEKVVLVSLGSAFTKQPAFYRECVRAFGNLPGWHLVLQ
IGRKVTPAELGELPDNVEVHDWVPQLAILRQADLFVTHAGAGGSQEGLATATPMIAVPQAVDQFGN
ADMLQGLGVARKLATEEATADLLRETALALVDDPEVARRLRRIQAEMAQEGGTRRAADLIEAELPAR
HERQEPVGDRPNVGDRPAGVRSDRQRSAL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111000000000000000000000010000000000000000000000011100000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111111111111111111
1111
>DM_train346
MNVLVIGRGGREHAIAWKAAQSPLVGKLYVAPGNPGIADVAELVHIDELDIEALVQFAKQQAIDLTIVG
PEAPLASGIVDRFMAEGLRIFGPSQRAALIEGSKAFAKELMKKYGIPTADHAAFTSYEEAKAYIEQKG
APIVIKADGLAAGKGVTVAQTVEEALAAAKAALVDGQFGTAGSQVVIEEYLEGEEFSFMAFVNGEKV
YPLAIAQDHKRAYDGDEGPNTGGMGAYSPVPQISDEMMDAALEAILRPAAKALAAEGRPFLGVLYAG
LMATANGPKVIEFNARFGDPEAQVVLPRLKTDLVEAVLAVMDGKELELEWTDEAVLGVVLAAKGYP
GAYERGAEIRGLDRISPDALLFHAGTKREGGAWYTNGGRVLLLAAKGETLAKAKEKAYEQLAAIDCD
GLFYRRDIGRRAIERASAAYTRMKGR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111

1111
>DM_train347
MGSDKIHHHHHHMFDPESLKKLAIEIVKKSIEAVFPDRAVKETLPKLNLDRVILVAVGKAAWRMAK
AAYEVLGKKIRKGVVVTKYGHSEGPIDDFEIYEAGHPVPDENTIKTTRRVLELVDQLNENDTVLFLLS
GGGSSLFELPLEGVSLEEIQKLTSALLKSGASIEEINTVRKHLSQVKGGRFAERVFPAKVVALVLSDVLG
DRLDVIASGPAWPDSSTSEDALKVLEKYGIETSESVKRAILQETPKHLSNVEIHLIGNVQKVCDEAKSL
AKEKGFNAEIITTSLDCEAREAGRFIASIMKEVKFKDRPLKKPAALIFGGETVVHVKGNGIGGRNQEL
ALSAAIALEGIEGVILCSAGTDGTDGPTDAAGGIVDGSTAKTLKAMGEDPYQYLKNNDSYNALKKSGA
LLITGPTGTNVNDLIIGLIV
1111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train348
MAAVVLENGVLSRKLSDFGQETSYIEDNSNQNGAISLIFSLKEEVGALAKVLRLFEENDINLTHIESRP
SRLNKDEYEFFTYLDKRTKPVLGSIIKSLRNDIGATVHELSRDKEKNTVPWFPRTIQELDRFANQILS
YGAELDADHPGFKDPVYRARRKQFADIAYNYRHGQPIPRVEYTEEEKQTWGTVFRTLKALYKTHAC
YEHNHIFPLLEKYCGFREDNIPQLEDVSQFLQTCTGFRLRPVAGLLSSRDFLGGLAFRVFHCTQYIRH
GSKPMYTPEPDICHELLGHVPLFSDRSFAQFSQEIGLASLGAPDEYIEKLATIYWFTVEFGLCKEGDSI
KAYGAGLLSSFGELQYCLSDKPKLLPLELEKTACQEYSVTEFQPLYYVAESFSDAKEKVRTFAATIPRP
FSVRYDPYTQRVEVLDNTQQ
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train349
SQFDILCKTPPKVLVRQFVERFERPSGEKIASCAAELTYLCWMITHNGTAIKRATFMSYNTIISNSLSF
DIVNKSLQFKYKTQKATILEASLKKLIPAWEFTIIPYNGQKHQSDITDIVSSLQLQFESSEEADKGNSH
SKKMLKALLSEGESIWEITEKILNSFEYTSRFTKTKTLYQFLFLATFINCGRFSDIKNVDPKSFKLVQN
KYLGVIIQCLVTETKTSVSRHIYFFSARGRIDPLVYLDEFLRNSEPVLKRVNRTGNSSSNKQEYQLLKD
NLVRSYNKALKKNAPYPIFAIKNGPKSHIGRHLMTSFLSMKGLTELTNVVGNFSDKRASAVARTTYT
HQITAIPDHYFALVSRYYAYDPISKEMIALKDETNPIEEWQHIEQLKGSAEGSIRYPAWNGIISQEVLDY
LSSYINRRIGHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001110000000000000011111100000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111111111110000000000

00000000000000000000000000000000000000000000000000000000000011111
111
>DM_train350
MTDFYSLIPSAPKGRFDGIERAHTAEDVKRLRGSVEIKYSLAEMGANRLWKLIHEEDFVNALGALSG
NQAMQMVRAGLKAIYLSGWQVAADANTASAMYPDQSLYPANAGPELAKRINRTLQRADQIETAEGK
GLSVDTWFAPIVADAEAGFGDPLDAFEIMKAYIEAGAAGVHFEDQLASEKKCGHLGGKVLIPTAAHIR
NLNAARLAADVMGTPTLIVARTDAEAAKLLTSDIDERDQPFVDYEAGRTAEGFYQVKNGIEPCIARAI
AYAPYCDLIWMETSKPDLAQARRFAEAVHKAHPGKLLAYNCSPSFNWKKNLDDATIAKFQRELGA
MGYKFQFITLAGFHQLNYGMFELARGYKDRQMAAYSELQQAEFAAEADGYTATKHQREVGTGYFDA
VSLAITGGQSSTTAMKESTETAQFKPAAE
11000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111111111111111100000000000000000000000000000000000
00000011100000000000000000000000001111111100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111000000000001111111111111111111
111
>DM_train352
VDFHGYARSGIGWTGSGGEQQCFQATGAQSKYRLGNECETYAELKLGQEVWKEGDKSFYFDTNVAY
SVNQQNDWESTDPAFREANVQGKNLIEWLPGSTIWAGKRFYQRHDVHMIDFYYWDISGPGAGIENI
DLGFGKLSLAATRSTEAGGSYTFSSQNIYDEVKDTANDVFDVRLAGLQTNPDGVLELGVDYGRANTT
DGYKLADGASKDGWMFTAEHTQSMLKGYNKFVVQYATDAMTTQGKGQARGSDGSSSFTEELSDGT
KINYANKVINNNGNMWRILDHGAISLGDKWDLMYVGMYQNIDWDNNLGTEWWTVGVRPMYKW
TPIMSTLLEVGYDNVKSQQTGDRNNQYKITLAQQWQAGDSIWSRPAIRIFATYAKWDEKWGYIKDG
DNISRYAAATNSGISTNSRGDSDEWTFGAQMEIWW
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train353
ELDGKAPSHRNLNVQTWSTAEGAKVLFVEARELPMFDLRLIFAAGSSQDGNAPGVALLTNAMLNEG
VAGKDVGAIAQGFEGLGADFGNGAYKDMAVASLRSLSAVDKREPALKLFAEVVGKPTFPADSLARIK
NQMLAGFEYQKQNPGKLASLELMKRLYGTHPYAHASDGDAKSIPPITLAQLKAFHAKAYAAGNVVIA
LVGDLSRSDAEAIAAQVSAALPKGPALAKIEQPAEPKASIGHIEFPSSQTSLMLAQLGIDRDDPDYAAV
SLGNQILGGGGFGTRLMSEVREKRGLTYGVYSGFTPMQARGPFMINLQTRAEMSEGTLKLVQDVFAE
YLKNGPTQKELDDAKRELAGSFPLSTASNADIVGQLGAMGFYNLPLSYLEDFMRQSQELTVEQVKAA
MNKHLNVDKMVIVSAGPTVAQKPL
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0011111000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train354
MMEYKIVENGLTYRIGNGASVPISNTGELIKGLRNYGPYEVPSLKYNQIALIHNNQFSSLINQLKSQISS
KIDEVWHIHNINISEFIYDSPHFDSIKSQVDNAIDTGVDGIMLVLPEYNTPLYYKLKSYLINSIPSQFMR
YDILSNRNLTFYVDNLLVQFVSKLGGKPWILNVDPEKGSDIIIGTGATRIDNVNLFCFAMVFKKDGTM
LWNEISPIVTSSEYLTYLKSTIKKVVYGFKKSNPDWDVEKLTLHVSGKRPKMKDGETKILKETVEELK
KQEMVSRDVKYAILHLNETHPFWVMGDPNNRFHPYEGTKVKLSSKRYLLTLLQPYLKRNGLEMVT
PIKPLSVEIVSDNWTSEEYYHNVHEILDEIYYLSKMNWRGFRSRNLPVTVNYPKLVAGIIANVNRYGG
YPINPEGNRSLQTNPWFL
1111111111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001111111100000000000000000011111111110000000000000000
0000000000000000000000000000000000000000000000000000000011111100000000
0
>DM_train355
TEAAAQPHALPADAPDIAPERDLLSKFDGLIAERQKLLDSGVTDPFAIVMEQVKSPTEAVIRGKDTIL
LGTYNYMGMTFDPDVIAAGKEALEKFGSGTCGSRMLNGTFHDHMEVEQALRDFYGTTGAIVFSTGY
MANLGIISTLAGKGEYVILDADSHASIYDGCQQGNAEIVRFRHNSVEDLDKRLGRLPKEPAKLVVLEG
VYSMLGDIAPLKEMVAVAKKHGAMVLVDEAHSMGFFGPNGRGVYEAQGLEGQIDFVVGTFSKSVGT
VGGFVVSNHPKFEAVRLACRPYIFTASLPPSVVATATTSIRKLMTAHEKRERLWSNARALHGGLKAM
GFRLGTETCDSAIVAVMLEDQEQAAMMWQALLDGGLYVNMARPPATPAGTFLLRCSICAEHTPAQI
QTVLGMFQAAGRAVGVIGLEHHHHHH
1111111111111111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000001111111
1
>DM_train356
GHHHHHHMTTQLEQAWELAKQRFAAVGIDVEEALRQLDRLPVSMHCWQGDDVSGFENPEGSLTG
GIQATGNYPGKARNASELRADLEQAMRLIPGPKRLNLHAIYLESDTPVSRDQIKPEHFKNWVEWAK
ANQLGLDFNPSCFSHPLSADGFTLSHADDSIRQFWIDHCKASRRVSAYFGEQLGTPSVMNIWIPDGM
KDITVDRLAPRQRLLAALDEVISEKLNPAHHIDAVESKLFGIGAESYTVGSNEFYMGYATSRQTALCL
DAGHFHPTEVISDKISAAMLYVPQLLLHVSRPVRWDSDHVVLLDDETQAIASEIVRHDLFDRVHIGL
DFFDASINRIAAWVIGTRNMKKALLRALLEPTAELRKLEAPGDYTARLALLEEQKSLPWQAVWEMY
CQRHDTPAGSEWLESVRAYEKEILSRRG
1111111110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train357
GMKVTNYQGATIDPYSKGLGMVPGTSIQLTDAARLEWNLLNEDVSLPAAVLYADRVEHNLKWMQA
FVAEYGVKLAPHGKTTMAPQLFRRQLETGAWGITLATAHQVRAAYHGGVSRVLMANQLVGRRNM
MMVAELLSDPEFEFFCLVDSVEGVEQLGEFFKSVNKQLQVLLELGVPGGRTGVRDAAQRNAVLEAIT
RYPDTLKLAGVELYEGVLKEEHEVREFLQSAVAVTRELVEQERFARAPAVLSGAGSAWYDVVAEEFV
KASETGKVEVVLRPGCYLTHDVGIYRKAQTDIFARNPVAKKMGEGLLPALQLWAYVQSIPEPDRAIIG
LGKRDSAFDAGMPEPARHYRPGNEAPRDIAASEGWEIFGLMDQHAYLRIPAGADLKVGDMIAFDIS
HPCLTFDKWRQVLVVDPAYRVTEVIETFF
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train358
MKNTTLYTYRDYFVIRGGKPLTGKVKISGAKNAALPIMFATILTEEPCTITNVPDLLDVRNTLLLLREL
GAELEFLNNTVFINPSINSFITNQEIIRRMRASVLSLGPLLGRFGRAVVGLPGGCSIGARPIDQHLKFFK
EAGADVEVREGYVYVNLKEKRRVHFKFDLVTVTGTENALLYLASVPEESILENIALEPEVMDLIEVLK
KMGAHVKVEGRSAYVKGSENLKGFTHSVIPDRIEAGTFMVGAVLTDGEILLENARINHLRAVVEKLK
LIGGEVVEENGNLRVFRKESLRACDIETQVYPGFPTDMQAQFMALLSVAKGKSRIKENIFEHRFHHA
QELNRLGANITVRGNTAYVEGVERLYGSEVYSTDLRASASLVLAGLVAQGETVVRDVYHLDRGYEKLE
EKLKKLGADIERVSEL
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001
>DM_train359
GSMSFIPVAEDSDFPIQNLPYGVFSTQSNPKPRIGVAIGDQILDLSVIKHLFTGPALSKHQHVFDETTL
NNFMGLGQAAWKEARASLQNLLSASQARLRDDKELRQRAFTSQASATMHLPATIGDYTDFYSSRQH
ATNVGIMFRGKENALLPNWLHLPVGYHGRASSIVVSGTPIRRPMGQMRPDNSKPPVYGACRLLDME
LEMAFFVGPGNRFGEPIPISKAHEHIFGMVLMNDWSARDIQQWEYVPLGPFLGKSFGTTISPWVVP
MDALMPFVVPNPKQDPKPLPYLCHSQPYTFDINLSVSLKGEGMSQAATICRSNFKHMYWTMLQQL
THHSVNGCNLRPGDLLASGTISGSDPESFGSMLELSWKGTKAIDVGQGQTRTFLLDGDEVIITGHCQ
GDGYRVGFGQCAGKVLPALSPAGS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000011111
>DM_train360
MSSGVDLGTENLYFQSNAMYMAQPGHIDHIKQINAGRVYKLIDQKGPISRIDLSKESELAPASITKITR
ELIDAHLIHETTVQEAISRGRPAVGLQTNNLGWQFLSMRLGRGYLTIALHELGGEVLIDTKIDIHEIDQ
DDVLARLLFEIEEFFQTYAAQLDRVTSIAITLPGLVNSEQGIVLQMPHYNVKNLALGPEIYKATGLPVF
VANDTRAWALAEKLFGHSQDVDNSVLISIHHGLGAGIVLDGRVLQGRHGNIGELGHIQIDPQGKRCH
CGNYGCLETVASSQAIRDQVTARIQAGEPSCLATVEEISIEDICAAAADGDPLAVDVIQQLGRYLGAAIA
IVINLFNPEKILIGGVINQAKSILYPSIEQCIREQSLPVYHQDLKLVESRFYKQATMPGAALIKQALYDGL
LLMKVVEG
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train361
SGDFSLLSSPINREKNGTEIVKFSIHPYKGTVIRLGEEILPFKVLEMDKNIALVEMAIPVYKDEKEIELK
LSSPGFQNSSYRIRKPEELNEKLIALDKEGITHRFISRFKTGFQPKSVRFIDNTRLAIPLLEDEGMDVL
DINSGQTVRLSPPEKYKKKLGFVETISIPEHNELWVSQMQANAVHVFDLKTLAYKATVDLTGKWSKI
LLYDPIRDLVYCSNWISEDISVIDRKTKLEIRKTDKIGLPRGLLLSKDGKELYIAQFSASNQESGGGRLG
IYSMDKEKLIDTIGPPGNKRHIVSGNTENKIYVSDMCCSKIEVYDLKEKKVQKSIPVFDKPNTIALSPD
GKYLYVSCRGPNHPTEGYLKKGLVLGKVYVIDTTTDTVKEFWEAGNQPTGLDVSPDNRYLVISDFLD
HQIRVYRRDGF
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train362
MRVLVRDLKAHVGQEVELLGFLHWRRDLGRIQFLLLRDRSGVVQVVTGGLKLPLPESALRVRGLVV
ENAKAPGGLEVQAKEVEVLSPALEPTPVEIPKEEWRANPDTLLEYRYVTLRGEKARAPLKVQAALVR
GFRRYLDRQDFTEIFTPKVVRAGAEGGSGLFGVDYFEKRAYLAQSPQLYKQIMVGVFERVYEVAPVW
RMEEHHTSRHLNEYLSLDVEMGFIADEEDLMRLEEALLAEMLEEALNTAGDEIRLLGATWPSFPQD
IPRLTHAEAKRILKEELGYPVGQDLSEEAERLLGEYAKERWGSDWLFVTRYPRSVRPFYTYPEEDGT
TRSFDLLFRGLEITSGGQRIHRYEELLESLKAKGMDPEAFHGYLEVFKYGMPPHGGFAIGAERLTQKL
LGLPNVRYARAFPRDRHRLTP
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111000000000000000000000000000000
00000001111111111111111111111111111000000000000000000011111111111110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111
>DM_train363

GSQSRSIQTFPQPDTSVINGPDRPAGIPDPAGTTVAGGGAVYTVVPHLSMPHWAAQDFAKSLQSFRL
GCANLKNRQGWQDVCAQAFQTPIHSFQAKRFFERYFTPWQVAGNGSLAGTVTGYYEPVLKGDGRR
TERARFPIYGIPDDFISVPLPAGLRGGKNLVRIRQTGKNSGTIDNAGGTHTADLSRFPITARTTAIKGRF
EGSRFLPYHTRNQINGGALDGKAPILGYAEDPVELFFMHIQGSGRLKTPSGKYIRIGYADKNEHPYVSI
GRYMADKGYLKLGQTSMQGIKAYMRQNPQRLAEVLGQNPSYIFFRELAGSGGDGPVGALGTPLMGE
YAGAIDRHYITLGAPLFVATAHPVTRKALNRLIMAQDTGSAIKGAVRVDYFWGYGDEAGELAGKQKT
TGYVWQLLPNGMKPEYRP
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000001111111100000000000111111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train365
MGLPPLLSLPSNSAPRSLGRVETPPEVVDFMVSLAEAPRGGRVLEPACAHGPFLRAFREAHGTGYRF
VGVEIDPKALDLPPWAEGILADFLLWEPGEAFDLILGNPPYGIVGEASKYPIHVFKAVKDLYKKAFST
WKGKYNLYGAFLEKAVRLLKPGGVLVFVVPATWLVLEDFALLREFLAREGKTSVYYLGEVFPQKKVS
AVVIRFQKSGKGLSLWDTQESESGFTPILWAEYPHWEGEIIRFETEETRKLEISGMPLGDLFHIRFAA
RSPEFKKHPAVRKEPGPGLVPVLTGRNLKPGWVDYEKNHSGLWMPKERAKELRDFYATPHLVVAH
TKGTRVVAAWDERAYPWREEFHLLPKEGVRLDPSSLVQWLNSEAMQKHVRTLYRDFVPHLTLRML
ERLPVRREYGFHTSPESARNF
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111
>DM_train366
MSRTVMERIEYEMHTPDPKADPDKLHFVQIDEAKCIGCDTCSQYCPTAAIFGEMGEPHSIPHIEACIN
CGQCLTHCPENAIYEAQSWVPEVEKKLKDGKVKCIAMPAPAVRYALGDAFGMPVGSVTTGKMLAAL
QKLGFAHCWDTEFTADVTIWEEGSEFVERLTKKSDMPLPQFTSCCPGWQKYAETYYPELLPHFSTC
KSPIGMNGALAKTYGAERMKYDPKQVYTVSIMPCIAKKYEGLRPELKSSGMRDIDATLTTRELAYMI
KKAGIDFAKLPDGKRDSLMGESTGGATIFGVTGGVMEAALRFAYEAVTGKKPDSWDFKAVRGLDGI
KEATVNVGGTDVKVAVVHGAKRFKQVCDDVKAGKSPYHFIEYMACPGGCVCGGGQPVMPGVLEAM
DRTTTRLYAGLKKRLAMASANKA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111111111111111111
>DM_train367
MGSDKIHHHHHHMKEKVVLAYSGGLDTSVILKWLCEKGFDVIAYVANVGQKDDFVAIKEKALKTGA
SKVYVEDLRREFVTDYIFTALLGNAMYEGRYLLGTAIARPLIAKRQVEIAEKEGAQYVAHGATGKGND

QVRFELTYAALNPNLKVISPWKDPEFLAKFKGRTDLINYAMEKGIPIKVSKKRPYSEDENLMHISHEA
GKLEDPAHIPDEDVFTWTVSPKDAPDEETLLEIHFENGIPVKVVNLKDGTEKTDPLELFEYLNEVGA
KNGVGRLDMVENRFIGIKSRGVYETPGATILWIAHRDLEGITMDKEVMHLRDMLAPKFAELIYNGF
WFSPEMEFLLAAFRKAQENVTGKVTVSIYKGNVMPVARYSPYSLYNPELSSMDVEGGFDATDSKGFI
NIHALRLKVHQLVKKGYQR
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111110000000000000000000000011111
>DM_train368
MSRNPSNSDAAHAFWSTQPVPQTEDETEKIVFAGPMDEPKTVADIPEEPYPIASTFEWWTPNMEA
ADDIHAIYELLRDNYVEDDDSMFRFNYSEEFLQWALCPPSYIPDWHVAVRRKADKKLLAFIAGVPV
TLRMGTPKYMKVKAQEKGQEEEAAKYDAPRHICEINFLCVHKQLREKRLAPILIKEVTRRVNRTNV
WQAVYTAGVLLPTPYASGQYFHRSLNPEKLVEIRFSGIPAQYQKFQNPMAMLKRNYQLPNAPKNSGL
REMKPSDVPQVRRILMNYLDNFDVGPVFSDAEISHYLLPRDGVVFTYVVENDKKVTDFFSFYRIPST
VIGNSNYNILNAAYVHYYAATSMPLHQLILDLLIVAHSRGFDVCNMVEILDNRSFVEQLKFGAGDGHL
RYYFYNWAYPKIKPSQVALVML
11111111110000000000000000000000000000000000000000000000000000000000
00000000001110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train371
MFVFMLLLLLPFTISKAKDFPANPIEKAGYKLDFSDEFNGPTLDREKWTDYYLPHWCKDPESAKAN
YRFENGSLVEYITEDQKPWCPEHDGTVRSSAIMSFDKSWIHNFSGTTDNHERNEWRGYTTKYGYFE
IRAKLSNTGGGGHQAWWMVGMQDDTNDWFNSKQTGEIDILETFFSKKDTWRIAAYGWNDPNFQT
SWTISEDKVPSGDPTSEYHIYAMEWTPTALKFYYDNELFKVIYGSPDYEMGTILNIYTDAGSGAHND
VWPKEWAIDYMRVWKPVDGYKESESLNNYLIRNRQTGKFLYIEENNDKVSYGDITLKNEKNAKWS
KEYRDGYTLLKNNETGEYLNIENQTGYIEHGKVPKTWWSAQWSEVPVDGYTRFVNRWKPNMSIH
TESYEGVLQYGNVPNTYWTSQWQLIPVE
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train373
MIDLSKTVFYTSIDIGSRYIKGLVLGKRDQEWEALAFSSVKSRGLDEGEIKDAIAFKESVNTLLKELEE
QLQKSLRSDFVISFSSVSFEREDTVIERDFGEEKRSITLDILSEMQSEALEKLKENGKTPLHIFSKRYLL
DDERIVFNPLDMKASKIAIEYTSIVVPLKVYEMFYNFLQDTVKSPFQLKSSLVSTAEGVLTTPEKDRG
VVVVNLGYNFTGLIAYKNGVPIKISYVPVGMKHVIKDVSAVLDTSFEESERLIITHGNAVYNDLKEEEI

QYRGLDGNTIKTTTAKKLSVIIHARLREIMSKSKKFFREVEAKIVEEGEIGIPGGVVLTGGGAKIPRINE
LATEVFKSPVRTGCYANSDRPSIINADEVANDPSFAAAFGNVFAVSENPYEETPVKSENPLKKIFRLFK
ELME
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111000000000000000000000000000000
00000000000000000000000000000000111111111111111111111111111111111111
>DM_train375
MAAKNAFYAQSGGVTAVINASAAGVIEAARKQSGKIGRIYAGRNGIIGALTEDLIDTGQESDAAISALRY
TPSGAFGSCRYKLKSLEQNRREYERLIEVFKAHDIGYFFYNGGGDSADTCLKVSQLSGTLGYPIQAIHV
PKTVDNDLPITDCCPGFGSVAKYIAVSTLEASFDVASMSATSTKVFVLEVMGRHAGWIAAAGGLASSP
EREIPVVILFPEISFDKQKFLAKVDSCVKKFGYCSVVVSEGVKGDDGKFLSDQGVRDAFGHAQLGGVA
PVVASMVKEGLGLKYHWGVADYLQRAARHIASKTDVEQAYAMGQAAVEFAVQGHNSVMPTIERISA
RPYQWKVGMAQLSQVANVEKMMPENFITEDGFGITDLCREYLAPLIEGEDYPPYKDGLPDYVRLKN
VAVPKKLSGFTL
10000000000000000000000000000000000000000000000000000000000000000000
00000000001111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111111111111111000000000000000
00000000000000000000000000000000000000000000000000010000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train376
MGDKGTRVFKKASPNGKLTVYLGKRDFVDHIDLVEPVDGVVLVDPEYLKERRVYVTLTCAFRYGRED
LDVLGLTFRKDLFVANVQSFPPAPEDKKPLTRLQERLIKKLGEHAYPFTFEIPPNLPCSVTLQPGPED
TGKACGVDYEVKAFCAENLEEKIHKRNSVRLVIRKVQYAPERPGPQPTAETTRQFLMSDKPLHLEAS
LDKEIYYHGEPISVNVHVTNNTNKTVKKIKISVRQYADICLFNTAQYKCPVAMEEADDTVAPSSTFCK
VYTLTPFLANNREKRGLALDGKLKHEDTNLASSTLLREGANREILGIIVSYKVKVKLVVSRGGLLGDL
ASSDVAVELPFTLMHPKPKEEPPHREVPEHETPVDTNLIELDTNDDDIVFEDFARQRLKGMKDDKE
EEEDGTGSPRLNDR
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111110000000000000000
11111111111111111111111111100000000000000000111111111111111111
>DM_train377
GSHMTNYKEKLQQYAELLVKVGMNVQPKQPVFIRSSVETLELTHLIVEEAYHCGASDVRVVYSDPTL
KRLKFENESVEHFANHEIKSYDVEARMDYVKRGAANLALISEDPDLMDGIDSQKLQAFQQQNARAF
KGYMESVQKNQFPWVVAAFPSKAWAKRVYPELSVEEAYIKFIDEVFDIVRIDGNDPVENWRQHIAN
LSVYAQKLQQKNYHALHYVSEGTDLTVGLAKNHIWEDATSYVNGKEQAFIANIPTEEVFTAPDRNRV
DGYVTNKLPLSYNGTIIDQFKLMFKDGEIIDFSAEKGEAVLKDLINTDEGSRRLGEVALVPDDSPISNR
NTIFYNTLFDENAACHLAIGSAYAFNIQGGTEMTVEEKIASGLNDSNVHVDFMIGSSDLTIYGIFEDGS

KELVFENGNWASTF
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
>DM_train378
MSLSTPLQGIKVLDFTGVQSGPSCTQMLAWFGADVIKIERPGVGDVTRHQLRDIPDIDALYFTMLNS
NKRSIELNTKTAEGKEVMEKLIREADILVENFHPGAIDHMGFTWEHIQEINPRLIFGSIKGFDECSPY
VNVKAYENVAQAAGGAASTTGFWDGPPLVSAAALGDSNTGMHLLIGLLAALLHREKTGRGQRVTM
SMQDAVLNLCRVKLRDQQRLDKLGYLEEYPQYPNGTFGDAVPRGGNAGGGGQPGWILKCKGWETD
PNAYIYFTIQEQNWENTCKAIGKPEWITDPAYSTAHARQPHIFDIFAEIEKYTVTIDKHEAVAYLTQFD
IPCAPVLSMKEISLDPSLRQSGSVVEVEQPLRGKYLTVGCPMKFSAFTPDIKAAPLLGEHTAAVLQEL
GYSDDEIAAMKQNHAI
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001111111000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
>DM_train379
SESPWIAEDTSQIQTKLLEFAKSPEVFDWMVKIRRKIHENPELGYEELETSKLIRSELELIGIKYRYPV
AITGVIGYIGTGEPPFVALRADMDALPIQEGVEWEHKSKIAGKMHACGHDGHVTMLLGAAKILHEH
RHHLQGTVVLIFQPAEEGLSGAKKMREEGALKNVEAIFGIHLSARIPFGKAASRAGSFLAGAGVFEAV
ITGKGGHAAIPQHTIDPVVAASSIVLSLQQLVSRETDPLDSKVVTVSKVNGGNAFNVIPDSITIGGTLR
AFTGFTQLQQRVKEVITKQAAVHRCNASVNLTPNGREPMPPTVNNKDLYKQFKKVVRDLLGQEAFV
EAAPVMGSEDFSYFAETIPGHFSLLGMQDETNGYASSHSPLYRINEDVLPYGAAIHASMAVQYLKEKA
SKGSVSGFHEEL
1111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
1110000000000000000000000000000000000011111111000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111111
>DM_train381
TSPTTTSTGTGTGSSTDQAISPLVEGENAPEVTTAKLGFIALTDAAPLIIAKEKGFYAKYGMPDVEVLK
QASWGTTRDNLVLGSASGGIDGAHILTPMPYLITMGTVTDGKPTPMYILARLNVNGQGIQLGNNYK
DLKVGTDAAPLKEAFAKVTDPKVAMTFPGGTHDMWIRYWLAAGGMEPGKDFSTIVVPPAQMVAN
VKVNAMESFCVGEPWPLQTVNQGVGYQALTTGQLWKDHPEKAFGMRADWVDQNPKAAKALLMA
VMEAQQWCDQAENKEEMCQILSKREWFKVPFEDIIDRSKGIYNFGNGQETFEDQEIMQKYWVDNA
SYPYKSHDQWFLTENIRWGYLPASTDTKAIVDKVNREDLWREAAQALEVPADQIPSSPSRGIETFFD
GITFDPENPQAYLDSLKIKSIKA
1111111111111111111111111110000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111
>DM_train382
MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGR
PDGVPMPDKYSLEPVAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGK
DASGNKVKAEPAKIEAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAK
ALESPERPFLAILGGAKVADKIQLINNMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVK
DLMSKAEKNGVKITLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPESSKKYAEAVTRAKQ
IVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGGGAS
LELLEGKVLPGVDALSNI
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111111111111000000000000000000000000000000
>DM_train385
CGSSSHETSYGYATLSYADYWAGELGQSRDVLLAGNAEADRAGDLDAGMFDAVSRATHGHGAFRQQ
FQYAVEVLGEKVLSKQETEDSRGRKKWEYETDPSVTKMVRASASFQDLGEDGEIKFEAVEGAVALAD
RASSFMVDSEEYKITNVKVHGMKFVPVAVPHELKGIAKEKFHFVEDSRVTENTNGLKTMLTEDSFS
ARKVSSMESPHDLVVDTVGTGYHSRFGSDAEASVMLKRADGSELSHREFIDYVMNFNTVRYDYYGD
DASYTNLMASYGTKHSADSWWKTGRVPRISCGINYGFDRFKGSGPGYYRLTLIANGYRDVVADVRFL
PKYEGNIDIGLKGKVLTIGGADAETLMDAAVDVFADGQPKLVSDQAVSLGQNVLSADFTPGTEYTVE
VRFKEFGSVRAKVVAQ
111111000000000000000000000000001111111110000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train386
MGSDKIHHHHHHPEQQVQQFAQLPVGFKNMGNTCYLNATLQALYRVNDLRDMILNYNPSQGVSNS
GAQDEEIHKQIVIEMKRCFENLQNKSFKSVLPVVLLNTLRKCYPQFAERDSQGGFYKQQDAEELFTQ
LFHSMSIVFGDKFSEDFRIQFKTTIKDTANDNDITVKENESDSKLQCHISGTTNFMRNGLLEGLNEKI
EKRSDLTGANSIYSVEKKISRLPKFLTVQYVRFFWKRSTNKKSKILRKVVFPFQLDVADMLTPEYAAE
KVKVRDELRKVEKEKNEKEREIKRRKFDPSSSENVMTPREQYETQVALNESEKDQWLEEYKKHFP
PNLEKGENPSCVYNLIGVITHQGANSESGHYQAFIRDELDENKWYKFNDDKVSVVEKEKIESLAGGG
ESDSALILMYKGFGL
111111111111111111000000000000000000000000000000000000000000000000000000
000000000000000000010000000000000000000000011110000000000000000000000000
000000000000000000000000000000000000000000000000000000000011111111100000

000000000000000000000000000000000000000000000000000000000000000000000000000000
001111111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train387
MSSKPKYVQDQEMIPGVYWVGIVDWMVRIFHGYHTDEGSSYNSYFIDDECPTVIDSVKYPFAEEWL
SRIAACCPLDKIKYVVMNHAEGDHASSLKDHYHKFTNATFVCTKKCQEHLKILYGMEKATWLIVDD
KYTLKIGKRTLKFIPVPLLHWPDSTFTYCPEDKILFSNDGFGQHYATSRRWADECDVSHVMHLFKEY
TANILGLFSAQMRKALEVASTVEIKYILSAHGVSWRGDAMGLAIAEYDRWSKGQHCQKKVTVVLDS
MYGTTHRMALALLDGARSTGCETVLLEMTSSDITKVALHTYDSGAVAFASPTLNNTMMPSVAAALN
YVRGLTLIKGKPAFAFGAFGWSNRAVPDIVAELRDGCKADVYDEKGITFKFNYTEELLEQAYNAGVDL
GKRAIAYCEKNAPKQ
111110000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train388
MGQLFSSPKSDENNDLPSSFTGYFKKFNTGRKIISQEILNLIELRMRAGNIQLTNSAISDALKEIDSSVL
NVAVTGETGSGKSSFINTLRGIGNEEEGAAKTGVVEVTMERHPYKHPNIPNVVFWDLPGIGSTNFPP
DTYLEKMKFYEYDFFIIISATRFKKNDIDIAKAISMMKKEFYFVRTKVDSDITNEADGEPQTFDKEKV
LQDIRLNCVNTFRENGIAEPPIFLLSNKNVCHYDFPVLMDKLISDLPIYKRHNFMVSLPNITDSVIEK
KRQFLKQRIWLEGFAADLVNIIPSLTFLLDSDLETLKKSMKFYRTVFGVDETSLQRLARDWEIEVDQ
VEAMIKSPAVFKPTDEETIQERLSRYIQEFCLANGYLLPKNSFLKEIFYLKYYFLDMVTEDAKTLLKEI
CLRN
111111111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train389
KIQGGSVVEMQGDEMTRIIWELIKEKLILPYVELDLHSYDLGIENRDATNDQVTKDAAEAIKKYNVG
VKCATITPDEKRVEEFKLKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVTGWVKPIIIGRHAYGDQY
RATDFVVPGPGKVEITYTPKDGTQKVTYMVHDFEEGGGVAMGMYNQDKSIEDFAHSSFQMALSKG
WPLYLSTKNTILKKYDGRFKDIFQEIYDKKYKSQFEAQNICYEHRLIDDMVAQAMKSEGGFIWACKN
YDGDVQSDSVAQGYGSLGMMTSVLICPDGKTVEAEAAHGTVTRHYRMYQKGQETSTNPIASIFAWS
RGLAHRAKLDNNTELSFFAKALEDVCIETIEAGFMTKDLAACIKGLPNVQRSDYLNTFEFMDKLGEN
LKAKLAQAK
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000001
>DM_train390
ADGQQGAPLNSPNTYDVTTWRIKAHPEVTAQSDIGAVINDIIADIKQRQTSPDARPGAAIIIPPGDYD
LHTQVVVDVSYLTIAGFGHGFFSRSILDNSNPTGWQNLQPGASHIRVLTSPSAPQAFLVKRAGDPRLS
GIVFRDFCLDGVGFTPGKNSYHNGKTGIEVASDNDSFHITGMGFVYLEHALIVRGADALRVNDNMIA
ECGNCVELTGAGQATIVSGNHMGAGPDGVTLLAENHEGLLVTGNNLFPRGRSLIEFTGCNRCSVTSN
RLQGFYPGMLRLLNGCKENLITANHIRRTNEGYPPFIGRGNGLDDLYGVVHIAGDNNLISDNLFAYNV
PPANIAPAGAQPTQILIAGGDANVVALNHVVSDVASQHVVLDASTTHSKVLDSGTASQITSYSSDTAIR
PTP
111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train391
MSVFDSKFKGIHVYSEIGELESVLVHEPGREIDYITPARLDELLFSAILESHDARKEHKQFVAELKAND
INVVELIDLVAETYDLASQEAKDKLIEEFLEDSEPVLSEEHKVVVRNFLKAKKTSRELVEIMMAGITK
YDLGIEADHELIVDPMPNLYFTRDPFASVGNGVTIHYMRYKVRQRETLFSRFVFSNHPKLINTPWYY
DPSLKLSIEGGDVFIYNNDTLVVGVSERTDLQTVTLLAKNIVANKECEFKRIVAINVPKWTNLMHLD
TWLTMLDKDKFLYSPIANDVFKFWDYDLVNGGAEPQPVENGLPLEGLLQSIINKKPVLIPIAGEGAS
QMEIERETHFDGTNYLAIRPGVVIGYSRNEKTNAALEAAGIKVLPFHGNQLSLGMGNARCMSMPLS
RKDVKW
100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train392
GMNNIQAIRKKVETQIDDLQNKTDEIAEFNQAKVLDAFQENKVSDFHFHPSTGYGYDDEGRDTLER
VYATVFKTEAALVRPQIISGTHAISTVLFGILRPDDELLYITGQPYDTLEEIVGIRKQGQGSLKDFHIGYS
SVPLLENGDVDFPRIAKKMTPKTKMIGIQRSRGYADRPSFTIEKIKEMIVFVKNINPEVIVFVDNCYGE
FVEYQEPPEVGADIIAGSLIKNPGGGLAKTGGYIAGKEALVDLCGYRLTTPGIGREAGASLYSLLEMYQ
GFFLAPHVTAQAIKGARFTAAMLAEFGVEADPVWDAPRTDLIQSVSFHNKEKMVAFAQAIQAASPV
NAHVLPIGAYMPGYEDDVIMAAGTFIQGASLELTADGPIREPYQLYVQGGLTYEHIKIAVTRAIQKIV
111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
001100000000000000000011111110000000000000000000000001
>DM_train393
APQVVDKVAAVVNNGVVLESDVDGLMQSVKLNAAQARQQLPDDATLRHQIMERLIMDQIILQMGQ

KMGVKISDEQLDQAIANIAKQNNMTLDQMRSRLAYDGLNYNTYRNQIRKEMIISEVRNNEVRRRITI
LPQEVESLAQQVGNQNDASTELNLSHILIPLPENPTSDQVNEAESQARAIVDQARNGADFGKLAIAH
SADQQALNGGQMGWGRIQELPGIFAQALSTAKKGDIVGPIRSGVGFHILKVNDLRGESKNISVTEVHA
RHILLKPSPIMTDEQARVKLEQIAADIKSGKTTFAAAAKEFSQDPGSANQGGDLGWATPDIFDPAFR
DALTRLNKGQMSAPVHSSFGWHLIELLDTRNVDKTDAAQKDRAYRMLMNRKFSEEAASWMQEQR
ASAYVKILSN
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111111111000000000000000000000000000
>DM_train394
MLFDEKEILAITRWAKLYANQSPDRILLGSNDIPPEYRAAVATQIELWPRLRNKLPQWAGISSLYIPSR
LSLEQSSGAVTSSYKSRFIREGTKVVDLTGGLGIDFIALMSKASQGIYIERNDETAVAARHNIPLLLNEG
KDVNILTGDFKEYLPLIKTFHPDYIYVDPARRSGADKRVYAIADCEPDLIPLATELLPFCSSILAKLSPM
IDLWDTLQSLLHVQELHVVAAHGEVKELLVRMSLNEATIPPEKVPIHAINLLLEDTVIPFIFTMEEER
SISIPYTDSIDKYVYEPHTALLKAGAFKTVAYRLGLRKLHPNSHLYTSEAYESAFPGRTFVLEEIIPFSTS
VLKQLRKVVPQASISCRNFPLSPIELRQRSKMADGGEKTLMGTTMADGKKVLLLLRKAE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111100000000000000000000000000000000000
00000000000000000000000000000000000000000000100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000
>DM_train395
PGSSVSGTFGCLGGRLTIPGTGVSLLVPNGAIPQGKFYDLYLRINKTESTLPLSEGSQTVLSPSVTCGPT
GLLLCRPVVLTVPHCAEVIAGDWIFQLKTQAHQGHWEEVVTLDEETLNTPCYCQLEAKSCHILLDQL
GTYVFTGESYSRSAVKRLQLAIFAPALCTSLEYSLRVYCLEDTPAALKEVLELERTLGGYLVEEPKPLLF
KDSYHNLRLSLHDIPHAHWRSKLLAKYQEIPFYHVWNGSQKALHCTFTLERHSLASTEFTCKVCVR
QVEGEGQIFQLHTTLAETPAGSLDALCSAPGNAATTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWR
LLAQKLSMDRYLNYFATKASPTGVILDLWEARQQDDGDLNSLASALEEMGKSEMLVAMTTDGDC
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111
>DM_train396
MADLLPEHPEFLWANPEPKKSYDAIIVGGGGHGLATAYFLAKNHGITNVAVLEKGWLAGGNMARNT
TIIRSNYLWDESAGIYEKSLKLWEQLPEDLEYDFLFSQRGVLNLAHTLGDVRESVRRVEANKLNGVD
AEWLDPSQVKEACPIINTSDDIRYPVMGATWQPRAGIAKHDHVAWAFARKANEMGVDIIQNCEVTG
FIKDGEKVTGVKTTRGTIHAGKVALAGAGHSSVLAEMAGFELPIQSHPLQALVSELFEPVHPTVVMS
NHIHVYVSQAHKGELVMGAGIDSYNGYGQRGAFHVIQEQMAAAVELFPIFARAHVLRTWGGIVDTT

MDASPIISKTPIQNLYVNCGWGTGGFKGTPGAGFTLAHTIANDEPHELNKPFSLERFETGHLIDEHG
AAAVAH
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train398
LHLDQTPSRQPIPSEGLQLHLPQVLADAVSRLVLGKFGDLTDNFSSPHARRKVLAGVVMTTGTDVKD
AKVISVSTGTKCINGEYMSDRGLALNDCHAEIISRRSLLRFLYTQLELYLNNKDDQKRSIFQKSERGGF
RLKENVQFHLYISTSPCGDARIFSPHEPILEEPADRHPNRKARGQLRTKIESGEGTIPVRSNASIQTWD
GVLQGERLLTMSCSDKIARWNVVGIQGSLLSIFVEPIYFSSIILGSLYHGDHLSRAMYQRISNIEDLPPL
YTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDSAIEVINATTGKDELGRASRLCKHALYCRWMRV
HGKVPSHLLRSKITKPNVYHESKLAAKEYQAAKARLFTAFIKAGLGAWVEKPTEQDQFSLTP
11111110000000111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111111000000000000000000011111111111111110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001
>DM_train399
MSTFNRIHLVVLDSVGIGAAPDANNFSNAGVPDGASDTLGHISKTVGLNVPNMAKIGLGNIPRDTPL
KTVPAENHPTGYVTKLEEVSLGKDTMTGHWEIMGLNITEPFDTFWNGFPEEIISKIEKFSGRKVIRE
ANKPYSGTAVIDDFGPRQMETGELIIYTSADPVLQIAAHEDVIPLDELYRICEYARSITLERPALLGRIIA
RPYVGKPRNFTRTANRHDYALSPFAPTVLNKLADAGVSTYAVGKINDIFNGSGITNDMGHNKSNSHG
VDTLIKTMGLSAFTKGFSFTNLVDFDALYGHRRNAHGYRDCLHEFDERLPEIIAAMKVDDLLLITAD
HGNDPTYAGTDHTREYVPLLAYSPSFTGNGVLPVGHYADISATIADNFGVDTAMIGESFLDKLI
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
11111111111100000000000000000000000000000000000000000000000000111111
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000
>DM_train400
SKKVKVSHRSHSTEPGLVLTLGQGDVGQLGLGENVMERKKPALVSIPEDVVQAEAGGMHTVCLSKSG
QVYSFGCNDEGALGRDTSVEGSEMVPGKVELQEKVVQVSAGDSHTAALTDDGRVFLWGSFRDNNGV
IGLLEPMKKSMVPVQVQLDVPVVKVASGNDHLVMLTADGDLYTLGCGEQGQLGRVPELFANRGGRQ
GLERLLVPKCVMLKSRGSRGHVRFQDAFCGAYFTFAISHEGHVYGFGLSNYHQLGTPGTESCFIPQNL
TSFKNSTKSWVGFSGGQHHTVCMDSEGKAYSLGRAEYGRLGLGEGAEEKSIPTLISRLPAVSSVACGA
SVGYAVTKDGRVFAWGMGTNYQLGTGQDEDAWSPVEMMGKQLENRVVLSVSSGGQHTVLLVKDKE
QS
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
11111100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111
>DM_train401
EKPGETKEVHPQLTTFRCTKRGGCKPATNFIVLDSLSHPIHRAEGLGPGGCGDWGNPPPKDVCPDVE
SCAKNCIMEGIPDYSQYGVTTNGTSLRLQHILPDGRVPSPRVYLLDKTKRRYEMLHLTGFEFTFDVDA
TKLPCGMNSALYLSEMHPTGAKSKYNPGGAYYGTGYCDAQCFVTPFINGLGNIEGKGSCCNSMDIWE
ANSRASHVAPHTCNKKGLYLCEGEECAFEGVCDKNGCGWNNYRVNVTDYYGRGEEFKVNTLKPFT
VVTQFLANRRGKLEKIHRFYVQDGKVIESFYTNKEGVPYTNMIDDEFCEATGSRKYMELGATQGMG
EALTRGMVLAMSIWWDQGGNMEWLDHGEAGPCAKGEGAPSNIVQVEPFPEVTYTNLRWGEIGST
YQELQ
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111
>DM_train402
GSMRICIFMARGLEGCGVTKFSLEQRDWFIKNGHEVTLVYAKDKSFTRTSSHDHKSFSIPVILAKEYD
KALKLVNDCDILIINSVPATSVQEATINNYKKLLDNIKPSIRVVVYQHDHSVLSLRRNLGLEETVRRAD
VIFSHSDNGDFNKVLMKEWYPETVSLFDDIEEAPTVYNFQPPMDIVKVRSTYWKDVSEINMNINR
WIGRTTTWKGFYQMFDFHEKFLKPAGKSTVMEGLERSPAFIAIKEKGIPYEYYGNREIDKMNLAPN
QPAQILDCYINSEMLERMSKSGFGYQLSKLNQKYLQRSLEYTHLELGACGTIPVFWKSTGENLKFRV
DNTPLTSHDSGIIWFDENDMESTFERIKELSSDRALYDREREKAYEFLYQHQDSSFCFKEQFDIITK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
01111111111111111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train403
MSEPIDILIAGAGIGGLSCALALHQAGIGKVTLLESSSEIRPLGVGINIQPAAVEALAELGLGPALAATAI
PTHELRYIDQSGATVWSEPRGVEAGNAYPQYSIHRGELQMILLAAVRERLGQQAVRTGLGVERIEER
DGRVLIGARDGHGKPQALGADVLVGADGIHSAVRAHLHPDQRPLSHGGITMWRGVTEFDRFLDGKT
MIVANDEHWSRLVAYPISARHAAEGKSLVNWVCMVPSAAVGQLDNEADWNRDGRLEDVLPFFAD
WDLGWFDIRDLLTRNQLILQYPMVDRDPLPHWGRGRITLLGDAAHLMYPMGANGASQAILDGIEL
AAALARNADVAAALREYEEARRPTANKIILANREREKEEWAAASRPKTEKSAALEAITGSYRNQVER
PR
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000111111111111111111110000
>DM_train404
MQRPSDQTAPGTSSRPILSAKEAQNFDAQHYFASLTPGAAAWNPSPITLPAQPDFVVGPAGTQGVTH
TTIQAAVDAAIIKRTNKRQYIAVMPGEYQGTVYVPAAPGGITLYGTGEKPIDVKIGLSLDGGMSPADW
RHDVNPRGKYMPGKPAWYMYDSCQSKRSDSIGVLCSAVFWSQNNGLQLQNLTIENTLGDSVDAGN
HPAVALRTDGDQVQINNVNILGRQNTFFVTNSGVQNRLETNRQPRTLVTNSYIEGDVDIVSGRGAVV
FDNTEFRVVNSRTQQEAYVFAPATLSNIYYGFLAVNSRFNAFGDGVAQLGRSLDVDANTNGQVVIRD
SAINEGFNTAKPWADAVISNRPFAGNTGSVDDNDEIQRNLNDTNYNRMWEYNNRGVGSKVVAEAK
K
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111111
>DM_train405
SSLDDKPQFPGASAEFIDKLEFIQPNVISGIPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNT
MDRILYESQRQGRISFYMTNYGEEGTHVGSAAALDNTDLVFGQAREAGVLMYRDYPLELFMAQCYG
NISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAAKRANANRVVICYFGEGAASEGDAH
AGFNFAATLECPIIFFCRNNGYAISTPTSEQYRGDGIAARGPGYGIMSIRVDGNDVFAVYNATKEARRR
AVAENQPFLIEAMTYRIGHASTSDDSSAFRSVDEVNYWDKQDHPISRLRHYLLSQGWWDEEQEKA
WRKQSRRKVMEAFEQAERKPKPNPNLLFSDVYQEMPAQLRKQQESLARHLQTYGEHYPLDHFDK
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000001100111111111111111111000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train406
MGVSPAAPASGIRRPCYLVLSSHDFRTPRRANIHFITDQLALRGTTRFFSLRYSRLSRMKGDMRLPLD
DTANTVVSHNGVDCYLWRTTVHPFNTRRSWLRPVEDAMFRWYAAHPPKQLLDWMRESDVIVFES
GIAVAFIELAKRVNPAAKLVYRASDGLSTINVASYIEREFDRVAPTLDVIALVSPAMAAEVVSRDNVFH
VGHGVDHNLDQLGDPSPYAEGIHAVAVGSMLFDPEFFVVASKAFPQVTFHVIGSGMGRHPGYGDNVI
VYGEMKHAQTIGYIKHARFGIAPYASEQVPVYLADSSMKLLQYDFFGLPAVCPNAVVGPYKSRFGYTP
GNADSVIAAITQALEAPRVRYRQCLNWSDTTDRVLDPRAYPETRLYPHPPTAAPQLSSEAALSH
111111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001111111111111111
>DM_train407
MTALKVGSESWWQSKHGPEWQRLNDEMFEVTFWWRDPQGSEEYSTIKRVWVYITGVTDHHQNS
QPQSMQRIAGTDVWQWTTQLNANWRGSYCFIPTERDDIFSAPSPDRLELREGWRKLLPQAIADPL

NPQSWKGGLGHAVSALEMPQAPLQPGWDCPQAPEIPAKEIIWKSERLKNSRRVWIFTTGDVTAEER
PLAVLLDGEFWAQSMPVWPVLTSLTHRQQLPPAVYVLIDAIDTTHRAHELPCNADFWLAVQQELLP
LVKVIAPFSDRADRTVVAGQSFGGLSALYAGLHWPERFGCVLSQSGSYWWPHRGGQQEGVLLEKLK
AGEVSAEGLRIVLEAGIREPMIMRANQALYAQLHPIKESIFWRQVDGGHDALCWRGGLMQGLIDLW
QPLFHDRS
11111000000000000000000000000000000000000000000000000011111110000000
00000000000000000000000000000000001100000000000000000000000000000000
00000000000000000000000000000000000000000000111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111
>DM_train408
MKTITLYLDPASLPALNQLMDFTQNNEDKTHPRIFGLSRFKIPDNIITQYQNIHFVELKDNRPTEALF
TILDQYPGNIELNIHLNIAHSVQLIRPILAYRFKHLDRVSIQQLNLYDDGSMEYVDLEKEENKDISAEIK
QAEKQLSHYLLTGKIKFDNPTIARYVWQSAFPVKYHFLSTDYFEKAEFLQPLKEYLAENYQKMDWT
AYQQLTPEQQAFYLTLVGFNDEVKQSLEVQQAKFIFTGTTTWEGNTDVREYYAQQQLNLLNHFTQA
EGDLFIGDHYKIYFKGHPRGGEINDYILNNAKNITNIPANISFEVLMMTGLLPDKVGGVASSLYFSLPK
EKISHIIFTSNKQVKSKEDALNNPYVKVMRRLGIIDESQVIFWDSLKQLGGGLEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111111
>DM_train409
TMAHHHHHHVTNSTDGRADGRLRVVVLGSTGSIGTQALQVIADNPDRFEVVGLAAGGAHLDTLLR
QRAQTGVTNIAVADEHAAQRVGDIPYHGSDAATRLVEQTEADVVLNALVGALGLRPTLAALKTGARL
ALANKESLVAGGSLVLRAARPGQIVPVDSEHSALAQCLRGGTPDEVAKLVLTASGGPFRGWSAADLE
HVTPEQAGAHPTWSMGPMNTLNSASLVNKGLEVIETHLLFGIPYDRIDVVVHPQSIIHSMVTFIDGS
TIAQASPPDMKLPISLALGWPRRVSGAAAACDFHTASSWEFEPLDTDVFPAVELARQAGVAGGCMTA
VYNAANEEAAAAFLAGRIGFPAIVGIIADVLHAADQWAVEPATVDDVLDAQRWARERAQRAVSGM
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train410
MAYDVARVRGLHPSLGDGWVHFDAPAGMLIPDSVATTVSTAFRRSGASTVGAHPSARRSAAVLDAA
REAVADLVNADPGGVVLGADRAVLLSLLAEASSSRAGLGYEVIVSRLDDEANIAPWLRAAHRYGAKV
KWAEVDIETGELPTWQWESLISKSTRLVAVNSASGTLGGVTDLRAMTKLVHDVGALVVVDHSAAAP
YRLLDIRETDADVVTVNAHAWGGPPIGAMVFRDPSVMNSFGSVSTNPYATGPARLEIGVHQFGLLAG
VVASIEYLAALDESARGSRRERLAVSMQSADAYLNRVFDYLMVSLRSLPLVMLIGRPEAQIPVVSFAV
HKVPADRVVQRLADNGILAIANTGSRVLDVLGVNDVGGAVTVGLAHYSTMAEVDQLVRALASLG

1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train411
MSKVFIATANAGKAHDADIFSVSACNSFTVSCSGDGYLKVWDNKLLDNENPKDKSYSHFVHKSGLH
HVDVLQAIERDAFELCLVATTSFSGDLLFYRITREDETKKVIFEKLDLLDSDMKKHSFWALKWGASN
DRLLSHRLVATDVKGTTYIWKFHPFADESNSLTLNWSPTLELQGTVESPMTPSQFATSVDISERGLIA
TGFNNGTVQISELSTLRPLYNFESQHSMINNSNSIRSVKFSPQGSLLAIAHDSNSFGCITLYETEFGERI
GSLSVPTHSSQASLGEFAHSSWVMSLSFNDSGETLCSAGWDGKLRFWDVKTKERITTLNMHCDDIE
IEEDILAVDEHGDSLAEPGVFDVKFLKKGWRSGMGADLNESLCCVCLDRSIRWFREAGGK
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000111100000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011100000000000000000000000000000000000000000000001111111
1000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011
>DM_train412
APARGTLLTSNFLTSYTRDAISAMLASGSQPASGSQPEQAKCNVRVAEFTYATIGVEGEPATASGVLLIP
GGERCSGPYPLLGWGHPTEALRAQEQAKEIRDAKGDDPLVTRLASQGYVVVGSDYLGLGKSNYAYHP
YLHSASEASATIDAMRAARSVLQHLKTPLSGKVMLSGYSQGGHTAMATQREIEAHLSKEFHLVASAPI
SGPYALEQTFLDSWSGSNAVGENTFGILLGSYAIVAMQHTYKNIYLEPGQVFQDPWAAKVEPLFPGK
QSLTDMFLNDTLPSIDKVKSYFQPGFYSDFPSNPANPFRQDLARNNLLEWAPQTPTLLCGSSNDATV
PLKNAQTAIASFQQRGSNQVALVDTGTGNASDNSAFAHMLTKESCIVVVRDQLLDKQR
1000000000000000000000000001111111110000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000
>DM_train413
MSLVVFPFKHEHPEVLLHNVRVAAAHPRVHEVLCIGYERDQTYEAVERAAPEISRATGTPVSVRLQE
RLGTLRPGKGDGMNTALRYFLEETQWERIHFYDADITSFGPDWITKAEEAADFGYGLVRHYFPRAS
TDAMITWMITRTGFALLWPHTELSWIEQPLGGELLMRREVAAMLYEDERVRRRSDWGIDTLYTFV
TVQQGVSIYECYIPEGKAHRLYGGLDDLRTMLVECFAAIQSLQHEVVGQPAIHRQEHPHRVPVHIAER
VGYDVEATLHRLMQHWTPRQVELLELFTTPVREGLRTCQRRPAFNFMDEMAWAATYHVLLEHFQ
PGDPDWEELLFKLWTTRVLNYTMTVALRGYDYAQQYLYRMLGRYRYQAALENGRGHPVPPRAALS
TA
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000111111111111111
>DM_train414
MGVTKTPLYETLNESSAVALAVKLGLFPSKSTLTCQEIGDGNLNYVFHIYDQEHDRALIIKQAVPYAKV
VGESWPLTIDRARIESSALIRQGEHVPHLVPRVFYSDTEMAVTVMEDLSHLKIARKGLIEGENYPHLS
QHIGEFLGKTLFYSSDYALEPKVKKQLVKQFTNPELCDITERLVFTDPFFDHDTNDFEEELRPFVEKL
WNNDSVKIEAAKLKKSFLTSAETLIHGDLHTGSIFASEHETKVIDPEFAFYGPIGFDVGQFIANLFLNA
LSRDGADREPLYEHVNQVWETFEETFSEAWQKDSLDVYANIDGYLTDTLSHIFEEAIGFAGCELIRRT
IGLAHVADLDTIVPFDKRIGRKRLALETGTAFIEKRSEFKTITDVIELFKLLVKE
1111110000000000000000000011111100000000000000000111110000000000111111
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001
>DM_train416
MSPLRKTVPEFLAHLKSLPISKIASNDVLTICVGNESADMDSIASAITYSYCQYIYNEGTYSEEKKKGSF
IVPIIDIPREDLSLRRDVMYVLEKLKIKEEELFFIEDLKSLKQNVSQGTELNSYLVDNNDTPKNLKNYI
DNVVGIIDHHFDLQKHLDAEPRIVKVSGSCSSLVFNYWYEKLQGDREVVMNIAPLLMGAILIDTSNM
RRKVEESDKLAIERCQAVLSGAVNEVSAQGLEDSSEFYKEIKSRKNDIKGFSVSDILKKDYKQFNFQG
KGHKGLEIGLSSIVKRMSWLFNEHGGEADFVNQCRRFQAERGLDVLVLLTSWRKAGDSHRELVILGD
SNVVRELIERVSDKLQLQLFGGNLDGGVAMFKQLNVEATRKQVVPYLEEAYSNLEE
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011111000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000
>DM_train417
GMETYDVLVVGGGPGGSTAARYAAKYGLKTLMIEKRPEIGSPVRCGEGLSKGILNEADIKADRSFIAN
EVKGARIYGPSEKRPIILQSEKAGNEVGYVLERDKFDKHLAALAAKAGADVWVKSPALGVIKENGKV
AGAKIRHNNEIVDVRAKMVIAADGFESEFGRWAGLKSVILARNDIISALQYRMINVDVDPDYTDFYL
GSIAPAGYIWVFPKGEGMANVGIGSSINWIHNRFELKNYLDRFIENHPGLKKGQDIQLVTGGVSVSKV
KMPITMPGLMLVGDAARLIDPITGGGIANAIVSGMYAAQVTKEAIESNDYSPQMMQKYEKLIKERFE
RKHLRNWVAKEKLAMLSDDTLDKLVDIVSEQVLTTISVEAILKAIAEKYPEVVKELEDLI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111110000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111
>DM_train418
TTLLNPYFGEFGGMYVPQILMPALNQLEEAFVRAQKDPEFQAQFADLLKNYAGRPTALTKCQNITAG
TRTTLYLKREDLLHGGAHKTNQVLGQALLAKRMGKSEIIAETGAGQHGVASALASALLGLKCRIYMG

AKDVERQSPNVFRMRLMGAEVIPVHSGSATLKDACNEALRDWSGSYETAHYMLGTAAGPHPYPTIV
REFQRMIGEETKAQILDKEGRLPDAVIACVGGGSNAIGMFADFINDTSVGLIGVEPGGHGIETGEHGA
PLKHGRVGIYFGMKAPMMQTADGQIEESYSISAGLDFPSVGPQHAYLNSIGRADYVSITDDEALEAFK
TLCRHEGIIPALESSHALAHALKMMREQPEKEQLLVVNLSGRGDKDIFTVHDILKARGEI
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011110
00000000000000111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111111
>DM_train419
PQDLMVTCTAPVNIAVIKYWGKRDEALILPINSSLSVTLHQDQLKTTTTVAISKDFTEDRIWLNGRE
EDVGQPRLQACLREIRRLARKRRSTEDGDTLPLSLSYKVHVASVNNFPTAAGLASSAAGYACLAYTLA
QVYGVEGDLSEVARRGSGSACRSLYGGFVEWQMGEQADGKDSIARQIAPEWHWPQLRILILVVSADK
KQTGSTVGMQTSVETSTLLKFRAESVVPERMKEMTRCIQEQDFQGFAQLTMKDSNQFHATCLDTFP
PISYLNDTSRRIIQLVHRFNTHHGQTKVAYTFDAGPNAVIFTLEDTVAEFVAAVRHSFPPAANGDKFL
KGLQVAPVLLSDELKAALVVEPSPGGVQYIIATQVGPGPQVLDDTHDHLLGQDGLPQRDL
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111100000000000000011111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001100000000000000000000000000000
11000000000000000000000000000000000000111
>DM_train420
MFENITAAPADPILGLADLFRADERPGKINLGIGVYKDETGKTPVLTSVKKAEQYLLENETTKNYLGI
DGIPEFGRCTQELLFGKGSALINDKRARTAQTPGGTGALRVAADFLAKNTSVKRVWVSNPSWPNHK
SVFNSAGLEVREYAYYDAENHTLDFDALINSLNEAQAGDVVLFHGCCHNPTGIDPTLEQWQTLAQLS
VEKGWLPLFDFAYQGFARGLEEDAEGLRAFAAMHKELIVASSYSKNFGLYNERVGACTLVAADSETV
DRAFSQMKAAIRANYSNPPAHGASVVATILSNDALRAIWEQELTDMRQRIQRMRQLFVNTLQEKGA
NRDFSFIIKQNGMFSFSGLTKEQVLRLREEFGVYAVASGRVNVAGMTPDNMAPLCEAIVAVL
00000000001111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train421
MSQPQSSQVTKRGLTDPERAAIIAAAVPDHALDTQRKYHYFIQPRWKPLSEYEQLSCYAQPNPDWIA
GGLDWGDWTQKFHGGRPSWGNESTELRTTDWYRHRDPARRWHHPYVKDKSEEARYTQRFLAAY
SSEGSIRTIDPYWRDEILNKYFGALLYSEYGLFNAHSSVGRDCLSDTIRQTAVFAALDKVDNAQMIQM
ERLFIAKLVPGFDASTDVPKKIWTTDPIYSGARATVQEIWQGVQDWNEILWAGHAVYDATFGQFAR
REFFQRLATVYGDTLTPFFTAQSQTYFQTTRGAIDDLFVYCLANDSEFGAHNRTFLNAWTEHYLASS
VAALKDFVGLYAKVEKVAGATDSAGVSEALQRVFGDWKIDYADKIGFRVDVDQKVDAVLAGYKN
11111111110000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>DM_train422
MFAKFPSSASISPNPFTVSIPDEQLDDLKTLVRLSKIAPPTYESLQADGRFGITSEWLTTMREKWLSE
FDWRPFEARLNSFPQFTTEIEGLTIHFAALFSEREDAVPIALLHGWPGSFVEFYPILQLFREEYTPETL
PFHLVVPSLPGYTFSSGPPLDKDFGLMDNARVVDQLMKDLGFGSGYIIQGGDIGSFVGRLLGVGFDAC
KAVHLNFCNMSAPPEGPSIESLSAAEKEGIARMEKFMTDGYAYAMEHSTRPSTIGHVLSSSPIALLAW
IGEKYLQWVDKPLPSETILEMVSLYWLTESFPRAIHTYREWVPTASAPNGATPYQKELYIHKPFGFSF
FPKDLVPVPRSWIATTGNLVFFRDHAEGGHFAALERPRELKTDLTAFVEQVWQK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111000000000000000000000000000000000
00000000000000000000000000000000000000011
>DM_train424
AQVQQLTPAQQAALRNQQAMAANLQARQIVLQQSYPVIQQVETQTFDPANRSVFDVTPANVGIVKG
FLVKVTAAITNNHATEAVALTDFGPANLVQRVIYYDPDNQRHTETSGWHLHFVNTAKQGAPFLSSM
VTDSPIKYGDVMNVIDAPATIAAGATGELTMYYWVPLAYSETDLTGAVLANVPQSKQRLKLEFANNN
TAFAAVGANPLEAIYQGAGAADCEFEEISYTVYQSYLDQLPVGQNGYILPLIDLSTLYNLENSAQAGLT
PNVDFVVQYANLYRYLSTIAVFDNGGSFNAGTDINYLSQRTANFSDTRKLDPKTWAAQTRRRIATDF
PKGVYYCDNRDKPIYTLQYGNVGFVVNPKTVNQNARLLMGYEYFTSRTELVNAGTISTT
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000111111111111
>DM_train425
APLASVPTPAFPFPVPTMVHGPCVAESEPALLTGSKQFGLSRNSHIAIAFDDTKVKNRLTIELEVRTEA
ESGLLFYMARINHADFATVQLRNGFPYFSYDLGSGDTSTMIPTKINDGQWHKIKIVRVKQEGILYVDD
ASSQTISPKKADILDVVGILYVGGLPINYTTRRIGPVTYSLDGCVRNLHMEQAPVDLDQPTSSFHVGT
CFANAESGTYFDGTGFAKAVGGFKVGLDLLVEFEFRTTRPTGVLLGVSSQKMDGMGIEMIDEKLMFH
VDNGAGRFTAIYDAEIPGHMCNGQWHKVTAKKIKNRLELVVDGNQVDAQSPNSASTSADTNDPVFV
GGFPGGLNQFGLTTNIRFRGCIRSLKLTKGTGKPLEVNFAKALELRGVQPVSCPTT
11111111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000

>DM_train426
MKTQVAIIGAGPSGLLLGQLLHKAGIDNVILERQTPDYVLGKIRAGVLEQGMVDLLREAGVDRRMAR
DGLVHEGVEIAFAGQRRRIDLKRLSGGKTVTVYGQTEVTRDLMEAREASGATTVYQAAEVRLHDLQ
GERPYVTFERDGERLRLDCDYIAGCDGFHGISRQSIPAERLKVFERVYPFGWLGLLADTPPVSHELIY
ANHPRGFALCSQRSATRSRYYVQVPLTEKVEDWSDERFWTELKARLPAEVAEKLVTGPSLEKSIAPL
RSFVVEPMQHGRLFLAGDAAHIVPPTGAKGLNLAASDVSTLYRLLLKAYREGRGELLERYSAICLRRI
WKAERFSWWMTSVLHRFPDTDAFSQRIQQTELEYYLGSEAGLATIAENYVGLPYEEIE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000111
>DM_train428
GMSSSDRYMQRGVSSQKEDVHKAIKSIDKGIYPRAFCKIIPDILGGDPEYCNIMHADGAGTKSSLAYVY
WKETGDISVWKGIAQDAVIMNIDDLICVGAVDNILLSSTIGRNKNLIPGEVLAAIINGTEEVLQMLRD
NGIGIYSTGGETADVGDLVRTIIVDSTVTCRMKRQDVISNENIKAGNVIVGFASYGQTSYETEYNGGMG
SNGLTSARHDVFNNVLASKYPESFDPKVPENLVYSGEMNLTDPYLNVPLDAGKLVLSPTRTYAPLMK
EIIHQYKGKLDGVVHCSGGGQTKVLHFTDATTHIIKDNLFDVPPLFQLIQGQSNTPWEEMYKVFNM
GHRLEIYTDAAHAEGMIAIAKKFNIEAKIIGRVEAPVAGKRLTITGPQGTEYTYA
111111111111111111111111100000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train429
MRCIGISNRDFVEGVSGGSWVDIVLEHGSCVTTMAKNKPTLDFELIKTEAKQPATLRKYCIEAKLTNT
TTESRCPTQGEPTLNEEQDKRFVCKHSMVDRGWGNGCGLFGKGGIVTCAMFTCKKNMEGKIVQPE
NLEYTVVITPHSGEEHAVGNDTGKHGKEVKITPQSSITEAELTGYGTVTMECSPRTGLDFNEMVLLQ
MKDKAWLVHRQWFLDLPLPWLPGADTQGSNWIQKETLVTFKNPHAKKQDVVVLGSQEGAMHTA
LTGATEIQMSSGNLLFTGHLKCRLRMDKLQLKGMSYSMCTGKFKVVKEIAETQHGTIVIRVQYEGDG
SPCKIPFEIMDLEKRHVLGRLITVNPIVTEKDSPVNIEAEPPFGDSYIIIGVEPGQLKLNWFKK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
001111111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train430
MKLEIFSWWAGDEGPALEALIRLYKQKYPGVEVINATVTGGAGVNARAVLKTRMLGGDPPDTFQVH
AGMELIGTWVVANRMEDLSALFRQEGWLQAFPKGLIDLISYKGGIWSVPVNIHRSNVMWYLPAKLK
GWGVNPPRTWDKFLATCQTLKQKGLEAPLALGENWTQQHLWESVALAVLGPDDWNNLWNGKLK
FTDPKAVRAWEVFGRVLDCANKDAAGLSWQQAVDRVVQGKAAFNIMGDWAAGYMTTTLKLKPGT

DFAWAPSPGTQGVFMMLSDSFGLPKGAKNRQNAINWLRLVGSKEGQDTSNPLKGSIAARLDSDPSK
YNAYGQSAMRDWRSNRIVGSLVHGAVAPESFMSQFGTVMEIFLQTRNPQAAANAAQAIADQVGLGR
LGQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000111
>DM_train431
MGSSSSGRENLYFQGMASIVFSTIGNPKGYQKVTYEIDGEKFESNVSVLALRDLLKVDKTVVILGISVA
DVYNCKYADYRSCKECIIQNSKNDLGISESYVVAPNVYQKFKGKPDHYFTYIYYHSLRILEKEGINEVFI
DTTHGINYMGVLAKEAIQLAVSAYAAKSEKEVKVSLYNSDPVGKDVSDTVKLHEIEAIKISPLSGLKYV
TYQILNKDKNFFNKIFSDSVNAIPRFATALDNGLFIYLSEKDSSLHLKRLEDDLSKDPLLTPSENEINV
VYKDMKYALSHALFYVISRFSGNVDLDTLRHYAETYADKVTRAIIENEVDKIEKYQMGSERKLLGEY
MKVEGKGFDKRILYAHGGLPYAGTYVYKEKDKVYVTYGDKIDEIERQIGS
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111110
000000000000000000000000000000000011
>DM_train432
IESLCMNCYRNGTTRLLLTKIPFFREIIVSSFSCEHCGWNNTEIQSAGRIQDQGVRYTLTVRSQEDMN
REVVKTDSATTRIPELDFEIPAFSQKGALTTVEGLISRAISGLEQDQPTRRAVEGAIAERIDEFIGKLKD
LKQMASPFTLVIDDPSGNSFVENPHAPQKDNALVITYYDRTPQQAEMLGLQAEAPEEKAEEEDLRN
EVLQFNTNCPECNAPAQTNMKLVQIPHFKEVIIMATNCENCGHRTNEVKSGGAVEPLGTRITLHITD
PSDMTRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGLLKDIRELVTKNPFTLGDSSNPDQSEKLQ
EFSQKLGQIIEGKMKAHFIMNDPAGNSYLQNVYAPEDDPEMKVERYKRTFDQNEE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001111111111000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train433
MASMQKLINSVQNYAWGSKTALTELYGIANPQQQPMAELWMGAHPKSSSRITTANGETVSLRDAIE
KNKTAMLGEAVANRFGELPFLFKVLCAAQPLSIQVHPNKRNSEIGFAKENAAGIPMDAAERNYKDP
NHKPELVFALTPFLAMNAFREFSDIVSLLQPVAGAHSAIAHFLQVPNAERLSQLFASLLNMQGEEKSR
ALAVLKAALNSQQGEPWQTIRVISEYYPDDSGLFSPLLLNVVKLNPGEAMFLFAETPHAYLQGVALE
VMANSDNVLRAGLTPKYIDIPELVANVKFEPKPAGELLTAPVKSGAELDFPIPVDDFAFSLHDLALQE
TSIGQHSAAILFCVEGEAVLRKDEQRLVLKPGESAFIGADESPVNASGTGRLARVYNKL
000000000000000000000000000000000000000000000000001111100000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train434
MLLEAPVYKEIFGAVTIHEVQKVIKMDTETEEVPIYTISNIPREKIYDLLGKMAVIVPMKNEKLHLVD
GVLKAIPHKCPIIIVSNSKREGPNRYKLEVDLIRHFYNLTHSKIIMIHQKDPGLAKAFKEVGYTDILDE
NGMIRSGKGEGMLVGLLLAKAIGAEYVGFVDADNYIPGAVNEYVKDYAAGFLMSESEYTMVRLHWR
HKPKVTKGTLYFKKWGRVSEITNHYLNLLVSEHTAFETTIMVTGNAGEHAMTMKLAEILPFSTGYSI
EPYEIVYILERFGKWENVEEFKDVFDQGIEIFQIETLNPHFHEDKGKEHVKEMLLLSLATIYHSKLAT
DNLRKRILKDLRDHGILGENEEPPKPLVMRPIKEIPIKEWMDIVEGNSETLLRFEL
000000000000000000000000000111111100000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000011111111111
111111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111111
111000000000000000000000000000000000
>DM_train435
MSNPTKISILGRESIIADFGLWRNYVAKDLISDCSSTTYVLVTDTNIGSIYTPSFEEAFRKRAAEITPSP
RLLIYNRPPGEVSKSRQTKADIEDWMLSQNPPCGRDTVVIALGGGVIGDLTGFVASTYMRGVRYVQV
PTTLLAMVDSSIGGKTAIDTPLGKNLIGAIWQPTKIYIDLEFLETLPVREFINGMAEVIKTAAISSEEEF
TALEENAETILKAVRREVTPGEHRFEGTEEILKARILASARHKAYVVSADEREGGLRNLLNWGHSIG
HAIEAILTPQILHGECVAIGMVKEAELARHLGILKGVAVSRIVKCLAAYGLPTSLKDARIRKLTAGKHCS
VDQLMFNMALDKKNDGPKKKIVLLSAIGTPYETRASVVANEDIRVVLAP
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111
111111111100000000000000000000000000
>DM_train436
MAEGKMMSDFLPFSRPAMGAEELAAVKTVLDSGWITTGPKNQELEAAFCRLTGNQYAVAVSSATAG
MHIALMALGIGEGDEVITPSMTWVSTLNMIVLLGANPVMVDVDRDTLMVTPEHIEAAITPQTKAIIP
VHYAGAPADLDAIYALGERYGIPVIEDAAHATGTSYKGRHIGARGTAIFSFHAIKNITCAEGGIVVTDNP
QFADKLRSLKFHGLGVDAWDRQSGGRAPQAEVLAPGYKYNLPDLNAAIALAQLQKLDALNARRAAI
AAQYHQAMADLPFQPLSLPSWEHIHAWHLFIIRVDEARCGITRDALMASLKTKGIGTGLHFRAAHT
QKYYRERFPTLTLPDTEWNSERICSLPLFPDMTESDFDRVITALHQIAGQGSHHHHHH
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000011111111111000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111111111
>DM_train437

GAKSEMAFAGKGEISPRAITMWDFSWLERRWPGAGYEDWDQVLDELSERGYNAIRIDAYPHLIAEN
PMKKWLLKEVWNQQDWGSPDMNEVQVQPNLNLFLSKCKERDIKVGLSSWYRLDVDEVCLKLDTP
EKLADCWLTILRSIEEDGLLDTILYVDLCNEWPGDSWAPFFAKTYPNVGWGNWYKEESLRWMKTS
LEKMRQVYPDMPFLYSFDHGDVKKYEEVDCSFLDLYEHHIWMAQQNGGEFYKLVGYGYNRFLPDD
YKNVVKNAERVYRERPGYWQKLLTDKIELMASVARKNRRPLVTTECWGLVDYKDWPLLKWDWVK
DLCELGTITAARTGMWVGVATSNFCGPQFAGMWRDVEWHKRLTSIIRSSPLDESLTKNNEVAAKLL
KRL
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train438
RIGIPRERLTNETRVAATPKTVEQLLKLGFTVAVESGAGQLASFDDKAFVQAGAEIVEGNSVWQSEIIL
KVNAPLDDEIALLNPGTTLVSFIWPAQNPELMQKLAERNVTVMAMDSVPRISRAQSLDALSSMANI
AGYRAIVEAAHEFGRFFTGQITAAGKVPPAKVMVIGAGVAGLAAIGAANSLGAIVRAFDTRPEVKEQV
QSMGAEFLELDFKEEAGSGDGYAKVMSDAFIKAEMELFAAQAKEVDIIVTTALIPGKPAPKLITREMV
DSMKAGSVIVDLAAQNGGNCEYTVPGEIFTTENGVKVIGYTDLPGRLPTQSSQLYGTNLVNLLKLLCK
EKDGNITVDFDDVVIRGVTVIRAGEITWPAPPIQVSAQPQAAQKAAPEVKTEEK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111
>DM_train439
ASASTPHALLLISIDGLRADMLDRGITPNLSHLAREGVRARWMAPSYPSLTFPNHYTLVTGLRPDHH
GIVHNSMRDPTLGGFWLSKSEAVGDARWWGGEPVWVGVENTGQHAATWSWPGSEAAIKGVRPSQ
WRHYQKGVRLDTRVDAVRGWLATDGAQRNRLVTLYFEHVDEAGHDHGPESRQYADAVRAVDAAIG
RLLAGMQRDGTRARTNIIVVSDHGMAEVAPGHAISVEDIAPPQIATAITDGQVIGFEPLPGQQAAAEA
SVLGAHDHYDCWRKAELPARWQYGSHPRIPSLVCQMHEGWDALFPDKLAKRAQRGTRGSHGYDP
ALPSMRAVFLAQGPDLAQGKTLPGFDNVDVYALMSRLLGIPAAPNDGNPATLLPALRMPPAPDAR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111
>DM_train441
MTAASLDPTAFSLDAASLAARLDAVFDQALRERRLVGAVAIVARHGEILYRRAQGLADREAGRPMRE
DTLFRLASVTKPIVALAVLRLVARGELALDAPVTRWLPEFRPRLADGSEPLVTIHHLLTHTSGLGYWL
LEGAGSVYDRLGISDGIDLRDFDLDENLRRLASAPLSFAPGSGWQYSLALDVLGAVVERATGQPLAAA
VDALVAQPLGMRDCGFVSAEPERFAVPYHDGQPEPVRMRDGIEVPLPEGHGAAVRFAPSRVFEPGAY

PSGGAGMYGSADDVLRALEAIRANPGFLPETLADAARRDQAGVGAETRGPGWGFGYLSAVLDDPAA
AGTPQHAGTLQWGGVYGHSWFVDRALGLSVLLLTNTAYEGMSGPLTIALRDAVYAR
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train442
MATALYTANDFILISLPQNAQPVTAPGSKTDSWFNETLIGGRAFVSDFKIPEFKIGSLDTLIVESEELSK
VDNQIGASIGKIIEILQGLNETSTNAYRTLPINNMPVPEYLENFQWQTRKFKLDKSIKDLITLISNESS
QLDADVRATYANYNSAKTNLAAAERKKTGDLSVRSLHDIVKPEDFVLNSEHLTTVLVAVPKSLKSDF
EKSYETLSKNVVPASASVIAEDAEYVLFNVHLFKKNVQEFTTAAREKKFIPREFNYSEELIDQLKKEH
DSAASLEQSLRVQLVRLAKTAYVDVFINWFHIKALRVYVESVLRYGLPPHFNIKIIAVPPKNLSKCKSE
LIDAFGFLGGNAFMKDKKGKINKQDTSLHQYASLVDTEYEPFVMYIINL
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00111111111111111111111111100000000000
>DM_train443
GAMGSMKPYLFDLKLKDTEKLDWKKGLSSYLKKSYGSSQWRTFYDEKATSELDHLRNNANGELAP
SSLSEQNLKYYSFLEHLYFRLGSKGSRLKMDFTWYDAEYSSAQKGLKYTQHTLAFEKSCTLFNIAVIF
TQIARENINEDYKNSIANLTKAFSCFEYLSENFLNSPSVDLQSENTRFLANICHAEAQELFVLKLLND
QISSKQYTLISKLSRATCNLFQKCHDFMKEIDDDVAIYGEPKWKTTVTCKLHFYKSLSAYYHGLHLEE
ENRVGEAIAFLDFSMQQLISSLPFKTWLVEFIDFDGFKETLEKKQKELIKDNDFIYHESVPAVVQVDSI
KALDAIKSPTWEKILEPYMQDVANKYDSLYRGIIPLDVYEKESIYSEEKATLLR
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111111111111
>DM_train444
MNARSTGQHPARYPGAAAGEPTLDSWQEPPHNRWAFAHLGEMVPSAAVSRRPVNAPGHALARLG
AIAAQLPDLEQRLEQTYTDAFLVLRGTEVVAEYYRAGFAPDDRHLLMAVSKSLCGTVVGALVDEGRI
DPAQPVTEYVPELAGSVYDGPSVLQVLDMQISIDYNEDYVDPASEVQTHDRSAGWRTRRHGDPADT
YEFLTTLRGDGSTGEFQYCSANTDVLAWIVERVTGLRYVEALSTYLWAKLDADRDATITVDTTGFGF
ANGGVSCTARDLARVGRMMLDGGVAPGGRVVSEDWVRRVLAGGSHEAMTDKGFTNTFPDGSYTR
QWWCTGNERGNVSGIGIHGQNLWLDPLTDSVIVKLSSWPDPDTEHWHRLQNGILLDVSRALDAV
11110000000000000000000000000000000000000000000000011110000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train445
TSTATDSPLKYYDIGLNLTDPMFHGIYNGKQYHPADYVKLLERAAQRHVKNALVTGSSIAESQSAIEL
VSSVKDLSPLKLYHTIGVHPCCVNEFADASQGDKASASIDNPSMDEAYNESLYAKVISNPSFAQGKLKE
LYDLMNQQAKPHDTSFRSIGEIGLDYDRFHYSSKEMQKVFFEEQLKISCLNDKLSSYPLFLHMRSAC
DDFVQILERFVVGFTDEKDTFQLQKLGASSSSGFYKFHPDRKLVVHSFTGSAIDLQKLLNLSPNIFIGV
NGCSLRTEENLAVVKQIPTERLLLETDAPWCEIKRTHASFQYLAKYQEVRDFEYPAFKSVKKNKLAD
KLNAEELYMVKGRNEPCNMEQVAIVVSEVKDVDLATLIDTTWKTTCKIFGE
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111111111111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011
>DM_train446
TSKNQFYKPGMLVPVFSAAGLLKNGRYQFLLQQIETLSLLPTEQYAQLYEALVYRFVEFVQVLPIRLD
EPLCSLMNEGLLRGVNSLNHYIQNHPEATPLERYALFSAGLLLEVAHAVVNQKIFITDEEGNFIKQW
NPFSGPLIDDVETKHYKIMPLSSYYQRNIPSITPILVRQLLPDEGFLWLTSDMRVFSDWMQALRDDE
GEGGGRFEHVLQLFKHKNIDGLFNTLPALPVNLQDSPATAHADAFLNWLKEALATNQIKVNTSDAG
VHVIPEGVFLEKTGIFKQYIDLHVNVPVNLFTVYQQFGNLFGLTKLSGIDYRFEQLFSEYPDALKRKSK
MGFAGLIGIRRASPTREGVLIADPNLIFTRGEIPSATSYLKLSSAQKSQNIPMT
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111110000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111100000000000000111111000000
000000000000000000010000111111111111
>DM_train447
PEFFSVRHLELAGDDPYSNVNCTKILQGDPEEIQKVKLEILTVQFKKRPRWTPHDYINMTRDCASFI
RTRKYIVEPLTKEEVGFPIAYSIVVHHKIEMLDRLLRAIYMPQNFYCIHVDRKAEESFLAAVQGIASCF
DNVFVASQLESVVYASWTRVKADLNCMKDLYRMNANWKYLINLCGMDFPIKTNLEIVRKLKCSTGE
NNLETEKMPPNKEERWKKRYAVVDGKLTNTGIVKAPPPLKTPLFSGSAYFVVTREYVGYVLENENIQ
KLMEWAQDTYSPDEFLWATIQRIPEVPGSFPSSNKYDLSDMNAIARFVKWQYFEGDVSNGAPYPPC
SGVHVRSVCVFGAGDLSWMLRQHHLFANKFDMDVDPFAIQCLDEHLRRKALENLEH
11111100000111111100000000000000000011111111110000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001111
>DM_train448
YEHSTVMPNVVGFPYKAHIERPGYSPLTLQMQVVETSLEPTLNLEYITCEYKTVVPSPYVKCCGASEC

STKEKPDYQCKVYTGVYPFMWGGAYCFCDSENTQLSEAYVDRSDVCRHDHASAYKAHTASLKAKVR
VMYGNVNQTVDVYVNGDHAVTIGGTQFIFGPLSSAWTPFDNKIVVYKDEVFNQDFPPYGSGQPGRF
GDIQSRTVESNDLYANTALKLARPSPGMVHVPYTQTPSGFKYWLKEKGTALNTKAPFGCQIKTNPVR
AMNCAVGNIPVSMNLPDSAFTRIVEAPTIIDLTCTVATCTHSSDFGGVLTLTYKTNKNGDCSVHSHSN
VATLQEATAKVKTAGKVTLHFSTASASPSFVVSLCSARATCSASCEPPKDHIVPY
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000111110000000000000000000000000001111110000
0000000000000000000000001111111111
>DM_train449
MIDYTAAGFTLLQGAHLYAPEDRGICDVLVANGKIIAVASNIPSDIVPNCTVVDLSGQILCPGFIDQHVH
LIGGGGQAGPTTRTPEVALSRLTEAGVTSVVGLLGTDSISRHPESLLAKTRALNEEGISAWMLTGAYH
VPSRTITGSVEKDVAIIDRVIGVKCAISDHRSAAPDVYHLANMAAESRVGGLLGGKPGVTVFHMGDSK
KALQPIYDLLENCDVPISKLLPTHVNRNVPLFEQALEFARKGGTIDITSSIDEPVAPAEGIARAVQAGIP
LARVTLSSDGNGSQPFFDDEGNLTHIGVAGFETLLETVQVLVKDYDFSISDALRPLTSSVAGFLNLTGK
GEILPGNDADLLVMTPELRIEQVYARGKLMVKDGKACVKGTFETA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000001111111111111100000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001
>DM_train450
MKSKFKLTTAAAMLGLMVLAGGAQAQDKPREVLTGGHSVSAPQENRIYVMDSVFMHLTESRVHVY
DYTNGKFLGMVPTAFNGHVQVSNDGKKIYTMTTYHERITRGKRSDVVEVWDADKLTFEKEISLPPK
RVQGLNYDGLFRQTTDGKFIVLQNASPATSIGIVDVAKGDYVEDVTAAAGCWSVIPQPNRPRSFMTIC
GDGGLLTINLGEDGKVASQSRSKQMFSVKDDPIFIAPALDKDKAHFVSYYGNVYSADFSGDEVKVDG
PWSLLNDEDKAKNWVPGGYNLVGLHRASGRMYVFMHPDGKEGTHKFPAAEIWVMDTKTKQRVA
RIPGRDALSMTIDQQRNLMLTLDGGNVNVYDISQPEPKLLRTIEGAAEASLQVQFHPVGGV
111111111111111111111111111100000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000111
>DM_train451
MTESYDVVVVGGGPVGLATAWQVAERGHRVLVLERHTFFNENGGTSGAERHWRLQYTQEDLFRLT
LETLPLWRALESRCERRLIHEIGSLWFGDTDVVTNEGQISGTAAMMDKLSVRYEWLKATDIERRFGF
RGLPRDYEGFLQPDGGTIDVRGTLAALFTLAQAAGATLRAGETVTELVPDADGVSVTTDRGTYRAGK
VVLACGPYTNDLLEPLGARLAYSVYEMAIAAYRQATPVTEAPFWFAFQQPTPQDTNLFYGFGHNPW
APGEFVRCGPDFEVDPLDHPSAATGVADRRQMDRLSGWLRDHLPTVDPDPVRTSTCLAVLPTDPE
RQFFLGTARDLMTHGEKLVVYGAGWAFKFVPLFGRICADLAVEDSTAYDISRLAPQSAL

11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011
>DM_train452
ASPRANDAPIVLLHGFTGWGREEMLGFKYWGGVRGDIEQWLNDNGYRTYTLAVGPLSSNWDRACE
AYAQLVGGTVDYGAAHAAKHGHARFGRTYPGLLPELKRGGRVHIIAHSQGGQTARMLVSLLENGSQE
EREYAKEHNVSLSPLFEGGHRFVLSVTTIATPHDGTTLVNMVDFTDRFFDLQKAVLEAAAVASNAPY
TSEIYDFKLDQWGLRREPGESFDHYFERLKRSPVWTSTDTARYDLSVPGAETLNRWVKASPNTYYL
SFSTERTYRGALTGNYYPELGMNAFSAIVCAPFLGSYRNAALGIDSHWLGNDGIVNTISMNGPKRGS
NDRIVPYDGTLKKGVWNDMGTYNVDHLEVIGVDPNPSFNIRAFYLRLAEQLASLRP
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train453
MNLHEYQAKQLFARYGLPAPVGYACTTPREAEEAASKIGAGPWVVKCQVHAGGRGKAGGVKVVNSK
EDIRAFAENWLGKRLVTYQTDANGQPVNQILVEAATDIAKELYLGAVVDRSSRRVVFMASTEGGVEI
EKVAEETPHLIHKVALDPLTGPMPYQGRELAFKLGLEGKLVQQFTKIFMGLATIFLERDLALIEINPLV
ITKQGDLICLDGKLGADGNALFRQPDLREMRDQSQEDPREAQAAQWELNYVALDGNIGCMVNGAG
LAMGTMDIVKLHGGEPANFLDVGGGATKERVTEAFKIILSDDKVKAVLVNIFGGIVRCDLIADGIIGAV
AEVGVNVPVVVRLEGNNAELGAKKLADSGLNIIAAKGLTDAAQQVVAAVEGK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000111
>DM_train455
MEKTTEGAFYTREYRNLFKEFGYSEAEIQERVKDTWEQLFGDNPETKIYYEVGDDLGYLLDTGNLD
VRTEGMSYGMMMAVQMDRKDIFDRIWNWTMKNMYMTEGVHAGYFAWSCQPDGTKNSWGPAPD
GEEYFALALFFASHRWGDGDEQPFNYSEQARKLLHTCVHNGEGGPGHPMWNRDNKLIKFIPEVEFS
DPSYHLPHFYELFSLWANEEDRVFWKEAAEASREYLKIACHPETGLAPEYAYYDGTPNDEKGYGHFF
SDSYRVAANIGLDAEWFGGSEWSAEEINKIQAFFADKEPEDYRRYKIDGEPFEEKSLHPVGLIATNAM
GSLASVDGPYAKANVDLFWNTPVRTGNRRYYDNCLYLFAMLALSGNFKIWFPEGQEEEH
11111000000000000000000000000000000000000000110000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000001111111
>DM_train456
MAGSATVEKRLDFGLLGPLQMTIDGTPVPSGTPKQRAVLAMLVINRNRPVGVDALITALWEEWPPS
GARASIHSYVSNLRKLLGGAGIDPRVVLAAAPPGYRLSIPDNTCDLGRFVAEKTAGVHAAAAGRFEQA
SRHLSAALREWRGPVLDDLRDFQFVEPFATALVEDKVLAHTAKAEAEIACGRASAVIAELEALTFEH
PYREPLWTQLITAYYLSDRQSDALGAYRRVKTTLADDLGIDPGPTLRALNERILRQQPLDAKKSAKTT
AAGTVTVLDQRTMASGQQAVAYLHDIASGRGYPLQAAATRIGRLHDNDIVLDSANVSRHHAVIVDTG
TNYVINDLRSSNGVHVQHERIRSAVTLNDGDHIRICDHEFTFQISAGTHGGT
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111
>DM_train457
MGKNLQALAQLYKNALLNDVLPFWENHSLDSEGGYFTCLDRQGKVYDTDKFIWLQNRQVWTFSM
LCNQLEKRENWLKIARNGAKFLAQHGRDDEGNWYFALTRGGEPLVQPYNIFSDCFAAMAFSQYALA
SGEEWAKDVAMQAYNNVLRRKDNPKGKYTKTYPGTRPMKALAVPMILANLTLEMEWLLPQETLE
NVLAATVQEVMGDFLDQEQGLMYENVAPDGSHIDCFEGRLINPGHGIEAMWFIMDIARRKNDSKTI
NQAVDVVLNILNFAWDNEYGGLYYFMDAAGHPPQQLEWDQKLWWVHLESLVALAMGYRLTGRDA
CWAWYQKMHDYSWQHFADPEYGEWFGYLNRRGEVLLNLKGGKWKGCFHVPRAMYLCWQQFEA
LS
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train458
NSIQIGGLFPRGADQEYSAFRVGMVQFSTSEFRLTPHIDNLEVANSFAVTNAFCSQFSRGVYAIFGFYD
KKSVNTITSFCGTLHVSFITPSFPTDGTHPFVIQMRPDLKGALLSLIEYYQWDKFAYLYDSDRGLSTLQ
AVLDSAAEKKWQVTAINVGNINNDKKDEMYRSLFQDLELKKERRVILDCERDKVNDIVDQVITIGK
HVKGYHYIIANLGFTDGDLLKIQFGGANVSGFQIVDYDDSLVSKFIERWSTLEEKEYPGAHTTTIKYTS
ALTYDAVQVMTEAFRNLRKQRIEISRRGNAGDCLANPAVPWGQGVEIERALKQVQVEGLSGNIKFDQ
NGKRINYTINIMELKTNGPRKIGYWSEVDKMVVTLTELPSGNDTSGLE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111100000000000000000000000000000000000000000000000000
00000000000000000011111111111111
>DM_train459
QKTQSAPGTLSPDARNEKQPFYGEHQAGILTPQQAAMMLVAFDVLASDKADLERLFRLLTQRFAFLT
QGGAAPETPNPRLPPLDSGILGGYIAPDNLTITLSVGHSLFDERFGLAPQMPKKLQKMTRFPNDSLD

AALCHGDVLLQICANTQDTVIHALRDIIKHTPDLLSVRWKREGFISDHAARSKGKETPINLLGFKDGT
ANPDSQNDKLMQKVVWVTADQQEPAWTIGGSYQAVRLIQFRVEFWDRTPLKEQQTIFGRDKQTGA
PLGMQHEHDVPDYASDPEGKVIALDSHIRLANPRTAESESSLMLRRGYSYSLGVTNSGQLDMGLLFV
CYQHDLEKGFLTVQKRLNGEALEEYVKPIGGGYFFALPGVKDANDYFGSALLRV
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train460
MEQVVIVDAIRTPMGRSKGGAFRNVRAEDLSAHLMRSLLARNPSLTAATLDDIYWGCVQQTLEQGF
NIARNAALLAEIPHSVPAVTVNRLCGSSMQALHDAARMIMTGDAQVCLVGGVEHMGHVPMSHGVD
FHPGLSRNVAKAAGMMGLTAEMLSRLHGISREMQDQFAARSHARAWAATQSGAFKTEIIPTGGHDA
DGVLKQFNYDEVIRPETTVEALSTLRPAFDPVSGTVTAGTSSALSDGAAAMLVMSESRARELGLKPR
ARIRSMAVVGCDPSIMGYGPVPASKLALKKAGLSASDIDVFEMNEAFAAQILPCIKDLGLMEQIDEKI
NLNGGAIALGHPLGCSGARISTTLINLMERKDAQFGLATMCIGLGQGIATVFERV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111111
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train461
MSKTIIKNIGKIVSGDIKSPVLQADTIVVEDGLIAAIGGEELMKDAGDATIIDAAGSTVTPGLLDTHVH
VSGGDYAPRQKTMDFISSALHGGVTTMISAGSPHFPGRPKDAAGTKALAITLSKSYYNARPAGVKVH
GGAVILEKGLTEEDFIEMKKEGVWIVGEVGLGTIKNPEDAAPMVEWAHKHGFKVQMHTGGTSIPGS
STVTADDVIKTKPDVVSHINGGPTAISVQEVDRIMDETDFAMEIVQCGNPKIADYVARRAAEKGQLG
RVIFGNDAPSGTGLIPLGILRNMCQIASMSDIDPEVAVCMATGNSTAVYGLNTGVIAPGKEADLIIMDT
PLGSVAEDAMGAIAAGDIPGISVVLIDGEAVVTKSRNTPPAKRAAKIL
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train462
MKKQNDIPQPIRGDKGATVKIPRNIERDRQNPDMLVPPETDHGTVSNMKFSFSDTHNRLEKGGYAR
EVTVRELPISENLASVNMRLKPGAIRELHWHKEAEWAYMIYGSARVTIVDEKGRSFIDDVGEGDLW
YFPSGLPHSIQALEEGAEFLLVFDDGSFSENSTFQLTDWLAHTPKEVIAANFGVTKEEISNLPGKEKYI
FENQLPGSLKDDIVEGPNGEVPYPFTYRLLEQEPIESEGGKVYIADSTNFKVSKTIASALVTVEPGAM
RELHWHPNTHEWQYYISGKARMTVFASDGHARTFNYQAGDVGYVPFAMGHYVENIGDEPLVFLEIF
KDDHYADVSLNQWLAMLPETFVQAHLDLGKDFTDVLSKEKHPVVKKKCSK
11111110000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000111111
>DM_train466
MTPISQTPGLLAEAMVDLGAIEHNVRVLREHAGHAQLMAVVKADGYGHGATRVAQTALGAGAAEL
GVATVDEALALRADGITAPVLAWLHPPGIDFGPALLADVQVAVSSLRQLDELLHAVRRTGRTATVTV
KVDTGLNRNGVGPAQFPAMLTALRQAMAEDAVRLRGLMSHMVYADKPDDSINDVQAQRFTAFLAQ
AREQGVRFEVAHLSNSSATMARPDLTFDLVRPGIAVYGLSPVPALGDMGLVPAMTVKCAVALVKSIRA
GEGVSYGHTWIAPRDTNLALLPIGYADGVFRSLGGRLEVLINGRRCPGVGRICMDQFMVDLGPGPLD
VAEGDEAILFGPGIRGEPTAQDWADLVGTIHYEVVTSPRGRITRTYREAENR
111111111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000001111111111111110000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000111
>DM_train467
MKSKKILIVGAGFSGAVIGRQLAEKGHQVHIIDQRDHIGGNSYDARDSETNVMVHVYGPHIFHTDNE
TVWNYVNKHAEMMPYVNRVKATVNGQVFSLPINLHTINQFFSKTCSPDEARALIAEKGDSTIADPQ
TFEEEALRFIGKELYEAFFKGYTIKQWGMQPSELPASILKRLPVRFNYDDNYFNHKFQGMPKCGYTQ
MIKSILNHENIKVDLQREFIVEERTHYDHVFYSGPLDAFYGYQYGRLGYRTLDFKKFTYQGDYQGCAV
MNYCSVDVPYTRITEHKYFSPWEQHDGSVCYKEYSRACEENDIPYYPIRQMGEMALLEKYLSLAEN
ETNITFVGRLGTYRYLDMDVTIAEALKTAEVYLNSLTENQPMPVFTVSVR
100000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>DM_train468
MELQEVLHMNGGEGDTSYAKNSSYNLFLIRVKPVLEQCIQELLRANLPNINKCFKVGDLGCASGPNT
FSTVRDIVQSIDKVGQEKKNELERPTIQIFLNDLFQNDFNSVFKLLPSFYRNLEKENGRKIGSCLIGAM
PGSFYSRLFPEESMHFLHSCYCLHWLSQVPSGLVTELGISVNKGCIYSSKASRPPIQKAYLDQFTKDFT
TFLRIHSEELISRGRMLLTFICKEDEFDHPNSMDLLEMSINDLVIEGHLEEEKLDSFNVPIYAPSTEEV
KRIVEEEGSFEILYLETFNAPYDAGFSIDDDYQGRSHSPVSCDEHARAAHVASVVRSIYEPILASHFGE
AILPDLSHRIAKNAAKVLRSGKGFYDSVIISLAKKPEKADM
110000000001111000000000000000000000000000000000000000000000000000000000000000
000000000011111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000011111100000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000011111111100000000000000000000000000000000000000000000000000
0000000000000000000000000011111

>DM_train469
MRILFVAAGSPATVFALAPLATAARNAGHQVVMAANQDMGPVVTGVGLPAVATTDLPIRHFITTDRE
GRPEAIPSDPVAQARFTGRWFARMAASSLPRMLDFSRAWRPDLIVGGTMSYVAPLLALHLGVPHAR
QTWDAVDADGIHPGADAELRPELSELGLERLPAPDLFIDICPPSLRPANAAPARMMRHVATSRQCPL
EPWMYTRDTRQRVLVTSGSRVAKESYDRNFDFLRGLAKDLVRWDVELIVAAPDTVAEALRAEVPQA
RVGWTPLDVVAPTCDLLVHHAGGVSTLTGLSAGVPQLLIPKGSVLEAPARRVADYGAAIALLPGEDST
EAIADSCQELQAKDTYARRAQDLSREISGMPLPATVVTALEQLAHHHHHH
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000001111111100000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train470
APKRKAGVSKCETKCTKACPRPAPVPKLLIKGGMEVLDLVTGPDSVTEIEAFLNPRMGQPPTPESLTE
GGQYYGWSRGINLATSDTEDSPGNNTLPTWSMAKLQLPMLNEDLTCDTLQMWEAVSVKTEVVGSG
SLLDVHGFNKPTDTVNTKGISTPVEGSQYHVFAVGGEPLDLQGLVTDARTKYKEEGVVTIKTITKKD
MVNKDQVLNPISKAKLDKDGMYPVEIWHPDPAKNENTRYFGNYTGGTTTPPVLQFTNTLTTVLLD
ENGVGPLCKGEGLYLSCVDIMGWRVTRNYDVHHWRGLPRYFKITLRKRWVKNPYPMASLISSLFNN
MLPQVQGQPMEGENTQVEEVRVYDGTEPVPGDPDMTRYVDRFGKTKTVFPGN
111111111111111100000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
011111111111111111111111111
>DM_train471
NDVGAESKQPLLDIALKGLKRTLPQLEQMDGNSLRENFQEMASGNGPLRSLMTNLQNLNKIPEAKQ
LNDYVTTLTNIQVGVARFSQWGTCGGEVERWVDKASTHELTQAVKKIHVIAKELKNVTAELEKIEAG
APMPQTMSGPTLGLARFAVSSIPINQQTQVKLSDGMPVPVNTLTFDGKPVALAGSYPKNTPDALEAH
MKMLLEKECSCLVVLTSEDQMQAKQLPPYFRGSYTFGEVHTNSQKVSSASQGEAIDQYNMQLSCGE
KRYTIPVLHVKNWPDHQPLPSTDQLEYLADRVKNSNQNGAPGRSSSDKHLPMIHCLGGVGRTGTM
AAALVLKDNPHSNLEQVRADFRDSRNNRMLEDASQFVQLKAMQAQLLMTTAS
111111111100000000000000000000001111111111100000000000001111100000000
000000000000000011111000000000000000000000000000000000000111111000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>DM_train472
AAASFGQTKIPRGNGPYSVGCTDLMFDHTNKGTFLRLYYPSQDNDRLDTLWIPNKEYFWGLSKFLG
THWLMGNILRLLFGSMTTPANWNSPLRPGEKYPLVVFSHGLGAFRTLYSAIGIDLASHGFIVAAVEH
RDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQRAKECSQALSLILDIDHGKPVK
NALDLKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWMFPLGDEVYSRIPQPL

FFINSEYFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLKGDIDSNVAIDL
SNKASLAFLQKHLGLHKDFDQWDCLIEGDDENLIPGTNINTTNQHI
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111
>DM_train473
PQPPADEQPEPRTRRRAYLWCKEFLPGAWRGLREDEFHISVIRGGLSNMLFQCSLPDTTATLGDEPR
KVLLRLYGAILQMRSCNKEGSEQAQKENEFQGAEAMVLESVMFAILAERSLGPKLYGIFPQGRLEQFI
PSRRLDTEELSLPDISAEIAEKMATFHGMKMPFNKEPKWLFGTMEKYLKEVLRIKFTEESRIKKLHK
LLSYNLPLELENLRSLLESTPSPVVFCHNDCQEGNILLLEGRENSEKQKLMLIDFEYSSYNYRGFDIGN
HFCEWMYDYSYEKYPFFRANIRKYPTKKQQLHFISSYLPAFQNDFENLSTEEKSIIKEEMLLEVNRFA
LASHFLWGLWSIVQAKISSIEFGYMDYAQARFDAYFHQKRKLGV
11111111111100000000000010011111111111111111100000111111111111111000
00111111111111111111111111111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train476
MKALHFGAGNIGRGFIGKLLADAGIQLTFADVNQVVLDALNARHSYQVHVVGETEQVDTVSGVNAVS
SIGDDVVDLIAQVDLVTTAVGPVVLERIAPAIAKGLVKRKEQGNESPLNIIACENMVRGTTQLKGHVM
NALPEDAKAWVEEHVGFVDSAVDRIVPPSASATNDPLEVTVETFSEWIVDKTQFKGALPNIPGMELT
DNLMAFVERKLFTLNTGHAITAYLGKLAGHQTIRDAILDEKIRAVVKGAMEESGAVLIKRYGFDADK
HAAYIQKILGRFENPYLKDDVERVGRQPLRKLSAGDRLIKPLLGTLEYSLPHKNLIQGIAGAMHFRSE
DDPQAQELAALIADKGPQAALAQISGLDANSEVVSEAVTAYKAMQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train477
EESRESPAEHGYYMPAEWDSHAQTWIGWPERQDNWRHNALPAQRVFAGVAKAISKFEPVTVCASP
AQWENARKQLPEDIRVVEMSMNDSWFRDSGPTFIVRKRPVKLSSLNRNIAGIDWNFNAWGGAND
GCYNDWSHDLLVSRKILALERIPRFQHSMILEGGSIHVDGEGTCLVTEECLLNKNRNPHMSKEQIEE
ELKKYLGVQSFIWLPRGLYGDEDTNGHIDNMCCFARPGVVLLSWTDDETDPQYERSVEALSVLSNSI
DARGRKIQVIKLYIPEPLYMTEEESSGITQDGEAIPRLAGTRLAASYVNFYIANGGIIAPQFGDPIRDKE
AIRVLSDTFPHHSVVGIENAREIVLAGGNIHCITQQQPAEPTSVAENGH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111
>DM_train478
MKSFQLVATAASGLEAIVGKEVARLGYDPKVENGKVYFEGDLSAIARANLWLRVADRVKIVVGVFKA
TTFDELFEKTKALPWEDYLPLDAQFPVAGKSVKSTLYSVPDCQAIVKKAIVNRVSEKYRRSGRLMET
GALFKLEVSILKDEVTLTIDTSGAGLHKRGYRLAQGSAPIKETMAAALVLLTSWHPDRPFYDPVCGSG
TIPIEAALIGQNIAPGFNREFVSETWDWMPKQVWADARQEAEDLANYDQPLNIIGGDIDARLIEIAK
QNAVEAGLGDLITFRQLQVADFQTEDEYGVVVANPPYGERLEDEEAVRQLYREMGIVYKRMPTWSV
YVLTSYELFEEVYGKKATKKRKLYNGYLRTDLYQYWGPRKPRPKKED
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000011110000000000111111111
>DM_train480
MQRLDALLPTLRERAQETEDLRRIPDDSMKALQETGFFRLLQPEQWGGYQADPVLFYSAVRKIASA
CGSTGWVSSIIGVHNWHLALFSQQAQEDVWGNDTDVRISSSYAPMGAGQVVDGGYTVNGAWAWSS
GCDHASWAVLGGPVIKDGRPVDFVSFLIPREDYRIDDVWNVVGLRGTGSNTVVVEDVFVPTHRVLSF
KAMSNLTAPGLERNTAPVYKMPWGTIHPTTISAPIVGMAYGAYDAHVEHQGKRVRAAFAGEKAKDD
PFAKVRIAEASSDIDAAWRQLSGNVADEYALLVAGEEVPFELRLRARRDQVRATGRAISSIDKLFESSG
ATALANGTPLQRFWRDAHAGRVHAANDPERAYVMYGTGEFGLPITDTMV
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000
>DM_train482
MDINGGGATLPQALYQTSGVLTAGFAQYIGVGSGNGKAAFLNNDYTKFQAGVTNKNVHWAGSDSKL
SATELSTYASAKQPTWGKLIQVPSVGTSVAIPFNKSGSAAVNLSVQELCGVFSGRINTWDGISGSGRTG
PIVVVYRSESSGTTELFTRFLNAKCNAETGNFAVTTTFGTSFSGGLPAGAVAATGSQGVMTALAAGDG
RITYMSPDFAAPTLAGLDDATKVARVGKNVATNTQGVSPAAANVSAAIGAVPVPAAADRSNPDAWV
PVFGPDNTAGVQPYPTSGYPILGFTNLIFSQCYADATQTTQVRDFFTKHYGASNNNDAAITANAFVPL
PTAWKATVRASFLTASNALSIGNTNVCNGIGRPLLEAAHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111111
>DM_train483
HHHHHHTDPALRAAQQTPLYEQHTLCGARMVDFHGWMMPLHYGSQIDEHHAVRTDAGMFDVSH

MTIVDLRGSRTREFLRYLLANDVAKLTKSGKALYSGMLNASGGVIDDLIVYYFTEDFFRLVVNSATRE
KDLSWITQHAEPFGIEITVRDDLSMIAVQGPNAQAKAATLFNDAQRQAVEGMKPFFGVQAGDLFIAT
TGYTGEAGYEIALPNEKAADFWRALVEAGVKPCGLGARDTLRLEAGMNLYGQEMDETISPLAANMG
WTIAWEPADRDFIGREALEVQREHGTEKLVGLVMTEKGVLRNELPVRFTDAQGNQHEGIITSGTFSP
TLGYSIALARVPEGIGETAIVQIRNREMPVKVTKPVFVRNGKAVAGLCGR
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011
>DM_train484
MSTAVQFRGGTTAQHATFTGAAREITVDTDKNTVVVHDGATAGGFPLARHDLVKTAFIKADKSAVAF
TRTGNATASIKAGTIVEVNGKLVQFTADTAITMPALTAGTDYAIYVCDDGTVRADSNFSAPTGYTSTTA
RKVGGFHYAPGSNAAAQAGGNTTAQINEYSLWDIKFRPAALDPRGMTLVAGAFWADIYLLGVNHLT
DGTSKYNVTIADGSASPKKSTKFGGDGSAAYSDGAWYNFAEVMTHHGKRLPNYNEFQALAFGTTEA
TSSGGTDVPTTGVNGTGATSAWNIFTSKWGVVQASGCLWTWGNEFGGVNGASEYTANTGGRGSVY
AQPAAALFGGAWNGTSLSGSRAALWYSGPSFSFAFFGARGVCDHLILE
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train488
MIQFSINRTLFIHALNTTKRAISTKNAIPILSSIKIEVTSTGVTLTGSNGQISIENTIPVSNENAGLLITSP
GAILLEASFFINIISSLPDISINVKEIEQHQVVLTSGKSEITLKGKDVDQYPRLQEVSTENPLILKTKLLK
SIIAETAFAASLQESRPILTGVHIVLSNHKDFKAVATDSHRMSQRLITLDNTSADFMVVLPSKSLREFS
AVFTDDIETVEVFFSPSQILFRSEHISFYTRLLEGNYPDTDRLLMTEFETEVVFNTQSLRHAMERAFL
ISNATQNGTVKLEITQNHISAHVNSPEVGKVNEDLDIVSQSGSDLTISFNPTYLIESLKAIKSETVKIHF
LSPVRPFTLTPGDEEESFIQLITPVRTN
10000000000000000000000000000000000000000000000000000000000011111000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train489
MELIEVQEGKAKILIPKAESIYDSPVFYNPRMALNRDIVVVLLNILNPKIVLDALSATGIRGIRFALETP
AEEVWLNDISEDAYELMKRNVMLNFDGELRESKGRAILKGEKTIVINHDDANRLMAERHRYFHFID
LDPFGSPMEFLDTALRSAKRRGILGVTATDGAPLCGAHPRACLRKYLAVPLRGELCHEVGTRILVGVI
ARYAAKYDLGIDVILAYYKDHYFRAFVKLKDGARKGDETLEKLGYIYFDDKTGKFELEQGFLPTRPN
AYGPVWLGPLKDEKIVSKMVKEAESLSLARKKQALKLLKMIDQELDIPLFYDTHAIGRRLKIETKKV
EEIISALREQGYEATRTHFSPTGIKTSAPYEVFIETIKRI

11000000000000001111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train490
MTKKRVALIFGGNSSEHDVSKRSAQNFYNAIEATGKYEIIVFAIAQNGFFLDTESSKKILALEDEQPIV
DAFMKTVDASDPLARIHALKSAGDFDIFFPVVHGNLGEDGTLQGLFKLLDKPYVGAPLRGHAVSFDK
ALTKELLTVNGIRNTKYIVVDPESANNWSWDKIVAELGNIVFVKAANQGSSVGISRVTNAEEYTEALS
DSFQYDYKVLIEEAVNGARELEVGVIGNDQPLVSEIGAHTVPNQGSGDGWYDYNNKFVDNSAVHFQI
PAQLSPEVTKEVKQMALDAYKVLNLRGEARMDFLLDENNVPYLGEPNTLPGFTNMSLFKRLWDYS
DINNAKLVDMLIDYGFEDFAQNKKLSYSFVSLGEEKIGKFN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111
>DM_train491
GLKEHDFNPEEAEETKQVSWKLVTEYAMETKCDDVLLLLGMYLEFQYSFEMCLKCIKKEQPSHYKY
HEKHYANAAIFADSKNQKTICQQAVDTVLAKKRVDSLQLTREQMLTNRFNDLLDRMDIMFGSTGSA
DIEEWMAGVAWLHCLLPKMDSVVYDFLKCMVYNIPKKRYWLFKGPIDSGKTTLAAALLELCGGKA
LNVNLPLDRLNFELGVAIDQFLVVFEDVKGTGGESRDLPSGQGINNLDNLRDYLDGSVKVNLEKKHL
NKRTQIFPPGIVTMNEYSVPKTLQARFVKQIDFRPKDYLKHCLERSEFLLEKRIIQSGIALLLMLIWYR
PVAEFAQSIQSRIVEWKERLDKEFSLSVYQKMKFNVAMGIGVLD
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train492
GMKSAPDWIAHPDTPYLLIDEAKLKSNINYLKQRVESLGSHLRPHLKTLRTLEAAGYLLDSKSAPAT
VSTLAEAEAYAKAGYTDLLYAVGIAPAKLKRVAALRQQGINLHILLDNITQAQAVVDYAAEFGQDFSVF
IEIDSDDHRGGIKPSDSKLLTIAKTLGEHFTGLMTHAGGSYACNTEQGLKNFAKQECDAVRIARNNLE
TAGIHCAITSVGSTPTAHFGEDFSDISEVRAGVYTTFDLVMKNIGVCDFSHIAMSVVTTVIGHNKEKN
WLLTDSGWMALSRDSGTAGQNRDFGYGQVCKIDGSVLDGLCVNSTSQEHGVIELSDAYQLEDFPVG
HQLRIMPNHACATAAMHPVYHVLMSDGSHNTWQRITGW
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000
>DM_train493
MREWKIIDSTLREGEQFEKANFSTQDKVEIAKALDEFGIEYIEVTTPVASPQSRKDAEVLASLGLKAK
VVTHIQCRLDAAKVAVETGVQGIDLLFGTSKYLRAPHGRDIPRIIEEAKEVIAYIREAAPHVEVRFSAE
DTFRSEEQDLLAVYEAVAPYVDRVGLADTVGVATPRQVYALVREVRRVVGPRVDIEFHGHNDTGCAI
ANAYEAIEAGATHVDTTILGIGERNGITPLGGFLARMYTLQPEYVRRKYKLEMLPELDRMVARMVG
VEIPFNNYITGETAFSHKAGMHLKAIYINPEAYEPYPPEVFGVKRKLIIASRLTGRHAIKARAEELGLH
YGEEELHRVTQHIKALADRGQLTLEELDRILREWITA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111110000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111111111000000000000000000
00000000000000000000
>DM_train494
MTSQTPTRKPRARDLGLPFTGVTGPYNAITDVDGVGVGFQTIIENEPRPGRKRPARSGVTAILPHMQ
SETPVPVYAGVHRFNGNGEMTGTHWIEDGGYFLGPVVITNTHGIGMAHHATVRWMVDRYASTYQT
DDFLWIMPVVAETYDGALNDINGFPVTEADVRKALDNVASGPVQEGNCGGGTGMITYGFKGGTGTA
SRVVEFGGRSFTIGALVQANHGQRDWLTIAGVPVGQHMRDGTPQSQLQERGSIIVVLATDLPLMPHQ
LKRLARRASIGIGRNGTPGGNNSGDIFIAFSTANQRPMQHRSAPFLDVEMVNDEPLDTVYLAAVDSV
EEAVVNAMIAAEDMGGTPFDRLLVQAIDHERLRAVLRQYGRLA
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train495
MSLTREAYHRLTPLPHPGGRLFIKPGARGYRDPVHDLLQKTVEPFGERALDLNPGVGWGSLPLEGR
MAVERLETSRAAFRCLTASGLQARLALPWEAAAGAYDLVVLALPAGRGTAYVQASLVAAARALRMGG
RLYLAGDKNKGFERYFKEARALLGYGVVVRREGPYRVALLEKEKEAPPLPSLWRAFSARILGAEYTF
HHLPGVFSAGKVDPASLLLLEALQERLGPEGVRGRQVLDLGAGYGALTLPLARMGAEVVGVEDDLAS
VLSLQKGLEANALKAQALHSDVDEALTEEARFDIIVTNPPFHVGGAVILDVAQAFVNVAAARLRPGG
VFFLVSNPFLKYEPLLEEKFGAFQTLKVAEYKVLFAEKRGR
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>DM_train497
MENFPTEYFLNTTVRLLEYIRYRDSNYTREERIENLHYAYNKAAHHFAQPRQQQLLKVDPKRLQASL
QTIVGMVVYSWAKVSKECMADLSIHYTYTLVLDDSKDDPYPTMVNYFDDLQAGREQAHPWWALV
NEHFPNVLRHFGPFCSLNLIRSTLDFFEGCWIEQYNFGGFPGSHDYPQFLRRMNGLGHCVGASLWP

KEQFNERSLFLEITSAIAQMENWMVWVNDLMSFYKEFDDERDQISLVKNYVVSDEISLHEALEKLT
QDTLHSSKQMVAVFSDKDPQVMDTIECFMHGYVTWHLCDRRYRLSEIYEKVKEEKTEDAQKFCKFY
EQAANVGAVSPSEWAYPPVAQLANVRSKDVKEVQKPFLSSIELVE
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
1111111111111111111
>DM_train498
MTWKNFGFEIFGEKYGQEELEKRIKDEHTPPPDSPVFGGLKLKLKKEKFKTLFTLGTTLKGFRRATH
TVGTGGIGEITIVNDPKFPEHEFFTAGRTFPARLRHANLKYPDDAGADARSFSIKFADSDSDGPLDIV
MNTGEANIFWNSPSLEDFVPVEEGDAAEEYVYKNPYYYYNLVEALRRAPDTFAHLYYYSQVTMPFK
AKDGKVRYCRYRALPGDVDIKEEDESGRLTEEEQRKIWIFSRHENEKRPDDYLRKEYVERLQKGPV
NYRLQIQIHEASPDDTATIFHAGILWDKETHPWFDLAKVSIKTPLSPDVLEKTAFNIANQPASLGLLE
AKSPEDYNSIGELRVAVYTWVQHLRKLKIGSLVPAGQNA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000111111
>DM_train499
MGSDKIHHHHHHMTSSPTSTQESSTSWYLLLQQLIDGESLSRSQAAELMQGWLSEAVPPELSGAILT
ALNFKGVSADELTGMAEVLQSQSKMGTGENYSQLPITNSPFSIIDTCGTGGDGSSTFNISTAVAFVAAA
YGVPVAKHGNRSASSLTGSADVLEALGVNLGASPEKVQAALQEVGITFLFAPGWHPALKAVATLRRTL
RIRTVFNLLGPLVNPLRPTGQVVGLFTPKLLTTVAQALDNLGKQKAIVLHGRERLDEAGLGDLTDLAV
LSDGELQLTTINPQEVGVTPAPIGALRGGDVQENAEILKAVLQGKGTQAQQDAVALNAALALQVAGAV
PLLDHAQGVSVAKEILQTGTAWAKLAQLVYFLGN
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000111111111110000000000001110000000000000000000000
00000001000000000000000000000000000000000001110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>DM_train500
MIVAFCLYKYFPFGGLQRDFMRIASTVAARGHHVRVYTQSWEGDCPKAFELIQVPVKSHTNHGRNA
EYYAWVQNHLKEHPADRVVGFNKMPGLDVYFAADVCYAEKVAQEKGFLYRLTSRYRHYAAFERATF
EQGKSTKLMMLTDKQIADFQKHYQTEPERFQILPPGIYPDRKYSEQIPNSREIYRQKNGIKEQQNLLL
QVGSDFGRKGVDRSIEALASLPESLRHNTLLFVVGQDKPRKFEALAEKLGVRSNVHFFSGRNDVSEL
MAAADLLLHPAYQEAAGIVLLEAITAGLPVLTTAVCGYAHYIADANCGTVIAEPFSQEQLNEVLRKALT
QSPLRMAWAENARHYADTQDLYSLPEKAADIITGGLDG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111
>DM_train501
GHEIKDIREDTMHAEFNALRAQVAINDGNPDEAERLAKLALEELPPGWFYSRIVATSVLGEVLHCKG
ELTRSLALMQQTEQMARQHDVWHYALWSLIQQSEILFAQGFLQTAWETQEKAFQLINEQHLEQLP
MHEFLVRIRAQLLWAWARLDEAEASARSGIEVLSSYQPQQQLQCLAMLIQCSLARGDLDNARSQLNR
LENLLGNGKYHSDWISNANKVRVIYWQMTGDKAAAANWLRHTAKPEFANNHFLQGQWRNIARA
QILLGEFEPAEIVLEELNENARSLRLMSDLNRNLLLLNQLYWQAGRKSDAQRVLLDALKLANRTGFIS
HFVIEGEAMAQQLRQLIQLNTLPELEQHRAQRILREINQHHGA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000011111
>DM_train502
MGSMDQSIAVKSPLTYAEALANTIMNTYTVEELPPANRWHYHQGVFLCGVLRLWEATGEKRYFEYA
KAYADLLIDDNGNLLFRRDELDAIQAGLILFPLYEQTKDERYVKAAKRLRSLYGTLNRTSEGGFWHK
DGYPYQMWLDGLYMGGPFALKYANLKQETELFDQVVLQESLMRKHTKDAKTGLFYHAWDEAKKM
PWANEETGCSPEFWARSIGWYVMSLADMIEELPKKHPNRHVWKNTLQDMIKSICRYQDKETGLW
YQIVDKGDRSDNWLESSGSCLYMYAIAKGINKGYLDRAYETTLLKAYQGLIQHKTETSEDGAFLVKDI
CVGTSAGFYDYYVSRERSTNDLHGAGAFILAMTELEPLFRSAGK
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>DM_train503
MAAVTLHLRAETKPLEARAALTPTTVKKLIAKGFKIYVEDSPQSTFNINEYRQAGAIIVPAGSWKTAP
RDRIIIGLKEMPETDTFPLVHEHIQFAHCYKDQAGWQNVLMRFIKGHGTLYDLEFLENDQGRRVAAF
GFYAGFAGAALGVRDWAFKQTHSDDEDLPAVSPYPNEKALVKDVTKDYKEALATGARKPTVLIIGAL
GRCGSGAIDLLHKVGIPDANILKWDIKETSRGGPFDEIPQADIFINCIYLSKPIAPFTNMEKLNNPNRR
LRTVVDVSADTTNPHNPIPIYTVATVFNKPTVLVPTTAGPKLSVISIDHLPSLLPREASEFFSHDLLPSL
ELLPQRKTAPVWVRAKKLFDRHCARVKRSSRL
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>DM_train504

MGNSYITKEDNQISATSEQTEDSACLSAMVLTTNLVYPAVLNAAIDLNLFEIIAKATPPGAFMSPSEIA
SKLPASTQHSDLPNRLDRMLRLLASYSVLTSTTRTIEDGGAERVYGLSMVGKYLVPDESRGYLASFTT
FLCYPALLQVWMNFKEAVVDEDIDLFKNVHGVTKYEFMGKDKKMNQIFNKSMVDVCATEMKRML
EIYTGFEGISTLVDVGGGSGRNLELIISKYPLIKGINFDLPQVIENAPPLSGIEHVGGDMFASVPQGDAM
ILKAVCHNWSDEKCIEFLSNCHKALSPNGKVIIVEFILPEEPNTSEESKLVSTLDNLMFITVGGRERTE
KQYEKLSKLSGFSKFQVACRAFNSLGVMEFYK
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train505
DPFAGDPPRHPGLRVNSQKPFNAEPPAELLAERFLTPNELFFTRNHLPVPAVEPSSYRLRVDGPGGR
TLSLSLAELRSRFPKHEVTATLQCAGNRRSEMSRVRPVKGLPWDIGAISTARWGGARLRDVLLHAGF
PEELQGEWHVCFEGLDADPGGAPYGASIPYGRALSPAADVLLAYEMNGTELPRDHGFPVRVVVPGV
VGARSVKWLRRVAVSPDESPSHWQQNDYKGFSPCVDWDTVDYRTAPAIQELPVQSAVTQPRPGAAV
PPGELTVKGYAWSGGGREVVRVDVSLDGGRTWKVARLMGDKAPPGRAWAWALWELTVPVEAGTE
LEIVCKAVDSSYNVQPDSVAPIWNLRGVLSTAWHRVRVSVQD
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train507
SPEVTMNISQMITYWGYPNEEYEVVTEDGYILEVNRIPYGKKNSGNTGQRPVVFLQHGLLASATNWI
SNLPNNSLAFILADAGYDVWLGNSRGNTWARRNLYYSPDSVEFWAFSFDEMAKYDLPATIDFIVKK
TGQKQLHYVGHSQGTTIGFIAFSTNPSLAKRIKTFYALAPVATVKYTKSLINKLRFVPQSLFKFIFGDKI
FYPHNFFDQFLATEVCSREMLNLLCSNALFIICGFDSKNFNTSRLDVYLSHNPAGTSVQNMFHWTQA
VKSGKFQAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPIAVWNGGKDLLADPQDVGLLLPKLPNLI
YHKEIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKK
00000000000000000000000000000000000000000000111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train509
GSSSSGLVPRGSHMSVQNVVLFDTQPLTLMLGGKLSYINVAYQTYGTLNDEKNNAVLICHALTGDAEP
YFDDGRDGWWQNFMGAGLALDTDRYFFISSNVLGGCKGTTGPSSINPQTGKPYGSQFPNIVVQDIV
KVQKALLEHLGISHLKAIIGGSFGGMQANQWAIDYPDFMDNIVNLCSSIYFSAEAIGFNHVMRQAVIN
DPNFNGGDYYEGTPPDQGLSIARMLGMLTYRTDLQLAKAFGRATKSDGSFWGDYFQVESYLSYQGK
KFLERFDANSYLHLLRALDMYDPSLGYENVKEALSRIKARYTLVSVTTDQLFKPIDLYKSKQLLEQSG

VDLHFYEFPSDYGHDAFLVDYDQFEKRIRDGLAGN
11111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train510
MAHHHHHHMNILQEPIDFLKKEELKNIDLSQMSKKERYKIWKRIPKCELHCHLDLCFSADFFVSCIR
KYNLQPNLSDEEVLDYYLFAKGGKSLGEFVEKAIKVADIFHDYEVIEDLAKHAVFNKYKEGVVLMEF
RYSPTFVAFKYNLDIELIHQAIVKGIKEVVELLDHKIHVALMCIGDTGHEAANIKASADFCLKHKADF
VGFDHGGHEVDLKEYKEIFDYVRESGVPLSVHAGEDVTLPNLNTLYSAIQVLKVERIGHGIRVAESQE
LIDMVKEKNILLEVCPISNVLLKNAKSMDTHPIRQLYDAGVKVSVNSDDPGMFLTNINDDYEELYTH
LNFTLEDFMKMNEWALEKSFMDSNIKDKIKNLYF
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train511
WDGKIDGTGTHAMIVTQGVSILENDLSKNEPESVRKNLEILKENMHELQLGSTYPDYDKNAYDLYQ
DHFWDPDIDNNFSKDNSWYLAYSIPDTGESQIRKFSALARYEWQRGNYKQATFYLGEAMHYFGDID
TPYHPANVTAVDSAGHVKFETFAEERKEQYKINTAGCKTNEAFYTDILKNKDFNAWSKEYARGFAK
TGKSIYYSHASMSHSWDDWDYAAKVTLANSQKGTAGYIYRFLHDVSEGNDPSVGKNVKELVAYISTS
GEKDAGTDDYMYFGIKTKDGKTQEWEMDNPGNDFMTGSKDTYTFKLKDENLKIDDIQNMWIRKR
KYTAFPDAYKPENIKIIANGKVVVDKDINEWISGNSTYNIK
00000000000000000000000000000000000000000000000000000000000000000000
00011111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train512
MSTDIDCIVIGAGVVGLAIARALAAGGHEVLVAEAAEGIGTGTSSRNSEVIHAGIYYPADSLKARLCVR
GKHLLYEYCAARGVPHQRLGKLIVATSDAEASQLDSIARRAGANGVDDLQHIDGAAARRLEPALHCT
AALVSPSTGIVDSHALMLAYQGDAESDGAQLVFHTPLIAGRVRPEGGFELDFGGAEPMTLSCRVLINA
AGLHAPGLARRIEGIPRDSIPPEYLCKGSYFTLAGRAPFSRLIYPVPQHAGLGVHLTLDLGGQAKFGPD
TEWIATEDYTLDPRRADVFYAAVRSYWPALPDGALAPGYTGIRPKISGPHEPAADFAIAGPASHGVAG
LVNLYGIESPGLTASLAIAEETLARLAA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001
>DM_train513
KERRRAVLELLQRPGNARCADCGAPDPDWASYTLGVFICLSCSGIHRNIPQVSKVKSVRLDAWEEAQ
VEFMASHGNDAARARFESKVPSFYYRPTPSDCQLLREQWIRAKYERQEFIYPEKQEPYSAGYREGFL
WKRGRDNGQFLSRKFVLTEREGALKYFNRNDAKEPKAVMKIEHLNATFQPAKIGHPHGLQVTYLK
DNSTRNIFIYHEDGKEIVDWFNALRAARFHYLQVAFPGASDADLVPKLSRNYLKEGYMEKTGPKQT
EGFRKRWFTMDDRRLMYFKDPLDAFARGEVFIGSKESGYTVLHGFPPSTQGHHWPHGITIVTPDRK
FLFACETESDQREWVAAFQKAVDRPMLPQEYAVEAHF
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000111111000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0011111111111
>DM_train514
GMRVDKHEVRVGELAAGQPLSLPVYRFKGKGAGPSVYIQANVHGAEVQGNAVIYQLMKLLEHYELL
GDISLVPLANPLGINQKSGEFTLGRFDPITGVNWNREYLDHGFNIEVWYQEHSHLDDDTLITAFRAT
LVEECARRLNNPWGVTTGHRLAVTLQSMAHRADIVLDLHTGPKSCKHLYCPEYERSAAQYFSIPYTL
LIPNSFGGAMDEAAFVPWWTLAEVASSHGRELGVRVSALTLELGSQERIDLDDALEDAEGILAYLSH
RGVIAETVLPKPMKRYGCFLKNYRKFHAPKAGMVEYLGKVGVPMKATDPLVNLLRLDLYGTGEELT
VLRLPEDGVPILHFASASVHQGTELYKVMTKVFEL
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train517
MPNPPAKEDTWAFGPIGSPFPDNPVKALGQQNMYVALWYKNGRPMHGRAWNNGGVIECSFPYNK
SELTGVKDLGGQIQVLQYKGNHLSLGYWYNWIKYSDRFDKMDKGAEMLRCGDSFPILWSERPGGAL
LGYADNKTEIARFSHDGKVDEVSGSALANMLIIARELKGGPPYCECEECKSEPPKPIVRVTLNEWADF
RCGDPWPTVGTPVRALGRSLDTLPGENPDQYVALWYQSGEPVMGRIWNDGGKIAACFGWGGHEY
RQKIGSIQILYELPEAIRGFDYDWKPFPEAAQFGAKEWIPVHVDHHKGNISPAVLIVDGKEILGKADIR
NERATIGYGGTEKVLVGPAVHSCMVLCRKAKPGCTID
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000011110000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train518
ASHSRKFLDVRSEEELLSCIKKETEAGKLPPNVAAGMEELYQNYRNAVIESGNPKADEIVLSNMTVAL
DRILLDVEDPFVFSSHHKAIREPFDYYIFGQNYIRPLIDFGNSFVGNLSLFKDIEEKLQQGHNVVLISN

HQTEADPAIISLLLEKTNPYIAENTIFVAGDRVLADPLCKPFSIGRNLICVYSKKHMFDIPELTETKRK
ANTRSLKEMALLLRGGSQLIWIAPSGGRDRPDPSTGEWYPAPFDASSVDNMRRLIQHSDVPGHLFP
LALLCHDIMPPPSQVEIEIGEKRVIAFNGAGLSVAPEISFEEIAATHKNPEEVREAYSKALFDSVAMQY
NVLKTAISGKQGLGASTADVSLSQPW
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111111110000000000000000000000000000000000000000000000000000000000
000000000000
>DM_train520
MKMKLAVLPGDGIGPEVMDAAIRVLKTVLDNDGHEAVFENALIGGAAIDEAGTPLPEETLDICRRSD
AILLGAVGGPKWDHNPASLRPEKGLLGLRKEMGLFANLRPVKAYATLLNASPLKRERVENVDLVIVR
ELTGGLYFGRPSERRGPGENEVVDTLAYTREEIERIIEKAFQLAQIRRKKLASVDKANVLESSRMWRE
IAEETAKKYPDVELSHMLVDSTSMQLIANPGQFDVIVTENMFGDILSDEASVITGSLGMLPSASLRSD
RFGMYEPVHGSAPDIAGQGKANPLGTVLSAALMLRYSFGLEKEAAAIEKAVDDVLQDGYCTGDLQV
ANGKVVSTIELTDRLIEKLNNSAARPRIFQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01111111111
>DM_train522
MGSSHHHHHHSSGLVSRRHMNIDMAALHAIEVDRGISVNELLETIKSALLTAYRHTQGHQTDARIEI
DRKTGVVRVIARETDEAGNLISEWDDTPEGFGRIAATTARQVMLQRFRDAENERTYGEFSTREGEIV
AGVIQRDSRANARGLVVVRIGTETKASEGVIPAAEQVPGESYEHGNRLRCYVVGVTRGAREPLITLSR
THPNLVRKLFSLEVPEIADGSVEIVAVAREAGHRSKIAVRSNVAGLNAKGACIGPMGQRVRNVMSELS
GEKIDIIDYDDDPARFVANALSPAKVVSVSVIDQTARAARVVVPDFQLSLAIGKEGQNARLAARLTGW
RIDIRGDAPPPPPGQPEPGVSRGMAHDR
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111111
11111111111
>DM_train523
MPYRNCWSKIMKKLINDVQDVLDEQLAGLAKAHPSLTLHQDPVYVTRADAPVAGKVALLSGGGSGH
EPMHCGYIGQGMLSGACPGEIFTSPTPDKIFECAMQVDGGEGVLLIIKNYTGDILNFETATELLHDSG
VKVTTVVIDDDVAVKDSLYTAGRRGVANTVLIEKLVGAAAERGDSLDACAELGRKLNNQGHSIGIALG
ACTVPAAGKPSFTLADNEMEFGVGIHGEPGIDRRPFSSLDQTVDEMFDTLLVNGSYHRTLRFWDYQ
QGSWQEEQQTKQPLQSGDRVIALVNNLGATPLSELYGVYNRLTTRCQQAGLTIERNLIGAYCTSLDMT
GFSITLLKVDDETLALWDAPVHTPALNWGK
11111111111111111110000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000111111111
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train524
AVPATIPLTITNNSGRAEQIHIYNLGTELSSGRQGWADASGAFHPWPAGGNPPTPAPDASIPGPAPGR
STTIQIPKFSGRIYFSYGRKMEFRLTTGGLVQPAVQNPTDPNRDILFNWSEYTLNDSGLWINSTQVDM
FSAPYTVGVRRGDGTTLSTGKLRPGGYNGVFNALRGQSGGWANLIQTRSDGTVLRALSPLYGVETGA
LPASVMDDYINRVWNKYTGTDLIVTPFADRPDVRYTGRVSGGVLRFTDGSGAVVTTFQKPDASSVFG
CHRLLDAPNDQVRGPISRTLCAGFNRTTLLANPHQPDRSAAGFYQEPVTNHYARIIHAHMADGKAY
GFAFDDVGHHESLVHDGDPRGASLTLDPFD
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train526
KKCKYSFKCVNSLKEDHNQPLFGVQFNWHSKEGDPLVFATVGSNRVTLYECHSQGEIRLLQSYVDAD
ADENFYTCAWTYDSNTSHPLLAVAGSRGIIRIINPITMQCIKHYVGHGNAINELKFHPRDPNLLLSVS
KDHALRLWNIQTDTLVAIFGGVEGHRDEVLSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKE
SYDYNPNKTNRPFISQKIHFPDFSTRDIHRNYVDCVRWLGDLILSKSCENAIVCWKPGKMEDDIDKI
KPSESNVTILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVGKLYVWDLEVEDPHKAKCTTLTHHK
CGAAIRQTSFSRDSSILIAVCDDASIWRWDRLR
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000011
>DM_train528
ESDSEMVPFPQLPMPIENNYRACTIPYRFPSDDPKKATPNEISWINVFANSIPSFKKRAESDITVPDA
PARAEKFAERYAGILEDLKKDPESHGGPPDGILLCRLREQVLRELGFRDIFKKVKDEENAKAISLFPQ
VVSLSDAIEDDGKRLENLVRGIFAGNIFDLGSAQLAEVFSRDGMSFLASCQNLVPRPWVIDDLENFQA
KWINKSWKKAVIFVDNSGADIILGILPFARELLRRGAQVVLAANELPSINDITCTELTEILSQLKDENG
QLLGVDTSKLLIANSGNDLPVIDLSRVSQELAYLSSDADLVIVEGMGRGIETNLYAQFKCDSLKIGMVK
HLEVAEFLGGRLYDCVFKFNEVQS
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000111111111111110000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000110000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000011

>DM_train529
MKPHALIGLLAGMLLSSSLYAADSTKPLPLHIGGRVLVESPANQPVSYTYSWPAVYFETAFKGQSLTLK
FDDDQNIFRLIVDDKAPVVINKPGKVDYPVESLAPGKHRVRLEKLTETQSTSGRFLGFYTDPSAKPL
ALPKRKRQIEFIGDSFTVGYGNTSPSRECTDEELFKTTNSQMAFGPLTAKAFDADYQINASSGFGIVR
NYNGTSPDKSLLSLYPYTLNNPDQLYHNKHWKPQVIVIGLGTNDFSTALNDNERWKTREALHADYV
ANYVKFVKQLHSNNARAQFILMNSDQSNGEIAEQVGKVVAQLKGGGLHQVEQIVFKGLDYSGCHWH
PSANDDQLLANLLITHLQQKKGIWLEHHHH
11111111111111111111111111000000000000000110000000000000000001000000000
00000000001100000000000000111111111000000000000000000001111111110000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011111
>DM_train530
MVVEGVKTDFGPPYFRDLLHPVIAKNYGKWKYHEVVKPGVIKRVAESGDVIYVVRFGTPRLLSIYTV
RELCDIADKYSDGYLRWTSRNNVEFFVTDESKIDDLINEVQERVGFPCGGTWDAVKGEYGLSNIVHT
QGWIHCHTPAIDASGIVKAVMDELYEYFTDHKLPAMCRISLACCANMCGAVHASDIAIVGIHRTPPIP
NDEAIRKTCEIPSTVAACPTGALKPDMKNKTIKVDVEKCMYCGNCYTMCPGMPLFDPENDGAAIMV
GGKLSEARRMPELSKVVVPWVPNEPPRWPTLVKYVKQILEAWAANANKHERLIEWVDRIGWERFF
ELTGLEFTQHLIDDYRITPYFYSEFRASTQFKW
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train533
NVIDLFSGVGGLSLGAARAGFDVKMAVEIDQHAINTHAINFPRSLHVQEDVSLLNAEIIKGFFKNDMP
IDGIIGGPPCQGFSSIGKGNPDDSRNQLYMHFYRLVSELQPLFFLAENVPGIMQEKYSGIRNKAFNLVS
GDYDILDPIKVKASDYGAPTIRTRYFFIGVKKSLKLDISDEVFMPKMIDPVTVKDALYGLPDIIDANWQ
SDSESWRTIKKDRKGGFYEKLWGQIPRNVGDTESIAKLKNNIISGCTGTLHSKIVQERYASLSFGETD
KISRSTRLDPNGFCPTLRAGTARDKGSFQAVRPIHPYHPRVITPREAARLQGFPDWFRFHVTKWHSF
RQIGNSVSPIVAEYILKGLYNLLN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000001111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111000000000000000000000000000000000000000000000000000
0000000000
>DM_train534
MTSRVDPANPGSELDSAIRDTLTYSNSPVPNALLTASESGFLDAAGIELDVLSGQQGTVHFTYDQPAY
TRFGGEIPPLLSEGLRAPGRTRLLGITPLLGRQGFFVRDDSPITAAADLAGRRIGVSASAIRILRGQLGD
YLELDPWRQTLVALGSWEARALLHTLEHGELGVDDVELVPISSPGVDVPAEQLEESATVKGADLFPD
VARGQAAVLASGDVDALYSWLPWAGELQATGARPVVDLGLDERNAYASVWTVSSGLVRQRPGLVQR

LVDAAVDAGLWARDHSDAVTSLHAANLGVSTGAVGQGFGADFQQRLVPRLDHDALALLERTQQFLL
TNNLLQEPVALDQWAAPEFLNNSLNRHR
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000011
>DM_train536
MMSGQGKRLMVMAGGTGGHVFPGLAVAHHLMAQGWQVRWLGTADRMEADLVPKHGIEIDFIRIS
GLRGKGIKALIAAPLRIFNAWRQARAIMKAYKPDVVLGMGGYVSGPGGLAAWSLGIPVVLHEQNGIA
GLTNKWLAKIATKVMQAFPGAFPNAEVVGNPVRTDVLALPLPQQRLAGREGPVRVLVVGGSQGARI
LNQTMPQVAAKLGDSVTIWHQSGKGSQQSVEQAYAEAGQPQHKVTEFIDDMAAAYAWADVVVCRS
GALTVSEIAAAGLPALFVPFQHKDRQQYWNALPLEKAGAAKIIEQPQLSVDAVANTLAGWSRETLLT
MAERARAASIPDATERVANEVSRVARALEHHHHHH
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
011111111
>DM_train537
MGFKCGIVGLPNVGKSTLFNALTKAGIEAANYPFCTIEPNTGVVPMPDPRLDALAEIVKPERILPTTM
EFVDIAGLVAGASKGEGLGNKFLANIRETDAIGHVVRCFENDDIVHVAGKIDPLDDIDTINTELALADL
DSCERAIQRLQKRAKGGDKEAKFELSVMEKILPVLENAGMIRSVGLDKEELQAIKSYNFLTLKPTMYI
ANVNEDGFENNPYLDRVREIAAKEGAVVVPVCAAIESEIAELDDEEKVEFLQDLGIEEPGLNRVIRAG
YALLNLQTYFTAGVKEVRAWTVSVGATAPKAAAVIHTDFEKGFIRAEVIAYEDFIQFNGENGAKEAGK
WRLEGKDYIVQDGDVMHFRFNV
00000000000000000000000001111111111111100000000000000000000000000000
00000000000000000000000000000000000001111111111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000
>DM_train538
ASTLKSGSKEVENLKKPFMPPREVHVQVTHSMPPQKIEIFKSLDNWAEENILVHLKPVEKCWQPQD
FLPDPASDGFDEQVRELRERAKEIPDDYFVVLVGDMITEEALPTYQTMLNTLDGVRDETGASPTSW
AIWTRAWTAEENRHGDLLNKYLYLSGRVDMRQIEKTIQYLIGSGMDPRTENSPYLGFIYTSFQERAT
FISHGNTARQAKEHGDIKLAQICGTIAADEKRHETAYTKIVEKLFEIDPDGTVLAFADMMRKKISMPA
HLMYDGRDDNLFDHFSAVAQRLGVYTAKDYADILEFLVGRWKVDKLTGLSAEGQKAQDYVCRLPPR
IRRLEERAQGRAKEAPTMPFSWIFDRQVKL
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000111111100000000000
00000000
>DM_train539
MFQPLLDAYVESASIEKMASKSPPPLKIAVANWWGDEEIKEFKNSVLYFILSQRYTITLHQNPNEFSD
LVFGNPLGSARKILSYQNAKRVFYTGENESPNFNLFDYAIGFDELDFNDRYLRMPLYYDRLHHKAES
VNDTTAPYKLKDNSLYALKKPSHCFKEKHPNLCAVVNDESDPLKRGFASFVASNPNAPIRNAFYDAL
NSIEPVTGGGSVRNTLGYNVKNKNEFLSQYKFNLCFENTQGYGYVTEKIIDAYFSHTIPIYWGSPSVAK
DFNPKSFVNVHDFKNFDEAIDYIKYLHTHKNAYLDMLYENPLNTLDGKAYFYQNLSFKKILAFFKTI
LENDTIYHDNPFIFCRDLNEPLVTI
0000000000000000000000000000000000000000000000000000000000000000000000
0001111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000001111111
11111111
>DM_train540
MHSFASLLAYGLVAGATFASASPIEARDSCTFTTAAAAKAGKAKCSTITLNNIEVPAGTTLDLTGLTSG
TKVIFEGTTTFQYEEWAGPLISMSGEHITVTGASGHLINCDGARWWDGKGTSGKKKPKFFYAHGLD
SSSITGLNIKNTPLMAFSVQANDITFTDVTINNADGDTQGGHNTDAFDVGNSVGVNIIKPWVHNQD
DCLAVNSGENIWFTGGTCIGGHGLSIGSVGDRSNNVVKNVTIEHSTVSNSENAVRIKTISGATGSVSEI
TYSNIVMSGISDYGVVIQQDYEDGKPTGKPTNGVTIQDVKLESVTGSVDSGATEIYLLCGSGSCSDWT
WDDVKVTGGKKSTACKNFPSVASC
1111111111111111111111111110000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train541
SVNNSQLVVSVAGTVEGTNQDISLKFFEIDLTSRPAHGGKTEQGLSPKSKPFATDSGAMPHKLEKADL
LKAIQEQLIANVHSNDDYFEVIDFASDATITDRNGKVYFADKDGSVTLPTQPVQEFLLSGHVRVRPYK
EKPIQNQAKSVDVEYTVQFTPLNPDDDFRPGLKDTKLLKTLAIGDTITSQELLAQAQSILNKTHPGYT
IYERDSSIVTHDNDIFRTILPMDQEFTYHVKNREQAYEINKKSGLNEEINNTDLISEKYYVLKKGEKP
YDPFDRSHLKLFTIKYVDVNTNELLKSEQLLTASERNLDFRDLYDPRDKAKLLYNNLDAFGIMDYTL
TGKVEDNHDDTNRIITVYMGKRP
0000000000000000000000000000000001111111111111111111111111000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111000000000000000000000000000000000000000000
0000000000000000000000000001111111111000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train542
ALTVSAGTKSKLAKPIQDLIKMIFDVESMKKAMVEFEIDLQKMPLGKLSKRQIQSAYSILNEVQQAVS

DGGSESQILDLSNRFYTLIPHDFGMKKPPLLSNLEYIQAKVQMLDNLLDIEVAYSLLRGGNEDGDKDP
IDINYEKLRTDIKVVDKDSEEAKIIKQYVKNTHAATHNAYDLKVVEIFRIEREGESQRYKPFKQLHNR
QLLWHGSRTTNFAGILSQGLRIAPPEAPVTGYMFGKGIYFADMVSKSANYCHTSQADPIGLILLGEVA
LGNMYELKNASHITKLPKGKHSVKGLGKTAPDPTATTTLDGVEVPLGNGISTGINDTCLLYNEYIVYD
VAQVNLKYLLKLKFNYKTSLW
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
011111
>DM_train544
VKQVFNFNAGPSALPKPALERAQKELLNFNDTQMSVMELSHRSQSYEEVHEQAQNLLRELLQIPND
YQILFLQGGASLQFTMLPMNLLTKGTIGNYVLTGSWSEKALKEAKLLGETHIAASTKANSYQSIPDFS
EFQLNENDAYLHITSNNTIYGTQYQNFPEINHAPLIADMSSDILSRPLKVNQFGMIYAGAQKNLGPSG
VTVVIVKKDLLNTKVEQVPTMLQYATHIKSDSLYNTPPTFSIYMLRNVLDWIKDLGGAEAIAKQNEE
KAKIIYDTIDESNGFYVGHAEKGSRSLMNVTFNLRNEELNQQFLAKAKEQGFVGLNGHRSVGGCRAS
IYNAVPIDACIALRELMIQFKENA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train545
PPFPWFGMDIGGTLVKLVYFEPKDITAEEEQEEVENLKSIRKYLTSNTAYGKTGIRDVHLELKNLTMC
GRKGNLHFIRFPSCAMHRFIQMGSEKNFSSLHTTLCATGGGAFKFEEDFRMIADLQLHKLDELDCLI
QGLLYVDSVGFNGKPECYYFENPTNPELCQKKPYCLDNPYPMLLVNMGSGVSILAVYSKDNYKRVTG
TSLGGGTFLGLCCLLTGCETFEEALEMAAKGDSTNVDKLVKDIYGGDYERFGLQGSAVASSFGNMMS
KEKRDSISKEDLARATLVTITNNIGSIARMCALNENIDRVVFVGNFLRINMVSMKLLAYAMDFWSKG
QLKALFLEHEGYFGAVGALLELFK
11000000000000000000000111111111111000000000000000000000000000001100
00000000000000000000111111111111000000000000011111110000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train546
SCDLNATNYIRGCQSKTYDGKIFPGKGGEKQWICKDTIIHGDTNGACIPPRTQNLCVGELWDKSYGG
RSNIKNDTKELLKEKIKNAIHKETELLYEYHDTGTAIISKNDKKGQKGKNDPNGLPKGFCHAVQRSFI
DYKNMILGTSVNIYEHIGKLQEDIKKIIEKGTPQQKDKIGGVGSSTENVNAWWKGIEREMWDAVRCA
ITKINKKNNNSIFNGDECGVSPPTGNDEDQSVSWFKEWGEQFCIERLRYEQNIREACTINGKNEKKC
INSKSGQGDKIQGACKRKCEKYKKYISEKKQEWDKQKTKYENKYVGKSASDLLKENYPECISANFDFI
FNDNIEYKTYYPYGDYSSICSCE

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000111111110000000000000000000000000000000000
0000000000000111100000000000000000000000000000000111110000000111100000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train547
MRGSHHHHHHGSLVPRGSMVAADAPAAGTDITNQLTNVTVGIDSGTTVYPHQAGYVKLNYGFSVPN
SAVKGDTFKITVPKELNLNGVTSTAKVPPIMAGDQVLANGVIDSDGNVIYTFTDYVNTKDDVKATLT
MPAYIDPENVKKTGNVTLATGIGSTTANKTVLVDYEKYGKFYNLSIKGTIDQIDKTNNTYRQTIYVNP
SGDNVIAPVLTGNLKPNTDSNALIDQQNTSIKVYKVDNAADLSESYFVNPENFEDVTNSVNITFPNP
NQYKVEFNTPDDQITTPYIVVVNGHIDPNSKGDLALRSTLYGYNSNIIWRSMSWDNEVAFNNGSGSG
DGIDKPVVPEQPDEPGEIEPIPEK
1111111111111111111111111100000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train548
MIESKTYAVLGLGNGGHAFAAYLALKGQSVLAWDIDAQRIKEIQDRGAIIAEGPGLAGTAHPDLLTSDI
GLAVKDADVILIVVPAIHHASIAANIASYISEGQLIILNPGATGGALEFRKILRENGAPEVTIGETSSMLF
TCRSERPGQVTVNAIKGAMDFACLPAAKAGWALEQIGSVLPQYVAVENVLHTSLTNVNAVMHPLPT
LLNAARCESGTPFQYYLEGITPSVGSLAEKVDAERIAIAKAFDLNVPSVCEWYKESYGQSPATIYEAVQ
GNPAYRGIAGPINLNTRYFFEDVSTGLVPLSELGRAVNVPTPLIDAVLDLISSLIDTDFRKEGRTLEKLG
LSGLTAAGIRSAVE
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111110000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train549
MGDVRLSALSTLNYRNLAPGTLNFPEGVTGIYGENGAGKTNLLEAAYLALTGQTDAPRIEQLIQAGET
EAYVRADLQQGGSLSIQEVGLGRGRRQLKVDGVRARTGDLPRGGAVWIRPEDSELVFGPPSGRRAYL
DSLLSRLSARYGEQLSRYERTVSQRNAALRGGEEWAMHVWDDVLLKLGTEIMLFRRRALTRLDELA
REANAQLGSRKTLALTLTESTSPETYAADLRGRRAEELARGSTVTGPHRDDLLLTLGDFPASDYASRG
EGRTVALALRRAELELLREKFGEDPVLLLDDFTAELDPHRRQYLLDLAASVPQAIVTGTELAPGAALT
LRAQAGRFTPVADEEMQAEGTA
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000
>DM_train550
PGDVVIEELFNRIPQANVRTTSEYMQSAADSLVSTSLWNTGQPFRVESELGERPRTLVRGTVLGQED
PYAYLEATDQETGESFEVHVPYFTERPPSNAIKQMKEEVLRLRLLRGIKNQKQAKVHLRFIFPFDLVK
DPQKKKMIRVRLDERDMWVLSRFFLYPRMQSNLQTFGEVLLSHSSTHKSLVHHARLQLTLQVIRLL
ASLHHYGLVHTYLRPVDIVLDQRGGVFLTGFEHLVRDGARVVSSVSRGFEPPELEARRATISYHRDRR
TLMTFSFDAWALGLVIYWIWCADLPITKDAALGGSEWIFRSCKNIPQPVRALLEGFLRYPKEDRLLP
LQAMETPEYEQLRTELSAALPLY
000000000000000000000010000000000000010000000000000000000000000000
000001000000000000001000000000000000000000000000000000000000000000
000111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000011111100000000000000000000000000000000000000000000000000
0000
>DM_train551
MKIAILGAGCYRTHAAAGITNFMRACEVAKEVGKPEIALTHSSITYGAELLHLVPDVKEVIVSDPCFAE
EPGLVVIDEFDPKEVMEAHLSGNPESIMPKIREVVKAKAKELPKPPKACIHLVHPEDVGLKVTSDDR
EAVEGADIVITWLPKGNKQPDIIKKFADAIPEGAIVTHACTIPTTKFAKIFKDLGREDLNITSYHPGCV
PEMKGQVYIAEGYASEEAVNKLYEIGKIARGKAFKMPANLIGPVCDMCSAVTATVYAGLLAYRDAVTK
ILGAPADFAQMMADEALTQIHNLMKEKGIANMEEALDPAALLGTADSMCFGPLAEILPTALKVLEKH
KVVEEEGKTKCEIMSQKE
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111111111111
>DM_train552
MAVKEATSETKKRSGYEIITLTSWLLQQEQKGIIDAELTIVLSSISMACKQIASLVQRANISNLTGTQGA
VNIQGEDQKKLDVISNEVFSNCLRSSGRTGIIASEEEDVPVAVEESYSGNYIVVFDPLDGSSNLDAAVS
TGSIFGIYSPNDESLPDFGDDSDDNTLGTEEQRCIVNVCQPGSNLLAAGYCMYSSSVIFVLTIGKGVFV
FTLDPLYGEFVLTQENLQIPKSGKIYSFNEGNYKLWDENLKKYIDDLKEPGPSGKPYSARYIGSLVGDF
HRTLLYGGIYGYPRDKKSKNGKLRLLYECAPMSFIVEQAGGKGSDGHQRVLDIQPTEIHQRVPLYIGST
EEVEKVEKYLA
111111111111111110000000000000000000000000000000000000000000111111
111100000000000000000000000000000000000000000000000000000000000000
000000011111111111111000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train553
MSAFEKPQIIAHIQKGFNYTVFDCKWVPCSAKFVTMGNFARGTGVIQLYEIQHGDLKLLREIEKAKPI
KCGTFGATSLQQRYLATGDFGGNLHIWNLEAPEMPVYSVKGHKEIINAIDGIGGLGIGEGAPEIVTGS
RDGTVKVWDPRQKDDPVANMEPVQGENKRDCWTVAFGNAYNQEERVVCAGYDNGDIKLFDLRN

MALRWETNIKNGVCSLEFDRKDISMNKLVATSLEGKFHVFDMRTQHPTKGFASVSEKAHKSTVWQ
VRHLPQNRELFLTAGGAGGLHLWKYEYPIQRSKKDSEGIEMGVAGSVSLLQNVTLSTQPISSLDWSP
DKRGLCVCSSFDQTVRVLIVTKLNKI
11110000000000000000000000000000000000110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000110000000000000000000000000000000000000000000000000001111
>DM_train554
GMNRLRTSFQQTTGQISGHGKRNVGVLKTAFAAVADEMASDQYGTGAIIEPFEQKFADVLGMDDAV
FFPSGTMAQQVALRIWSDETDNRTVAYHPLCHLEIHEQDGLKELHPIETILVGAADRLMTLDEIKAL
PDIACLLLELPQREIGGVAPAFSELETISRYCRERGIRLHLDGARLFEMLPYYEKTAAEIAGLFDSIYISF
YKGLGGIAGAILAGPAAFCQTARIWKRRYGGDLISLYPYIVSADYYYELRKDRMGQYYEQAKQLAEQF
NALPGVHTTPEVPVSNMFHLHFDGQAADISPKLEQVQEETGLGFVGYLVDKDGYCSTEISVGDAYGE
LDQQTRDAGFARLRQAFS
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01
>DM_train555
MLHILCQGTPFEIGYEHGSAAKAVIARSIDFAVDLIRGKTKKTDEELKQVLSQLGRVIEERWPKYYEEI
RGIAKGAERDVSEIVMLNTRTEFAYGLKAARDGCTTAYCQLPNGALQGQNWDFFSATKENLIRLTIR
QAGLPTIKFITEAGIIGKVGFNSAGVAVNYNALHLQGLRPTGVPSHIALRIALESTSPSQAYDRIVEQGG
MAASAFIMVGNGHEAFGLEFSPTSIRKQVLDANGRMVHTNHCLLQHGKNEKELDPLPDSWNRHQR
MEFLLDGFDGTKQAFAQLWADEDNYPFSICRAYEEGKSRGATLFNIIYDHARREATVRLGRPTNPDE
MFVMRFDEEDERSALNARL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01
>DM_train558
MQTLHALLRDIPAPDAEAMARTQQHIDGLLKPPGSLGRLETLAVQLAGMPGLNGTPQVGEKAVLVM
CADHGVWDEGVAVSPKIVTAIQAANMTRGTTGVCVLAAQAGAKVHVIDVGIDAEPIPGVVNMRVAR
GCGNIAVGPAMSRLQAEALLLEVSRYTCDLAQRGVTLFGVGELGMANTTPAAAMVSVFTGSDAKEV
VGIGANLPPSRIDNKVDVVRRAIAINQPNPRDGIDVLSKVGGFDLVGMTGVMLGAARCGLPVLLDGF
LSYSAALAACQIAPAVRPYLIPSHFSAEKGARIALAHLSMEPYLHMAMRLGEGSGAALAMPIVEAACA
MFHNMGELAASNIVLPEGNANAT
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011111111111
1
>DM_train559
EIKTTTTLHRVVEETTKPLGATLVVETDISRKDVNGLARGHLVDGIPLCTPSFYADIAMQVGQYSMQR
LRAGHPGAGAIDGLVDVSDMVVDKALVPHGKGPQLLRTTLTMEWPPKAAATTRSAKVKFATYFADG
KLDTEHASCTVRFTSDAQLKSLRRSVSEYKTHIRQLHDGHAKGQFMRYNRKTGYKLMSSMARFNP
DYMLLDYLVLNEAENEAASGVDFSLGSSEGTFAAHPAHVDAITQVAGFAMNANDNVDIEKQVYVNH
GWDSFQIYQPLDNSKSYQVYTKMGQAKENDLVHGDVVVLDGEQIVAFFRGLTLRSVPRGALRVVLQT
TVKKADRQLGFKTMPSPPPPTTTM
0000000000000000000000000000000000000000000000000000000000000000000001
1111111110000000000000000000000000000000000000000000000000011110000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000110000000000000000000000000000000000000011111111111111111111111
1
>DM_train560
MKLTLKNLSMAIMMSTIVMGSSAMAADSNEKIVIAHRGASGYLPEHTLPAKAMAYAQGADYLEQDL
VMTKDDNLVVLHDHYLDRVTDVADRFPDRARKDGRYYAIDFTLDEIKSLKFTEGFDIENGKKVQTY
PGRFPMGKSDFRVHTFEEEIEFVQGLNHSTGKNIGIYPEIKAPWFHHQEGKDIAAKTLEVLKKYGYT
GKDDKVYLQCFDADELKRIKNELEPKMGMELNLVQLIAYTDWNETQQKQPDGSWVNYNYDWMF
KPGAMKQVAEYADGIGPDYHMLIEETSQPGNIKLTGMVQDAQQNKLVVHPYTVRSDKLPEYTPDVN
QLYDALYNKAGVNGLFTDFPDKAVKFLN
1111111111111111111111111110000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train561
HHHHHHPMSNTNIPTTENLYPEGAMVNKNKEGLNIDGKEVLAGSTNYYELTWDLDQYKGDKSSKE
AIQNGFYYVDDYPEEALDVRPDLVKVADEKGNQVSGVSVQQYDSLEAAPKKVQDLLKKANITVKGAF
QLFSADNPEEFYKQYVATGTSLVITDPMTVKSEFGKTGGKYENKAYQIDFGNGYATEVVVNNVPKITP
KKDVTVSLDPTSENLDGQTVQLYQTFNYRLIGGLIPQNHSEELEDYSFVDDYDQAGDQYTGNYKTFS
SLNLTMKDGSVIKAGTDLTSQTTAETDATNGIVTVRFKEDFLQKISLDSPFQAETYLQMRRIAIGTFE
NTYVNTVNKVAYASNTVRTTT
1111111111111111111111100000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train563

MRICLFLCLCLCMASPALAQVAVFPALSGKTDAQTLVVYSSLDEPLATPMIEGFQKANPDIAVHYEDM
LTGEIYDRIVKETDAGKKTADFAFSSAMDLQVKLSNDGYAQRSDLAMSARWPAWANWRNTAYALTF
EPAVFVYHKPSFTTEKPPATRAEFVDYLERHAKEVHGRIATYDIERSGVGFLFMSRDQEQFGDIWSVI
KAMGAAGVKVYSTSSAILERVSDGRFVLGYNILGSYAADWASRHPDVGIVLPKDYTVVMSRIGLVPEA
AANPELGRRYLEFFMSKEGQTIMARQLQIPAVSPEVAGENTANTMQAIHGAQLRPVPVSPGLMVYL
DQVKRSRLIERWNEALRSQ
11111111111111100000000000001111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000010000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train564
KELKFVTLVFRHGDRSPIDTFPTDPIKESSWPQGFGQLTQLGMEQHYELGEYIRKRYRKFLNESYKH
EQVYIRSTDVDRTLMSAMTNLAALFPPEGVSIWNPILLWQPIPVHTVPLSEDQLLYLPFRNCPRFQE
LESETLKSEEFQKRLHPYKDFIATLGKLSGLHGQDLFGIWSKVYDPLYCESVHNFTLPSWATEDTMT
KLRELSELSLLSLYGIHKQKEKSRLQGGVLVNEILNHMKRATQIPSYKKLIMYSAHDTTVSGLQMALD
VYNGLLPPYASCHLTELYFEKGEYFVEMYYRNETQHEPYPLMLPGCSPSCPLERFAELVGPVIPQDWS
TECMTTNSHQGTEDSTD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111111
>DM_train565
METMKSKANCAQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWKARETYDNI
SEILIATPLQQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFEDLERKYWKNRIYN
SPIYGADISGSLFDENTKQWNLGHLGTIQDLLEKECGVVIEGVNTPYLYFGMWKTTFAWHTEDMDL
YSINYLHLGEPKTWYVVPPEHGQRLERLARELFPGSSRGCGAFLRHKVALISPTVLKENGIPFNRITQ
EAGEFMVTFPYGYHAGFNHGFNCAEAINFATPRWIDYGKMASQCSCGEARVTFSMDAFVRILQPER
YDLWKRGQDRAVVDHMEPRVPA
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111111
>DM_train566
MKRVFVFQDFKSQKFWSIDVRGTDVIVNYGKLGTDGQTQVKNFSSAGEAEKAAGKLIAEKTKKGYV
ETLEEVAKEMKVEAKKYALSYDEAEEGVNLMDKILKDKKLPSLKQITIGCWGYEGEDCSDIADGIVE
NKEKFAHFEGLFWGDIDFEEQEISWIEQVDLSPVLDAMPLLNNLKIKGTNNLSIGKKPRPNLKSLEII
SGGLPDSVVEDILGSDLPNLEKLVLYVGVEDYGFDGDMNVFRPLFSKDRFPNLKWLGIVDAEEQNVV
VEMFLESDILPQLETMDISAGVLTDEGARLLLDHVDKIKHLKFINMKYNYLSDEMKKELQKSLPMKI
DVSDSQEYDDDYSYPMITE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111100000
>DM_train567
GMYEEWKIVKREAPILGNDQLIENIWKMKREDSPYDIISLHKVNLIGGGNDAVLILPGTWSSGEQLV
TISWNGVHYTIPDYRKSIVLYLARNGFNVYTIDYRTHYVPPFLKDRQLSFTANWGWSTWISDIKEVV
SFIKRDSGQERIYLAGESFGGIAALNYSSLYWKNDIKGLILLDGGPTKHGIRPKFYTPEVNSIEEMEAK
GIYVIPSRGGPNNPIWSYALANPDMPSPDPKYKSISDFLMDSLYVTGSANPYDYPYSKKEDMFPILAS
FDPYWPYRLSLERDLKFDYEGILVPTIAFVSERFGIQIFDSKILPSNSEIILLKGYGHLDVYTGENSEKD
VNSVVLKWLSQQR
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train568
MGGSHHHHHHMASSVPIPGIKDISKLKFFYGFKYLWNPTVYNKIFDKLDLTKTYKHPEELKVLDLYP
GVGIQSAIFYNKYCPRQYSLLEKRSSLYKFLNAKFEGSPLQILKRDPYDWSTYSNLIDEERIFVPEVQSS
DHINDKFLTVANVTGEGSEGLIMQWLSCIGNKNWLYRFGKVKMLLWMPSTTARKLLARPGMHSRS
KCSVVREAFTDTKLIAISDANELKGFDSQCIEEWDPILFSAAEIWPTKGKPIALVEMDPIDFDFDVDN
WDYVTRHLMILKRTPLNTVMDSLGHGGQQYFNSRITDKDLLKKCPIDLTNDEFIYLTKLFMEWPFK
PDILMDFVDMYQTEHSG
111111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111111111111
>DM_train569
AGSDEVNRNECKTVVPLHTWVLISNFKLSYNILRRADGTFERDLGEYLDRRVPANARPLEGVSSFDH
IIDQSVGLEVRIYRAAAEGDAEEGAAAVTRPILEFLTDAPAAEPFPVIIFFHGGSFVHSSASSTIYDSLCR
RFVKLSKGVVVSVNYRRAPEHRYPCAYDDGWTALKWVMSQPFMRSGGDAQARVFLSGDSSGGNIA
HHVAVRAADEGVKVCGNILLNAMFGGTERTESERRLDGKYFVTLQDRDWYWKAYLPEDADRDHP
ACNPFGPNGRRLGGLPFAKSLIIVSGLDLTCDRQLAYADALREDGHHVKVVQCENATVGFYLLPNTV
HYHEVMEEISDFLNANLYY
111111111111110000000000000000000000000000000000000000000000000000000000
000000000001111111111111111111111111111000000000000000000000000000000000
000000000000000000000000000000000000000011111100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train572
MLREFSFYDVPPAHVPPVSEPLEIACYSLSRDRELLLDDSKLSYYYPPPLFSDLNTGFPNRFHPPKSD
PDPISIVKDVLMTKGIQMNSSFLTWRGLITKIMCAPLDPRNHWETYLVMDPTSGIIMMEERTRSETS
YANQDRMCYWGYKFEAISTLPEIWDACSRDQIEQRDNQDVVPDEQYCSIVKINIGKSKLILAGEVDCI
WDKKPCSAKESDVHSDDGTIEEDASNAENPNLHYVELKTSKKYPLENYGMRKKLLKYWAQSFLLGI

GRIIIGFRDDNGILIEMKELFTHQIPKMLRPYFKPNDWTPNRLLVVLEHALEWIKQTVKQHPPSTEF
TLSYTGGSKLVLRQII
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111100000
000000000000000000011111111111000000000000000000000000000000000001111
111111111111111100000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train573
MTQIIKIDPLNPEIDKIKIAADVIRNGGTVAFPTETVYGLGANAFDGNACLKIFQAKNRPVDNPLIVHI
ADFNQLFEVAKDIPDKVLEIAQIVWPGPLTFVLKKTERVPKEVTAGLDTVAVRMPAHPIALQLIRESG
VPIAAPSANLATRPSPTKAEDVIVDLNGRVDVIIDGGHTFFGVESTIINVTVEPPVLLRPGPFTIEELK
KLFGEIVIPEFAQGKKEAEIALAPGMKYKHYAPNTRLLLVENRNIFKDVVSLLSKKYKVALLIPKELSK
EFEGLQQIILGSDENLYEVARNLFDSFRELDKLNVDLGIMIGFPERGIGFAIMNRARKASGFSIIKAISD
VYKYVNI
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001000000000000000000000000
011111111111111111110000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train574
MDRRRFLVGLLGLGLARGQGLRVEEVVGGLEVPWALAFLPDGGMLIAERPGRIRLFREGRLSTYAEL
SVYHRGESGLLGLALHPRFPQEPYVYAYRTVAEGGLRNQVVRLRHLGERGVLDRVVLDGIPARPHGL
HSGGRIAFGPDGMLYVTTGEVYERELAQDLASLGGKILRLTPEGEPAPGNPFLGRRGARPEVYSLGHR
NPQGLAWHPKTGELFSSEHGPSGEQGYGHDEVNLIVPGGNYGWPRVVGRGNDPRYRDPLYFWPQG
FPPGNLAFFRGDLYVAGLRGQALLRLVLEGERGRWRVLRVETALSGFGRLREVQVGPDGALYVTTSN
RDGRGQVRPGDDRVLRLL
111111111111111111000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000011111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train575
MTYVQDGNKSELRKAKRQLVTVIDLNKCLGCQTCTVACKNIWTKRPGTEHMRWNNVTTYPGKGYP
RDYERKGGGFLRGEPQPGVLPTLIDSGDDFQFNHKEVFYEGKGQTVHFHPTSKSTGKDPAWGYNW
DEDQGGGKWPNPFFFYLARMCNHCTNPACLAACPTGAIYKREDNGIVLVDQERCKGHRHCVEACP
YKAIYFNPVSQTSEKCILCYPRIEKGIANACNRQCPGRVRAFGYLDDTTSHVHKLVKKWKVALPLHAE
YGTGPNIYYVPPMGARGFGEDGEITDKTRIPLDVLEGLFGPEVKRVLAVLHTERENMRAGRGSELM
DLLISKKWSDRFGGFTNDPLTQS
111111111111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train576

MKIAIINMGNNVINFKTVPSSETIYLFKVISEMGLNVDIISLKNGVYTKSFDEVDVNDYDRLIVVNSSI
NFFGGKPNLAILSAQKFMAKYKSKIYYLFTDIRLPFSQSWPNVKNRPWAYLYTEEELLIKSPIKVISQG
INLDIAKAAHKKVDNVIEFEYFPIEQYKIHMNDFQLSKPTKKTLDVIYGGSFRSGQRESKMVEFLFDT
GLNIEFFGNAREKQFKNPKYPWTKAPVFTGKIPMNMVSEKNSQAIAALIIGDKNYNDNFITLRVWE
TMASDAVMLIDEEFDTKHRIINDARFYVNNRAELIDRVNELKHSDVLRKEMLSIQHDILNKTRAKK
AEWQDAFKKAIDL
00000000000000000000000000000000000000000000000000000000000000001111
11111000000000000000000000000000000011111111111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train577
MGSDKIHHHHHHHMIRAGIIGATGYTGLELVRLLKNHPEAKITYLSSRTYAGKKLEEIFPSTLENSILSE
FDPEKVSKNCDVLFTALPAGASYDLVRELKGVKIIDLGADFRFDDPGVYREWYGKELSGYENIKRVYG
LPELHREEIKNAQVVGNPGCYPTSVILALAPALKHNLVDPETILVDAKSGVSGAGRKEKVDYLFSEVN
ESLRPYNVAKHRHVPEMEQELGKISGKKVNVVFTPHLVPMTRGILSTIYVKTDKSLEEIHEAYLEFYK
NEPFVHVLPMGIYPSTKWCYGSNHVFIGMQMEERTNTLILMSAIDNLVKGASGQAVQNMNIMFGLD
ETKGLEFTPIYP
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train578
MTSPSHASDRGGGDGDSVENQSPELRKDPVTNRWVIFSPARAKRPTDFKSKSPQNPNPKPSSCPFCI
GREQECAPELFRVPDHDPNWKLRVIENLYPALSRNLETQSTQPETGTSRTIVGFGFHDVVIESPVHSI
QLSDIDPVGIGDILIAYKKRINQIAQHDSINYIQVFKNQGASAGASMSHSHSQMMALPVVPPTVSSRL
DGTKDYFEETGKCCLCEAKSKHFVIDESSHFVSVAPFAATYPFEIWIIPKDHSSHFHHLDDVKAVDLG
GLLKLMLQKIAKQLNDPPYNYMIHTSPLKVTESQLPYTHWFLQIVPQLSGVGGFEIGTGCYINPVFPE
DVAKVMREVSLT
11111111111111111111000000000000000000111111000001111111111000000000
00000000000000000000000000000000000011111111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train580
DTSSLIVEDAPDHVRPYVIRHYSHARAVTVDTQLYRFYVTGPSSGYAFTLMGTNAPHSDALGVLPHIH
QKHYENFYCNKGSFQLWAQSGNETQQTRVLSSGDYGSVPRNVTHTFQIQDPDTEMTGVIVPGGFED
LFYYLGTNATDTTHTPYIPSSSDSSSTTGPDSSTISTLQSFDVYAELSFTPRTDTVNGTAPANTVWHT
GANALASTAGDPYFIANGWGPKYLNSQYGYQIVAPFVTATQAQDTNYTLSTISMSTTPSTVTVPTWS
FPGACAFQVQEGRVVVQIGDYAATELGSGDVAFIPGGVEFKYYSEAYFSKVLFVSSGSDGLDQNLVNG
GEEWSSVSFPADW
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000001111111111111110000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>DM_train581
APLVHHHHHHALADNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQAD
HDKDGKGDACDHDDDNDGIPDDKDNCRLVPNPDQKDSDGDGRGDACKDDFDHDSVPDIDDICPE
NVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNSDPGLAVGYDEFNAVDFSGTFFI
NTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVKVVKSTTGPGEHLRNA
LWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVVMYEGKKIMADSGPIYDKTYA
GGRLGLFVFSQEMVFFSDLKYECRDP
111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111100000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>DM_train582
MTYFIDVPTMSDLVHDIGVAPFIGELAAALRDDFKRWQAFDKSARVASHSEVGVIELMPVADKSRYA
FKYVNGHPANTARNLHTVMAFGVLADVDSGYPVLLSELTIATALRTAATSLMAAQALARPNARKMA
LIGNGAQSEFQALAFHKHLGIEEIVAYDTDPLATAKLIANLKEYSGLTIRRASSVAEAVKGVDIITTVTA
DKAYATIITPDMLEPGMHLNAVGGDCPGKTELHADVLRNARVFVEYEPQTRIEGEIQQLPADFPVVD
LWRVLRGETEGRQSDSQVTVFDSVGFALEDYTVLRYVLQQAEKRGMGTKIDLVPWVEDDPKDLFSH
TRGRAGKRRIRRVA
100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111111
>DM_train583
MANVAIIGTEKSGRTSLAANLGKKGTSSDITMYNNDKEGRNMVFVDAHSYPKTLKSLITALNISDIAV
LCIPPQGLDAHTGECIIALDLLGFKHGIIALTRSDSTHMHAIDELKAKLKVITSGTVLQDWECISLNTN
KSAKNPFEGVDELKARINEVAEKIEAENAELNSLPARIFIDHAFNVTGKGCVVLGVVKQGISKDKDKT
KIFPLDRDIEIRSIQSHDVDIDSAPAGTRVGMRLKNVQAKDIERGFIISDKEIVTTDYTLECTVSKFTKK
IEPASVLHLFVGLQSEPVRVEKILVDGNEVEEAKPGSTCVLELSGNKKLAYSKQDRFLLANLDLTQRFA
AYGFSK
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>DM_train584
MAATAAEAVASGSGEPREEAGALGPAWDESQLRSYSFPTRPIPRLSQSDPRAEELIENEEPVVLTDTN
LVYPALKWDLEYLQENIGNGDFSVYSASTHKFLYYDEKKMANFQNFKPRSNREEMKFHEFVEKLQD
IQQRGGEERLYLQQTLNDTVGRKIVMDFLGFNWNWINKQQGKRGWGQLTSNLLLIGMEGNVTPAH
YDEQQNFFAQIKGYKRCILFPPDQFECLYPYPVHHPCDRQSQVDFDNPDYERFPNFQNVVGYETVVG

PGDVLYIPMYWWHHIESLLNGGITITVNFWYKGAPTPKRIEYPLKAHQKVAIMRNIEKMLGEALGN
PQEVGPLLNTMIKGRYN
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001110000000000000000000000000000000000000000000000
>DM_train586
MQNNNEFKIGNRSVGYNHEPLIICEIGINHEGSLKTAFEMVDAAYNAGAEVVKHQTHIVEDEMSDEA
KQVIPGNADVSIYEIMERCALNEEDEIKLKEYVESKGMIFISTLFSRAAALRLQRMDIPAYKIGSGECN
NYPLIKLVASFGKPIILSTGMNSIESIKKSVEIIREAGVPYALLHCTNIYPTPYEDVRLGGMNDLSEAFP
DAIIGLSDHTLDNYACLGAVALGGSILERHFTDRMDRPGPDIVCSMNPDTFKELKQGAHALKLARGG
KKDTIIAGEKPTKDFAFASVVADKDIKKGELLSGDNLWVKRPGNGDFSVNEYETLFGKVAACNIRKG
AQIKKTDIE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train588
VNIKTNPFKAVSFVESAIKKALDNAGYLIAEIKYDGVRGNICVDNTANSYWLSRVSKTIPALEHLNGF
DVRWKRLLNDDRCFYKDGFMLDGELMVKGVDFNTGSGLLRTKWTDTKNQEFHEELFVEPIRKKD
KVPFKLHTGHLHIKLYAILPLHIVESGEDCDVMTLLMQEHVKNMLPLLQEYFPEIEWQAAESYEVYD
MVELQQLYEQKRAEGHEGLIVKDPMCIYKRGKKSGWWKMKPENEADGIIQGLVWGTKGLANEGKV
IGFEVLLESGRLVNATNISRALMDEFTETVKEATLSQWGFFSPYGIGDNDACTINPYDGWACQISYME
ETPDGSLRHPSFVMFR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111110000000000000000000000000000000000000000
>DM_train590
MNGTEGPNFYVPFSNKTGVVRSPFEAPQYYLAEPWQFSMLAAYMFLLIMLGFPINFLTLYVTVQHK
KLRTPLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNLEGFFATLGGEIALWSLVVLAIER
YVVVCKPMSNFRFGENHAIMGVAFTWVMALACAAPPLVGWSRYIPEGMQCSCGIDYYTPHEETNN
ESFVIYMFVVHFIIPLIVIFFCYGQLVFTVKEAAAQQQESATTQKAEKEVTRMVIIMVIAFLICWLPYAG
VAFYIFTHQGSDFGPIFMTIPAFFAKTSAVYNPVIYIMMNKQFRNCMVTTLCCGKNPLGDDEASTTVS
KTETSQVAPA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111000000000000000000000000000000000000000000000000000000000000000
00000000000011111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111111
>DM_train591

SRLQELAVIPILVIACDRSTVRRCLDKLLHYRPSAELFPIIVSQDCGHEETAQVIASYGSAVTHIRQPDLS
NIAVQPDHRKFQGYYKIARHYRWALGQIFHNFNYPAAVVVEDDLEVAPDFFEYFQATYPLLKADPSL
WCVSAWNDNGKEQMVDSSKPELLYRTDFFPGLGWLLLAELWAELEPKWPKAFWDDWMRRPEQ
RKGRACVRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVPFTQLDLSYLQQEAYDRDFLARVYG
APQLQVEKVRTNDRKELGEVRVQYTGRDSFKAFAKALGVMDDLKSGVPRAGYRGIVTFLFRGRRVH
LAPPQTWDGYDPSWT
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train592
MTGREILEKLERREFTREVLKEALSINDRGFNEALFKLADEIRRKYVGDEVHIRAIIEFSNVCRKNCLY
CGLRRDNKNLKRYRMTPEEIVERARLAVQFGAKTIVLQSGEDPYYMPDVISDIVKEIKKMGVAVTLS
LGEWPREYYEKWKEAGADRYLLRHETANPVLHRKLRPDTSFENRLNCLLTLKELGYETGAGSMVG
LPGQTIDDLVDDLLFLKEHDFDMVGIGPFIPHPDTPLANEKKGDFTLTLKMVALTRILLPDSNIPATT
AMGTIVPGGREITLRCGANVIMPNWTPSPYRQLYQLYPGKICVFEKDTACIPCVMKMIELLGRKPGR
DWGGRKRVFETV
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001
>DM_train594
MPKFDVSKSDLERLIGRSFSIEEWEDLVLYAKCELDDVWEENGKVYFKLDSKDTNRPDLWSAEGVA
RQIKWALGIEKGLPKYEVKKSNVTVYVDEKLKDIRPYGVYAIVEGLRLDEDSLSQMIQLQEKIALTFG
RRRREVAIGIFDFDKIKPPIYYKAAEKTEKFAPLGYKEEMTLEEILEKHEKGREYGHLIKDKQFYPLLI
DSEGNVLSMPPIINSEFTGRVTTDTKNVFIDVTGWKLEKVMLALNVMVTALAERGGKIRSVRVVYK
DFEIETPDLTPKEFEVELDYIRKLSGLELNDGEIKELLEKMMYEVEISRGRAKLKYPAFRDDIMHARD
ILEDVLIAYGY
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train595
MKERLEKLVKFMDENSIDRVFIAKPVNVYYFSGTSPLGGGYIIVDGDEATLYVPELEYEMAKEESKLP
VVKFKKFDEIYEILKNTETLGIEGTLSYSMVENFKEKSNVKEFKKIDDVIKDLRIIKTKEEIEIIEKACEI
ADKAVMAAIEEITEGKREREVAAKVEYLMKMNGAEKPAFDTIIASGHRSALPHGVASDKRIERGDLV
VIDLGALYNHYNSDITRTIVVGSPNEKQREIYEIVLEAQKRAVEAAKPGMTAKELDSIAREIIKEYGYG
DYFIHSLGHGVGLEIHEWPRISQYDETVLKEGMVITIEPGIYIPKLGGVRIEDTVLITENGAKRLTKTE
RELL
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011111111111111111000000000000000000000000000000000100000000
000000000000110000000000000000011110000000000000000000000000111
>DM_train596
MVKRMIALDGAQGEGGGQILRSALSLSMITGQPFTITSIRAGRAKPGLLRQHLTAVKAATEICGATVE
GAELGSQRLLFRPGTVRGGDYRFAIGSAGSCTLVLQTVLPALWFADGPSRVEVSGGTDNPSAPPADFI
RRVLEPLLAKIGIHQQTTLLRHGFYPAGGGVVATEVSPVASFNTLQLGERGNIVQMRGEVLLAGVPRH
VAEREIATLAGSFSLHEQNIHNLPRDQGPGNTVSLEVESENITERFFVVGEKRVSAEVVAAQLVKEVK
RYLASTAAVGEYLADQLVLPMALAGAGEFTVAHPSCHLLTNIAVVERFLPVRFSLIETDGVTRVSIEGS
HHHHHH
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000111111111
>DM_train597
MRVVVIGAGVIGLSTALCIHERYHSVLQPLDVKVYADRFTPFTTTDVAAGLWQPYTSEPSNPQEANW
NQQTFNYLLSHIGSPNAANMGLTPVSGYNLFREAVPDPYWKDMVLGFRKLTPRELDMFPDYRYGW
FNTSLILEGRKYLQWLTERLTERGVKFFLRKVESFEEVARGGADVIINCTGVWAGVLQPDPLLQPGRG
QIIKVDAPWLKNFIITHDLERGIYNSPYIIPGLQAVTLGGTFQVGNWNEINNIQDHNTIWEGCCRLEP
TLKDAKIVGEYTGFRPVRPQVRLEREQLRFGSSNTEVIHNYGHGGYGLTIHWGCALEVAKLFGKVLE
ERNLLTMPPSHL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111111
>DM_train598
MLMREVTKEERSEFYSKEWSAKKIPKFIVDTLESREFGFDHNGEGPSDRKNQYSDIRDLEDYIRATS
PYAVYSSVAFYENPREMEGWRGAELVFDIDAKDLPLKRCNHEPGTVCPICLEDAKELAKDTLIILREE
LGFENIHVVYSGRGYHIRILDEWALQLDSKSRERILAFISASEIENVEEFRRFLLEKRGWFVLKHGYPR
VFRLRLGYFILRVNVPHLLSIGIRRNIAKKILDHKEEIYEGFVRKAILASFPEGVGIESMAKLFALSTRFS
KAYFDGRVTVDIKRILRLPSTLHSKVGLIATYVGTKEREVMKFNPFRHAVPKFRKKEVREAYKLWRE
SLEYE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train600
PQFMAAIYGGVEGGGTRSEVLLVSEDGKILAEADGLSTNHWLIGTDKCVERINEMVNRAKRKAGVD
PLVPLRSLGLSLSGGDQEDAGRILIEELRDRFPYLSESYLITTDAAGSIATATPDGGVVLISGTGSNCRLI
NPDGSESGCGGWGHMMGDEGSAYWIAHQAVKIVFDSIDNLEAAPHDIGYVKQAMFHYFQVPDRLGI
LTHLYRDFDKCRFAGFCRKIAEGAQQGDPLSRYIFRKAGEMLGRHIVAVLPEIDPVLFQGKIGLPILCV

GSVWKSWELLKEGFLLALTQGREIQAQNFFSSFTLMKLRHSSALGGASLGARHIGHLLPMDYSANAI
AFYSYTFS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111000000000000000000000000000000000000000
>DM_train601
MASLSRFRGCLAGALLGDCVGSFYEAHDTVDLTSVLRHVQSLEPDPGTPGSERTEALYYTDDTAMAR
ALVQSLLAKEAFDEVDMAHRFAQEYKKDPDRGYGAGVVTVFKKLLNPKCRDVFEPARAQFNGKGSY
GNGGAMRVAGISLAYSSVQDVQKFARLSAQLTHASSLGYNGAILQALAVHLALQGESSSEHFLKQLLG
HMEDLEGDAQSVLDARELGMEERPYSSRLKKIGELLDQASVTREEVVSELGNGIAAFESVPTAIYCFL
RCMEPDPEIPSAFNSLQRTLIYSISLGGDTDTIATMAGAIAGAYYGMDQVPESWQQSCEGYEETDILA
QSLHRVFQKS
00000000000000000000000000000000000000000000111111110000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train602
MSSIEWNEKTFAKFAYLSDPRTKGELVAYVLTKANLKDNKYENTIVIENLKNNARRFIENATMPRISP
DGKKIAFMRANEEKKVSEIWVADLETLSSKKILEAKNIRSLEWNEDSRKLLIVGFKRREDEDFIFED
DVPAWFDDLGFFDGEKTTFWIFDTESEEVIEEFEKPRFSSGIWHRDKIVVNVPHREIIPQYFKFWDI
YIWEDGKEEKMFEKVSFYAVDSDGERILLYGKPEKKYMSEHNKLYIYDGKEVMGILDEVDRGVGQAK
IKDGKVYFTLFEEGSVNLYIWDGEIKPIAKGRHWIMGFDVDEIVVYLKETATRLRELFTWDGEEKQL
TDYNDPIFAKL
11111111111100000000000000000000011100000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111111111111
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111
>DM_train604
CSALIKLLPGGHDLLVAHNTWNSYQNMLRIIKKYRLQFREGPQEEYPLVAGNNLVFSSYPGTIFSGDD
FYILGSGLVTLETTIGNKNPALWKYVQPQGCVLEWIRNVVANRLALDGATWADVFKRFNSGTYNNQ
WMIVDYKAFLPNGPSPGSRVLTILEQIPGMVVVADKTAELYKTTYWASYNIPYFETVFNASGLQALVA
QYGDWFSYTKNPRAKIFQRDQSLVEDMDAMVRLMRYNDFLHDPLSLCEACNPKPNAENAISARSD
LNPANGSYPFQALHQRAHGGIDVKVTSFTLAKYMSMLAASGPTWDQCPPFQWSKSPFHSMLHMG
QPDLWMFSPIRVPWD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011
>DM_train605

MTVSPVPSPKGRVLIAGATGFIGQFVATASLDAHRPTYILARPGPRSPSKAKIFKALEDKGAIIVYGLIN
EQEAMEKILKEHEIDIVVSTVGGESILDQIALVKAMKAVGTIKRFLPSEFGHDVNRADPVEPGLNMYR
EKRRVRQLVEESGIPFTYICCNSIASWPYYNNIHPSEVLPPTDFFQIYGDGNVKAYFVAGTDIGKFTMK
TVDDVRTLNKSVHFRPSCNCLNINELASVWEKKIGRTLPRVTVTEDDLLAAAGENIIPQSVVAAFTH
DIFIKGCQVNFSIDGPEDVEVTTLYPEDSFRTVEECFGEYIVKMEEKQPTADSAIANTGPVVGMRQVT
ATCA
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111111111111111111
>DM_train606
MSNVYVMALDFGNGFVKGKINDEKFVIPSRIGRKTNENNQLKGFVDNKLDVSEFIINGNNDEVLLFG
NDLDKTTNTGKDTASTNDRYDIKSFKDLVECSIGLLAREVPEEVVNVVIATGMPSNEIGTDKQAKFE
KLLNKSRLIEIDGIAKTINVKGVKIVAQPMGTLLDLNMENGKVFKAFTEGKYSVLDFGSGTTIIDTYQ
NMKRVEEESFVINKGTIDFYKRIASHVSKKSEGASITPRMIEKGLEYKQCKLNQKTVIDFKDEFYKEQ
DSLIEEVMSNFEITVGNINSIDRIIVTGGGANIHFDSLSHYYSDVFEKADDSQFSNVRGYEKLGELLKN
KVEQESK
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111100000000011111111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>DM_train607
MGSDKIHHHHHHKDLLGREVEIPSNVNRIVAVGPGALRLIAYLKATDMVVGVEDFEKLRPYGRPYIL
AYPELKKLPSVGPGGPGKLPDLESLITLQPDVVFITYVDRKTAKDIQEKTGIPVVVLSYGNLGTFEDED
LFRSIELAGKILGREERAHEVVDFIRKAQEDLVTRSEGVESPTVYVGGIGYKGAHGIDSTEAKYPPFVV
LHARNVVDELGEGHKFIDPEKLLVWNPEYIFIDENGLSLVLDDYSKHREFYESLSAVKRGKVYGILPY
NYYTTNIGTALADAYFIGKVLYPERFTDIDPEEKADEIYEFLLGKRVYGEMAEQFGGFGKIDLPSGRIL
RGTW
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train608
MPSRTELLAEEYLRREGHDPQKFRYVHPDGTPYTDADGLARIARLAVPPAYQDVYVSPDAENELQA
FGRDAAGRLQYRYHPDFVQAGALKKWQRLTRFAGALPTLKVATTADLRASGLPPRKVMALMTRLL
HVARFRVGSDIYARQHKTYGLSTLRQRHVVVDGNTVTFRFKGKHGVSQHKATSDRTLAANMQKLLD
LPGPWLFQTVDAGGGERRRIHSTELNAYLREVIGPFTAKDFRTWGGTLLAAEYLAQQGTESSERQAK
KVLVDCVKFVADDLGNTPAVTRGSYICPVIFDRYLDGKVLDDYEPRTERQEAELEGLTRSEGALKRM
LESERTLRQRGRALK
10000000000000001110000011111111111110000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111

1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000111111111
>DM_train610
VTDKTSLSYKDAGVDIDAGNALVGRIKGVVKKTRRPEVMGGLGGFGALCALPQKYREPVLVSGTDGV
GTKLRLAMDLKRHDTIGIDLVAMCVNDLVVQGAEPLFFLDYYATGKLDVDTASAVISGIAEGCLQSGC
SLVGGETAEMPGMYHGEDYDVAGFCVGVVEKSEIIDGSKVSDGDVLIALGSSGPHSNGYSLVRKILEVS
GCDPQTTELDGKPLADHLLAPTRIYVKSVLELIEKVDVHAIAHLTGGGFWENIPRVLPDNTQAVIDES
SWQWPEVFNWLQTAGNVEHHEMYRTFNCGVGMIIALPAPEVDKALALLNANGENAWKIGIIKASD
SEQRVVIE
1111111111111111111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train611
MTFNPSKKLYISDVTLRDGSHAIRHQYTLDDVRAIARALDKAKVDSIEVAHGDGLQGSSFNYGFGRH
TDLEYIEAVAGEISHAQIATLLLPGIGSVHDLKNAYQAGARVVRVATHCTEADVSKQHIEYARNLGMD
TVGFLMMSHMIPAEKLAEQGKLMESYGATCIYMADSGGAMSMNDIRDRMRAFKAVLKPETQVGM
HAHHNLSLGVANSIVAVEEGCDRVDASLAGMGAGAGNAPLEVFIAVAERLGWNHGTDLYTLMDAAD
DIVRPLQDRPVRVDRETLGLGYAGVYSSFLRHAEIAAAKYNLKTLDILVELGHRRMVGGQEDMIVDV
ALDLLAAHKENRA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000111111
>DM_train613
MPARALLPRRMGHRTLASTPALWASIPCPRSELRLDLVLPSGQSFRWREQSPAHWSGVLADQVWTL
TQTEEQLHCTVYRGDKSQASRPTPDELEAVRKYFQLDVTLAQLYHHWGSVDSHFQEVAQKFQGVRL
LRQDPIECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVTYHGFPSLQALAGPEVEAHLRKLGL
GYRARYVSASARAILEEQGGLAWLQQLRESSYEEAHKALCILPGVGTKVADCICLMALDKPQAVPVD
VHMWHIAQRDYSWHPTTSQAKGPSPQTNKELGNFFRSLWGPYAGWAQAVLFSADLRQSRHAQEPP
AKRRKGSKGPEG
1111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111111111111111111111
>DM_train614
MSLRSIFWDDGLKLIDQTKLPEKLEVIECRNVEELADAIKKLAVRGAPALEAAGAYGIALAAREREFA
DVDELKEHLKKAADFLASTRPTAVNLFVGIERALNAALKGESVEEVKELALREAEKLAEEDVERNRK
MGEYGAELLEDGDVVLTYCNAGRLATVDWGTALGVVRSAVEQGKEIRVIACETRPLNQGSRLTCWEL
MEDGIDVTLITDSMVGIVMQKGMVDKVIVGADRIVRDAVFNKIGTYTVSVVAKHHNIPFYVAAPKAT

FDWERTAKDVVIEERPREELIFCGKRQIAPLNVKVYNPAFDPTPLENVTALITEYGVIYPPYEVNVPK
VLKFEGGS
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train617
MIIDIHGHYTTAPKALEDWRNRQIAGIKDPSVMPKVSELKISDDELQASIIENQLKKMQERGSDLTVF
SPRASFMAHHIGDFNVSSTWAAICNELCYRVSQLFPDNFIGAAMLPQSPGVDPKTCIPELEKCVKEYG
FVAINLNPDPSGGHWTSPPLTDRIWYPIYEKMVELEIPAMIHVSTSCNTCFHTTGAHYLNADTTAFM
QCVAGDLFKDFPELKFVIPHGGGAVPYHWGRFRGLAQEMKKPLLEDHVLNNIFFDTCVYHQPGIDL
LNTVIPVDNVLFASEMIGAVRGIDPRTGFYYDDTKRYIEASTILTPEEKQQIYEGNARRVYPRLDAALK
AKGKLE
0000000000000000000000000000000000000000000000000000000000000000000000000
0011111000000000000000000000000000000000000000000000000000000000000000000
0000011110000000000000000000000000001111111111000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train618
MFKYVIPLCALTLAAPSFAAQTTLMLSQKSDVNYLGWSTDESKVARQEVYRGTTSNPDLRERIAVLD
AETRTFKDADTNSGLNYWYWVDVVSENQAQVVSNAVTTAPNAGPLRAAKASSECKPGATFENRTV
DCGGVTIGTSCPNDSDKQKPLIILKNATVKNLRISASGGADGIHCDSGNCTIENVIWEDICEDAATNN
GKTMTIVGGIAHNAKDGYGGKPDKVLQHNSKNSTTVVKGNFTLTGEHGKLWRSCGDCSNNGGPRFL
TVTSATVNGTIDSIAGVNRNYGDVATISGLKIKNYKEGKPPVCEEFKGVVKGQGSTEKYGEKWDTTN
CKVSRSGVSKL
1111111111111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111111111000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train619
MVSFKAGINLGGWISQYQVFSKEHFDTFITEKDIETIAEAGFDHVRLPFDYPIIESDDNVGEYKEDGLS
YIDRCLEWCKKYNLGLVLDMHHAPGYRFQDFKTSTLFEDPNQQKRFVDIWRFLAKRYINEREHIAF
ELLNEVVEPDSTRWNKLMLECIKAIREIDSTMWLYIGGNNYNSPDELKNLADIDDDYIVYNFHFYNP
FFFTHQKAHWSESAMAYNRTVKYPGQYEGIEEFVKNNPKYSFMMELNNLKLNKELLRKDLKPAIEF
REKKKCKLYCGEFGVIAIADLESRIKWHEDYISLLEEYDIGGAVWNYKKMDFEIYNEDRKPVSQELVN
ILARRKT
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000011111111000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train620

MSASHADQPTQTVSYPQLIDLLRRIFVVHGTSPEVADVLAENCASAQRDGSHSHGIFRIPGYLSSLAS
GWVDGKAVPVVEDVGAAFVRVDACNGFAQPALAAARSLLIDKARSAGVAILAIRGSHHFAALWPDVE
PFAEQGLVALSMVNSMTCVVPHGARQPLFGTNPIAFGAPRAGGEPIVFDLATSAIAHGDVQIAAREG
RLLPAGMGVDRDGLPTQEPRAILDGGALLPFGGHKGSALSMMVELLAAGLTGGNFSFEFDWSKHPG
AQTPWTGQLLIVIDPDKGAGQHFAQRSEELVRQLHGVGQERLPGDRRYLERARSMAHGIVIAQADLE
RLQELAGH
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>DM_train621
MSLKQTVYIASPESQQIHVWNLNHEGALTLTQVVDVPGQVQPMVVSPDKRYLYVGVRPEFRVLAYRI
APDDGALTFAAESALPGSLTHISTDHQGQFVFVGSYNAGNVSVTRLEDGLPVGVVDVVEGLDGCHSA
NISPDNRTLWVPALKQDRICLFTVSDDGHLVAQDPAEVTTVEGAGPRHMVFHPNEQYAYCVNELNS
SVDVWELKDPHGNIECVQTLDMMPENFSDTRWAADIHITPDGRHLYACDRTASLITVFSVSEDGSVL
SKEGFQPTETQPRGFNVDHSGKYLIAAGQKSHHISVYEIVGEQGLLHEKGRYAVGQGPMWVVVNAH
EGGSHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111111
>DM_train622
GMENLGDRLEVVAELSLAPGNITLTPDGRLFLSLHQFYQPEMQVAELTQDGLIPFPPQSGNAIITFDT
VLGIKSDGNGIVWMLDNGNQSKSVPKLVAWDTLNNQLSRVIYLPPPITLSNSFVNDLAVDLIHNFVYI
SDPAPDDKAALIRVDLQTGLAARVLQGYPGIAPEDIDLVIDGVPVQIGQPDGTVIRPHLGVNGIVLDAE
NEWLYLSPMHSTSMYRIKSADLSNLQLTDAELGSKIERYSEKPICDGISIDKDHNIYVGDLAHSAIGVI
TSADRAYKLLVTDEKLSWTDSFNFGSDGYLYFDCNQLHHSAPLNAGENISAPPYYIFRLKPLAAGIVG
R
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train623
MSGSHHHHHHSSGIEGRGRLQTRQDVLYLYNWTYYTPTSLIKKFEQQYNVQVVYDDYASNEDMFAK
LSIGASGYDLVVPSGDFVSIMKRKHLLEKIDLSKIPNVQFIKESVRARIAYDPKMEYSVPYYLGAAGIAV
NKKAVPSYARTWSIFSRKDLAYRMSMMDDMREVMGAALASLGYNVNTKNEQELAQAAILVTDHW
KPNLVKFDSDGYAKSFASGDFVVAHGFAEAFFAETPEAMHEHIDFFIPQDVASPVYVDSFCIPKGARN
RDLAHAFINFFLEPAHYAEFLDTFGFPSTIHREAAAYQKKTPYYSEHDLERGTLKTDVGAAIEHYNA
HWNAVRFR
11111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train624
GMNSDIIVADFWKNNEEILTDFDKDSFCESWTENEMWSIEFKVAQTPKNAHCYSFLDYESSVYFRG
QEFVVKQLSHDAVGKTLSKDIRAPHIYYTCQDGRQDDAITGSFTLEQCLTHIFKTDNRGFSWEIIDPS
NILEKVQQENFGNNNYLTLIDQLLDDYGVVVIPDNRHLVFKPREIYGAKTENFIRYKYNTDEASFDID
TLSLKTKIKGYGKVDSNGNNYFSPITYTSPEVEKWGIRWQEPVSDERYTVAGNMQRRLKLELQDYPA
TTGSVILKNDYECEKGDYVLFIYEPLGIDYDVQIVAYKKYPFTIKAPEITLSNNKKSIVSIMAQLAKVLK
GAK
111000000000000000000000000000000000000000001111100000000000000000000
000000011100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000001110000
000000000000000000000000000000000000000000000000000011
>DM_train625
GHMLVMRPAQAADLPQVQRLAADSPVGVTSLPDDAERLRDKILASEASFAAEVSYNGEESYFFVLED
SASGELVGCSAIVASAGFSEPFYSFRNETFVHASRSLSIHNKIHVLSLCHDLTGNSLLTSFYVQRDLVQS
VYAELNSRGRLLFMASHPERFADAVVVEIVGYSDEQGESPFWNAVGRNFFDLNYIEAEKLSGLKSRT
FLAELMPHYPIYVPLLPDAAQESMGQVHPRAQITFDILMREGFETDNYIDIFDGGPTLHARTSGIRSI
AQSRVVPVKIGEAPKSGRPYLVTNGQLQDFRAVVLDLDWAPGKPVALSVEAAEALGVGEGASVRLVA
VGS
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111111100
000000000000000000000000000000000000000000000000000000000000000000000000
110000000000000000000000000000000000000000000000000000
>DM_train626
MKERRYLPLSQARKSGFQMDWLSEPHPVKPTFIGTQVFEEYDLQKLVDYIDWKPFFDVWQLRGKY
PNRGFPKIFNDKTVGGEARKVYDDAHNMLNTLISQKKLRARGVVGFWPAQSIQDDIHLYAEAAVPQ
AAEPIATFYGLRQQAENDSASTEPYYCLSDFIAPLHSGIRDYLGLFAVACFGVEELSKAYEDDGDDYSSI
MVKALGDRLAEAFAEELHERVRRELWAYCGSEQLDVADLRRLRYKGIRPAPGYPSQPDHTEKLTMW
RLADIEQSTGIRLTESLAMAPASAVSGLYFSNLKSKYFAVGKISKDQVEDYALRKNISVAEVEKWLGPIL
GYDTD
110000000000000000000000000000000000000000000000000000000000000000000000
000000111000000000000000000000000000000000000000000000000000000000000000
000000111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011
>DM_train627
GLMEPPGPSTPIVQRPRILLVIDDAHTDWSKYFHGKKVNGEIEIRVEQAEFSELNLAAYVTGGCMVD
MQVVRNGTKVVSRSFKPDFILVRQHAYSMALGEDYRSLVIGLQYGGLPAVNSLYSVYNFCSKPWVFSQ
LIKIFHSLGPEKFPLVEQTFFPNHKPMVTAPHFPVVVKLGHAHAGMGKIKVENQLDFQDITSVVAMA
KTYATTEAFIDSKYDIRIQKIGSNYKAYMRTSISGNWKANTGSAMLEQVAMTERYRLWVDSCSEMFG

GLDICAVKAVHSKDGRDYIIEVMDSSMPLIGEHVEEDRQLMADLVVSKMSQLPMPGGTAPSPLRPW
APQIKSA
11111111111111000000000000000000000000000000000000000000000000000011
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111111111111
>DM_train628
LTCGTNSGFVCKGTQTQYAGGFAPGVGYGGFGGGSCTATKTPVIFIHGNGDNAISFDMPPGNVSGYGT
PARSVYAELKARGYNDCEIFGVTYLSSSEQGSAQYNYHSSTKYAIIKTFIDKVKAYTGKSQVDIVAHSM
GVSMSLATLQYYNNWTSVRKFINLAGGIRGLYSCYYTGYANAAAPTCGSQNYYNSYTFGFFPEGWYY
GVWVSNPWTGSGSTNSMRDMPAKRTAVSFYTLSAGFKDQVGCATASFWAGCDSAAKFASTTSNVK
AQINVGAGSNATQADYDWADGMPYNAGGGDTTNGVGHFRTKTNTGAIIQRMLLTTCTGLDCAAEY
TTGPKAAY
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000110000000000000000000000000000000000000000
>DM_train629
PFKESQARGLLQDNMANSYNGGDFEDGLLNLSKEVFPTDKYLYQDGQFLDKKTINAYLNPKYTKRE
IDKMSEKDKKDKKANENLGLNPSHEGETNPEKIAEKSPAYLSNILEQDFYGGGDTKGKNIKGMTIGL
AMNSVYYYKKEKDGPTFSKKLDDSEVKKQGKQMASEILSRLRENDDLKDIPIHFAIYKQSSEDSITPG
EFITQATAEKSQTKLNEWHNINEKSALLPSSTAADYDENLNNNFKQFNDNLQSYFSNFTQAVGKVKF
VDKKPQRLVVDLPIDYYGQAETIGITQYVTEQANKYFDKIDNYEIRIKDGNQPRALISKTKDDKEPQV
HIYSN
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00010000000000000000000000000000000000001111111000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train630
MPTLTARSVIPPYMLRRIIEHGSLPQRDCALHTLNHVQSLLGNKPLRAPGAKTSTGGEVIRDIYDAEN
STQLPGKQVRNEGQASNHDVAVDEAYDYLGVTYDFFWQAFKRNSLDNQGLPLTGSVHYGKEYQNAF
WNGQQMVFGDGDGEIFNRFTIAIDVVGHALAHGVTESEAGLIYFQQAGALNESLSDVFGSLVKQFHL
KQTADKADWLIGEGLLAKGINGKGLRSMSAPGTAYDDPLLGKDPQPASMKDYIQTKEDNGGVHLNS
GIPNRAFYLAATALGGYAWEKAGYIWYDTLCDKALPQDADFATFARTTVKHAEQRFDSKVAQKVQQ
AWHQVGVA
11111000000000000000000000000000000011111111111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train631

MDRNSLSNSLKTCYKYLNQTSRSFAAVIQALDGEMRNAVCIFYLVLRALDTLEDDMTISVEKKVPLL
HNFHSFLYQPDWRFMESKEKDRQVLEDFPTISLEFRNLAEKYQTVIADICRRMGIGMAEFLDKHVT
SEQEWDKYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTERANSMGLFLQKTNIIRDYLEDQQGGREF
WPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRLRNQSVFNFCAIPQVMAI
ATLAACYNNQQVFKGAVKIRKGQAVTLMMDATNMPAVKAIIYQYMEEIYHRIPDSDPSSSKTRQIIST
IRTQN
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111111111110000000000000000000000000000000000000
>DM_train632
GMHPNIATLLSANLGESRTRHLLSLVSVPDGLPSDAEGRATRAEIAQALNMVLFAGILDRVPTGRAYT
DDVAATGGKVVFDHGALRTVKWRDNGALPEGEAAFTRILRPLGYRLNGNYPLDRISMTGRSYAHAD
APEGIAQFFVSEFHPERFSDAFREAVGRVTGNSADPLTPRAQTLLWQLDRDGVLTVADGAELIGLLVP
CFERQHGVPRLADYETLLRESAEMAWIATEGNAFNHATDRVDDVFGLSEQQKALGRPMKDKVEVS
GSGRVKQTAFRADTVRRQFIGAQGETVERDVPGSFYEFITRDRFADAPAASPRVDLGFDAGNAQGIF
KMTAAV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111100000000111111111111
>DM_train633
NTATEFDGPYVITPISGQSTAYWICDNRLKTTSIEKLQVNRPEHCGDLPETKLSSEIKQIMPDTYLGIK
KVVALSDVHGQYDVLLTLLKKQKIIDSDGNWAFGEGHMVMTGDIFDRGHQVNEVLWFMYQLDQQA
RDAGGMVHLLMGNHEQMVLGGDLRYVHQRYDIATTLINRPYNKLYSADTEIGQWLRSKNTIIKIND
VLYMHGGISSEWISRELTLDKANALYRANVDASKKSLKADDLLNFLFFGNGPTWYRGYFSETFTEAE
LDTILQHFNVNHIVVGHTSQERVLGLFHNKVIAVDSSIKVGKSGELLLLENNRLIRGLYDGTRETLQE
NSLNQ
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train634
AEIYNKDGNKVDLYGKAVGLHYFSKGNGENSYGGNGDMTYARLGFKGETQINSDLTGYGQWEYNFQ
GNNSEGADAQTGNKTRLAFAGLKYADVGSFDYGRNYGVVYDALGYTDMLPEFGGDTAYSDDFFVGR
VGGVATYRNSNFFGLVDGLNFAVQYLGKNERDTARRSNGDGVGGSISYEYEGFGIVGAYGAADRTNLQ
EAQPLGNGKKAEQWATGLKYDANNIYLAANYGETRNATPITNKFTNTSGFANKTQDVLLVAQYQFD
FGLRPSIAYTKSKAKDVEGIGDVDLVNYFEVGATYYFNKNMSTYVDYIINQIDSDNKLGVGSDDTVAV
GIVYQF
00000000000000000000000001000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train635
MRGSPHHHHHHGSAKNVVLDHAGNLDDFVAMVLLASNTEKVRLIGALCTDADCFVENGFNVTGKI
MCLMHNNMNLPLFPIGKSAATAVNPFPKEWRCLAKNMDDMPILNIPENVELWDKIKAENEKYEG
QQLLADLVMNSEEKVTICVTGPLSNVAWCIDKYGEKFTSKVEECVIMGGAVDVRGNVFLPSTDGTAE
WNIYWDPASAKTVFGCPGLRRIMFSLDSTNTVPVRSPYVQRFGEQTNFLLSILVGTMWAMCTHCEL
LRDGDGYYAWDALTAAYVVDQKVANVDPVPIDVVVDKQPNEGATVRTDAENYPLTFVARNPEAEFF
LDMLLRSARAC
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111100000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train636
MVSVARELTVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYMVYMFKYDSTHGRYKGSVEFRN
GQLVVDNHEISVYQCKEPKQIPWRAVGSPYVVESTGVYLSIQAASDHISAGAQRVVISAPSPDAPMFV
MGVNENDYNPGSMNIVSNASCTTNCLAPLAKVIHERFGIVEGLMTTVHSYTATQKTVDGPSRKAWR
DGRGAHQNIIPASTGAAKAVTKVIPELKGKLTGMAFRVPTPDVSVVDLTCRLAQPAPYSAIKEAVKAA
AKGPMAGILAYTEDEVVSTDFLGDTHSSIFDAKAGIALNDNFVKLISWYDNEYGYSHRVVDLLRYMF
SRD
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train637
PFTYSIEATRNLATTERCIQDIRNAPVRNRSTQFQLAQQNMLAYTFGEVIPGFASAGINGMDYRDVIG
RPVENAVTEGTHFFRDDFRVDSNAKAKVAGDIFEIVSSAVMWNCAARWNSLMVGEGWRSQPRYSR
PTLSPSPRRQVAVLNLPRSFDWVSLLVPESQEVIEEFRAGLRKDGLGLPTSTPDLAVVVLPEEFQNDE
MWREEIAGLTRPNQILLSGAYQRLQGRVQPGEISLAVAFKRSLRSDRLYQPLYEANVMQLLLEGKLGA
PKVEFEVHTLAPEGTNAFVTYEAASLYGLAEGRSAVHRAIRELYVPPTAADLARRFFAFLNERMELV
NG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011110000000000000000000000000000000000
>DM_train638
MKLATLKDSTRDGKLVVVSKDLTRCSEVGHIARTLQAALDDWAHAGPRLERVAEGIETGAQPTMRF
HEHDAASPLPRAFQWADGSAYVNHVELVRKARNAEMPASFWTDPLIYQGGSDSFLGPRDPILMAD
DAWGIDMEGEAAVIVDDVPMGATLDEAKAAIRLVMLVNDVSLRGLIPGELAKGFGFYQSKPSSAFSP
VAVTPEELGEAWDGGKLHLPLHVDLNGEPFGRANAGIDMTFDFPQLIVHAARTRPLSAGTIIGSGTV

SNKLEGGPGRPVSEGGAGYSCIAELRMIETIEGGAPKTQFLKFGDVVRIEMKDRTGHSIFGAIEQKVG
KYERG
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train639
MGSDKIHHHHHHHMAFTPFPPRQPTASARLPLTLMTLDDWALATITGADSEKYMQGQVTADVSQM
AEDQHLLAAHCDAKGKMWSNLRLFRDGDGFAWIERRSVREPQLTELKKYAVFSKVTIAPDDERVLL
GVAGFQARAALANLFSELPSKEKQVVKEGATTLLWFEHPAERFLIVTDEATANMLTDKLRGEAELN
NSQQWLALNIEAGFPVIDAANSGQFIPQATNLQALGGISFKKGCYTGQEMVARAKFRGANKRALWL
LAGSASRLPEAGEDLELKMGENWRRTGTVLAAVKLEDGQVVVQVVMNNDMEPDSIFRVRDDANTL
HIEPLPYSLEE
11111111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train640
MGSQSETVCVTGASGFIGSWLVMRLLERGYTVRATVRDPTNVKKVKHLLDLPKAETHLTLWKADL
ADEGSFDEAIKGCTGVFHVATPMDFESKDPENEVIKPTIEGMLGIMKSCAAAKTVRRLVFTSSAGTV
NIQEHQLPVYDESCWSDMEFCRAKKMTAWMYFVSKTLAEQAAWKYAKENNIDFITIIPTLVVGPFI
MSSMPPSLITALSPITGNEAHYSIIRQGQFVHLDDLCNAHIYLFENPKAEGRYICSSHDCIILDLAKML
REKYPEYNIPTEFKGVDENLKSVCFSSKKLTDLGFEFKYSLEDMFTGAVDTCRAKGLLPPSHEKPVD
GKT
11111000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>DM_train641
MVLVIEIIRKHLPRVLKVPATRILLLVLAVIIYGTAGFHFIEGESWTVSLYWTFVTIATVGYGDYSPSTPL
GMYFTVTLIVLGIGTFAVAVERLLEFLINREQMKLMGLIDVAKSRHVVICGWSESTLECLRELRGSEVF
VLAEDENVRKKVLRSGANFVHGDPTRVSDLEKANVRGARAVIVDLESDSETIHCILGIRKIDESVRIIA
EAERYENIEQLRMAGADQVISPFVISGRLMSRSIDDGYEAMFVQDVLAEESTRRMVEVPIPEGSKLEG
VSVLDADIHDVTGVIIIGVGRGDELIIDPPRDYSFRAGDIILGIGKPEEIERLKNYISA
11111111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111111111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train642
PQDVDFHIPLPGRQSPDHARAEAEQLAWPRSLGLIRSDAAAERHLRGGYADLASRFYPHATGADLD

LGVDLMSWFFLFDDLFDGPRGENPEDTKQLTDQVAAALDGPLPDTAPPIAHGFADIWRRTCEGMTP
AWCARSARHWRNYFDGYVDEAESRFWNAPCDSAAQYLAMRRHTIGVQPTVDLAERAGRFEVPHR
VFDSAVMSAMLQIAVDVNLLLLDIASLEKEEARGEQNNMVMILRREHGWSKSRSVSHMQNEVRAR
LEQYLLLESCLPKVGEIYQLDTAEREALERYRTDAVRTVIRGSYDWHRSSGRYDAEFALAAGAQGYLE
ELGSSAH
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011111111000000000000000000000000000000000000000000000000000000
0000000000000000111100001111111100000000000000000000000000000000000000000000
0000000000000000000000001111111111111111111111111111
>DM_train643
RENFPGVSWDSLPDELLLGIFSCLCLPELLKVSGVCKRWYRLASDESLWQTLDLTGKNLHPDVTGRL
LSQGVIAFRCPRSFMDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNLSLEGLRLSDPIVN
TLAKNSNLVRLNLSGCSGFSEFALQTLLSSCSRLDELNLSWCFDFTEKHVQVAVAHVSETITQLNLSG
YRKNLQKSDLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLELGEIP
TLKTLQVFGIVPDGTLQLLKEALPHLQINCSHFTTIARPTIGNKKNQEIWGIKCRLTLQKPSCL
1111110000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011111
>DM_train644
MPVLNLNDPQAVERYEEFMRQSPYGQVTQDLGWAKVKNNWEPVDVYLEDDQGAIIAAMSMLLGD
TPTDKKFAYASKGPVMDVTDVDLLDRLVDEAVKALDGRAYVLRFDPEVAYSDEFNTTLQDHGYVTR
NRNVADAGMHATIQPRLNMVLDLTKFPDAKTTLDLYPSKTKSKIKRPFRDGVEVHSGNSATELDEF
FKTYTTMAERHGITHRPIEYFQRMQAAFDADTMRIFVAEREGKLLSTGIALKYGRKIWYMYAGSMD
GNTYYAPYAVQSEMIQWALDTNTDLYDLGGIESESTDDSLYVFKHVFVKDAPREYIGEIDKVLDPEVY
AELVKD
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train645
MALSMTGGQQMGRGSMSRDPLPFFPPLYLGGPEITTENCEREPIHIPGSIQPHGALLTADGHSGEVL
QMSLNAATFLGQEPTVLRGQTLAALLPEQWPALQAALPPGCPDALQYRATLDWPAAGHLSLTVHRV
GELLILEFEPTEAWDSTGPHALRNAMFALESAPNLRALAEVATQTVRELTGFDRVMLYKFAPDATGE
VIAEARREGLHAFLGHRFPASDIPAQARALYTRHLLRLTADTRAAAVPLDPVLNPQTNAPTPLGGAV
LRATSPMHMQYLRNMGVGSSLSVSVVVGGQLWGLIACHHQTPYVLPPDLRTTLESLGRLLSLQVQV
KEA
1111111111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000
>DM_train646
MGADIGDLFEREEVELEYFSGKKIAVDAFNTLYQFISIIRQPDGTPLKDSQGRITSHLSGILYRVSNMVE
VGIRPVFVFDGEPPEFKKAEIEERKKRRAEAEEMWIAALQAGDKDAKKYAQAAGRVDEYIVDSAKT
LLSYMGIPFVDAPSEGEAQAAYMAAKGDVEYTGSQDYDSLLFGSPRLARNLAITGKRKLPGKNVYVD
VKPEIIILESNLKRLGLTREQLIDIAILVGTDYNEGVKGVGVKKALNYIKTYGDIFRALKALKVNIDHVE
EIRNFFLNPPVTDDYRIEFREPDFEKAIEFLCEEHDFSRERVEKALEKLKALKSTQATLERWF
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111111000000000000
00000000000000000000000000000000000000000000000000001111000000000000
00000000000000000000000000000000000000111111111111
>DM_train648
SMGECSQKGPVPFSHCLPTEKLQRCEKIGEGVFGEVFQTIADHTPVAIKIIAIEGPDLVNGSHQKTFEE
ILPEIIISKELSLLSGEVCNRTEGFIGLNSVHCVQGSYPPLLLKAWDHYNSTKGSANDRPDFFKDDQLF
IVLEFEFGGIDLEQMRTKLSSLATAKSILHQLTASLAVAEASLRFEHRDLHWGNVLLKKTSLKKLHYT
LNGKSSTIPSCGLQVSIIDYTLSRLERDGIVVFCDVSMDEDLFTGDGDYQFDIYRLMKKENNNRWGEY
HPYSNVLWLHYLTDKMLKQMTFKTKCNTPAMKQIKRKIQEFHRTMLNFSSATDLLCQHSLFK
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train649
MAELKLGYKASAEQFAPRELVELAVAAEAHGMDSATVSDHFQPWRHQGGHAPFSLSWMTAVGERT
NRLLLGTSVLTPTFRYNPAVIAQAFATMGCLYPNRVFLGVGTGEALNEIATGYEGAWPEFKERFARLR
ESVGLMRQLWSGDRVDFDGDYYRLKGASIYDVPDGGVPVYIAAGGPAVAKYAGRAGDGFICTSGKGE
ELYTEKLMPAVREGAAAADRSVDGIDKMIEIKISYDPDPELAMNNTRFWAPLSLTAEQKHSIDDPIE
MEKAADALPIEQIAKRWIVASDPDEAVEKVGQYVTWGLNHLVFHAPGHDQRRFLELFQSDLAPRLR
RLG
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>DM_train650
MGSDKIHHHHHHMEMRFFVLGAGSWGTVFAQMLHENGEEVILWARRKEIVDLINVSHTSPYVEES
KITVRATNDLEEIKKEDILVIAIPVQYIREHLLRLPVKPSMVLNLSKGIEIKTGKRVSEIVEEILGCPYAV
LSGPSHAEEVAKKLPTAVTLAGENSKELQKRISTEYFRVYTCEDVVGVEIAGALKNVIAIAAGILDGFG
GWDNAKAALETRGIYEIARFGMFFGADQKTFMGLAGIGDLMVTCNSRYSRNRRFGELIARGFNPLK
LLESSNQVVEGAFTVKAVMKIAKENKIDMPISEEVYRVVYEGKPPLQSMRDLMRRSLKDEFWAS
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111
>DM_train651
GVLAPVVPGKALEFPQDFGAHNDFRIEWWYVTGWLETPTGKPLGFQITFFRTATEIDRDNPSHFAP
DQLIIAHVALSDPAIGKLQHDQKIARAGFDLAYARTGNTDVKLDDWIFVRETDGRYRTRIEAEDFTLT
FILTPSQPLMLQGENGFSRKGPGAPQASYYYSEPHLQVSGIINRQGEDIPVTGTAWLDREWSSEYLDP
NAAGWDWISANLDDGSALMAFQIRGKDDSKIWAYAALRDASGHTRLFTPDQVSFHPIRTWRSART
QAVYPVATRVLTGETEWQITPLMDDQELDSRASAGAVYWEGAVTFTRDGQPAGRGYMELTGYVRPL
SM
1100000000000000000000000000000000000000000000000011111111000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111
>DM_train652
CSSLSIRTTDDKSLFARTMDFTMEPDSKVIIVPRNYGIRLLEKENVVINNSYAFVGMGSTDITSPVLYD
GVNEKGLMGAMLYYATFATYADEPKKGTRGINPVYVISQVLGNCVTVDDVIEKLTSYTLLNEANIILGF
APPLHYTFTDASGESIVIEPDKTGITIHRKTIGVMTASPGYEWHQTNLRAYIGVTPNPPQDIMMGDL
DLTPFGQGAGGLGLPGDFTPSARFLRVAYWKKYTEKAKNETEGVTNLFHILSSVNIPKGVVLTNEGK
TDYTIYTSAMCAQSKNYYFKLYDNSRISAVSLMAENLNSQDLITFEWDRKQDIKQLNQVNVMS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train653
MNDSSVIYRAIVTSKFRTEKMLNFYNSIGSGPDKNTIFITFGRSEPWSSNENEVGFAPPYPTDSVLGV
TDMWTHMMGTVKVLPSMLDAVIPRRDWGDTRYPDPYTFRINDIVVCNSAPYNATESGAGWLVYR
CLDVPDTGMCSIASLTDKDECLKLGGKWTPSARSMTPPEGRGDAEGTIEPGDGYVWEYLFEIPPDVS
INRCTNEYIVVPWPEELKEDPTRWGYEDNLTWQQDDFGLIYRVKANTIRFKAYLDSVYFPEAALPG
NKGFRQISIITNPLEAKAHPNDPNVKAEKDYYDPEDLMRHSGEMIYMENRPPIIMAMDQTEEINILF
TF
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train654
GRRRRSVQWCAVSQPEATKCFQWQRNMRRVRGPPVSCIKRDSPIQCIQAIAENRADAVTLDGGFIYE
AGLAPYKLRPVAAEVYGTERQPRTHYYAVAVVKKGGSFQLNELQGLKSCHTGLRRTAGWNVPIGTLR
PFLNWTGPPEPIEAAVARFFSASCVPGADKGQFPNLCRLCAGTGENKCAFSSQEPYFSYSGAFKCLRD
GAGDVAFIEESTVFEDLSDEAERDEYELLCPDNTRKPVDKFKDCHLARVPSHAVVARSVNGKEDAIW
NLLRQAQEKFGKDKSPKFQLFGSPSGQKDLLFKDSAIGFSRVPPRIDSGLYLGSGYFTAIQNLRK
1111100000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111
>DM_train655
MSEFLTPERTVYDSGVQFLRPKSLDEFIGQENVKKKLSLALEAAKMRGEVLDHVLLAGPPGLKTTL
AHIIASELQTNIHVTSGPVLVKQGDMAAILTSLERGDVLFIDEIHRLNKAVEELLYSAIEDFQIDIMIGK
GPSAKSIRIDIQPFTLVGATTRSGLLSSPLRSRFGIILELDFYTVKELKEIIKRAASLMDVEIEDAAAEMI
AKRSRGTPRIAIRLTKRVRDMLTVVKADRINTDIVLKTMEVLNIDDEGLDEFDRKILKTIIEIYRGGPV
GLNALAASLGVEADTLSEVYEPYLLQAGFLARTPRGRIVTEKAYKHLKYEVPENRLF
11111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111111111
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111
>DM_train656
MVYVSNKYLTMSEMKVNAQYILNYLSSNGWTKQAICGMLGNMQSESTINPGLWQNLDEGNTSLGF
GLVQWTPASNYINWANSQGLPYKNMDSELKRIIWEVNNNAQWINLRDMTFKEYIKSTKTPRELAM
IFLASYERPANPNQPERGDQAEYWYKNLSGGGGGGLQLAQFPMDIINISQGENGSFSHKGTLCIDFVG
KTEKYPYYAPCDCTCVWRGDASAYLAWTSDKEVMCADGSVRYITWVNVHESPLPFDVGKKLKKGD
LMGHTGIGGNVTGDHWHFNVIDGKEYQGWTKKPDSCLAGTELHIYDVFAVNNVEIINGNGYDWKT
SDWQDG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001110000000000
00000000000000000000000000000000000000000000000000
>DM_train657
NHKSKKRIREAKRSARPELKDSLDWTRHNYYESFSLSPAAVADNVERADALQLSVEEFVERYERPYK
PVVLLNAQEGWSAQEKWTLERLKRKYRNQKFKCGEDNDGYSVKMKMKYYIEYMESTRDDSPLYIF
DSSYGEHPKRRKLLEDYKVPKFFTDDLFQYAGEKRRPPYRWFVMGPPRSGTGIHIDPLGTSAWNAL
VQGHKRWCLFPTSTPRELIKVTRDEGGNQQDEAITWFNVIYPRTQLPTWPPEFKPLEILQKPGETV
FVPGGWWHVVLNLDTTIAITQNFASSTNFPVVWHKTVRGRPKLSRKWYRILKQEHPELAVLADSV
DLQES
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001
>DM_train658
MKVKVGVNGYGTIGKRVAYAVTKQDDMELIGITKTKPDFEAYRAKELGIPVYYAASEEFIPRFEKEGFE
VAGTLNDLLEKVDIIVDATPGGIGAKNKPLYEKAGVKAIFQGGEKADVAEVSFVAQANYEAALGKNYV
RVVSCNTTGLVRTLSAIREYADYVYAVMIRRAADPNDTKRGPINAIKPTVEVPSHHGPDVQTVIPINIE
TMAFVVPTTLMHVHSVMVELKKPLTKDDVIDIFENTTRVLLFEKEKGFDSTAQIIEFARDLHREWN

NLYEIAVWKESINIKGNRLFYIQAVHQESDVIPENIDAIRAMFELADKWDSIKKTNKSLGILK
1000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000001
>DM_train659
ALPDQIDVKVKNLTPEDTIYDRTRQVFYQSNLYKGRIEVYNPKTQSHFNVVIDGASSNGDGEQQMSG
LSLLTHDNSKRLFAVMKNAKSFNFADQSSHGASSFHSFNLPLSENSKPVWSVNFEKVQDEFEKKAG
KRPFGVVQSAQDRDGNSYVAFALGMPAIARVSADGKTVSTFAWESGNGGQRPGYSGITFDPHSNKLI
AFGGPRALTAFDVSKPYAWPEPVKINGDFGTLSGTEKIVTVPVGNESVLVGARAPYAISFRSWDNWK
SANIKKTKRSELQNSGFTAVADYYQGSEQGLYAVSAFFDNGAHGGRSDYPLYKLDNSIQNFHHHHHH
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000100
>DM_train660
MKVRIATYASHSALQILKGAKDEGFETIAFGSSKVKPLYTKYFPVADYFIEEKYPEEELLNLNAVVVPT
GSFVAHLGIELVENMKVPYFGNKRVLRWESDRNLERKWLKKAGIRVPEVYEDPDDIEKPVIVKPHG
AKGGKGYFLAKDPEDFWRKAEKFLGIKRKEDLKNIQIQEYVLGVPVYPHYFYSKVREELELMSIDRR
YESNVDAIGRIPAKDQLEFDMDITYTVIGNIPIVLRESLLMDVIEAGERVVKAAEELMGGLWGPFCLE
GVFTPDLEFVVFEISARIVAGTNIFVNGSPYTWLRYDRPVSTGRRIAMEIREAIENDMLEKVLT
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000111110000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train661
ETVLADRFERLVELVTMMGDQGELPIAMALANVVPCSQWDELARVLVTLFDSRHLLYQLLWNMFS
KEVELADSMQTLFRGNSLASKIMTFCFKVYGATYLQKLLDPLLRIVITSSDWQHVSFEVDPTRLEPSE
SLEENQRNLLQMTEKFFHAIISSSSEFPPQLRSVCHCLYQVVSQRFPQNSIGAVGSAMFLRFINPAIVSP
YEAGILDKKPPPIIERGLKLMSKILQSIANHVLFTKEEHMRPFNDFVKSNFDAARRFFLDIASDCPTS
DAVNHSLSFISDGNVLALHRLLWNNQEKIGQYLSSNRDHKAVGRRPFDKMATLLAYLGPPEH
1111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111111111111111111111111000000000
0000000000000000000000000000000000000000000000000000000000001111111
1000000000000000000000000000000000000000000000000000011111111111111111
1110000000000000000001111111110000000000000000
>DM_train664
MSEPSEKKQKVATSSLEQLKKAGTHVVADSGDFEAISKYEPQDSTTNPSLILAASKLEKYARFIDAAV
EYGRKHGKTDHEKIENAMDKILVEFGTQILKVVPGRVSTEVDARLSFDKKATVKKALHIIKLYKDAGV
PKERVLIKIASTWEGIQAARELEVKHGIHCNMTLLFSFTQAVACAEANVTLISPFVGRIMDFYKALSG
KDYTAETDPGVLSVKKIYSYYKRHGYATEVMAASFRNLDELKALAGIDNMTLPLNLLEQLYESTDPIE

NKLNSESAKEEGVEKVSFINDEPHFRYVLNEDQMATEKLSDGIRKFSADIEALYKLVEEKM
1111111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000111110000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train665
GMATYNYPEFGAGLWHFANYIDRYAVDGYGPALSTIDQINAAKEVGELSYVDLPYPFTPGVTLSEVKD
ALKDAGLKAIGITPEIYLQKWSRGAFTNPDPAARAAAFELMHESAGIVRELGANYVKVWPGQDGW
DYPFQVSHKNLWKLAVDGMRDLAGANPDVKFAIEYKPREPRVKMTWDSAARTLLGIEDIGLDNVG
VLLDFGHALYGGESPADSAQLIIDRGRLFGMDVNDNLRGWDDDLVVGTVHMTEIFEFFYVLKINNW
QGVWQLDQFPFRENHVEAAQLSIRFLKHIYRALDKLDIPALQAAQEAQNPLQAQRIVQDALLSSITVS
E
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001
>DM_train666
MTHSPSFLQHALSSSDTRAEWPLPGGLAARWLAPGCVELNGDARGADSVLLSCGVHGNETAPIEVV
DGMLTDIAAGQLALNCRLLVMFANLDAIRQGVRYGNYDMNRLFNGAHARHPELPESVRAAELETLA
AEFFAGARARKLHYDLHTAIRGSVFEKFAIYPFLHDGRTHKREQLAWLQRCGIEAVLLHTQPANTFS
YFTSQYCEADAFTLELGKARPFGQNDLSRFSGIDGALRGLLSNPQANVPDLDEDKLPLFRAKYDLVK
HSEAFKLNLADSVENFTLLPDGMLIAEDGAVRYQATGGEERILFPNPAVKPGLRAGIVVEPARLPSR
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001111110000000000000
000000000111110000000000000111111000000000000011
>DM_train667
SLSQTTNIKEQTDTGLAPPAPAITTNSAAIEEQANSSIRKLYHTLNTMPNTSMADRISQISAYFKGTKY
ILGSLGEGPNARYDQFPRYRVDGFDCDTYVNTVLSLALANSLESFQECLKHTRYKNGKRSYINRNHF
TSIDWNNYNQKRGLLKDITFSIRNEKKQPVALYANALINKPQWYNHKTIDTIRLQKQDKNEQEKRLV
ELKAKGKTLETSLSNVPYIPFTALFSENKPNLHLFSQIPNGAVIEIIRPNWDLRQQIGTELDISHLGFAI
WINNELFFRQASSQYGKVVDVSLIDYLDKARSSPTIKGINIQVVLPEKPVSNGCQLFDIR
1111111111111111111111111000000000000000000000001110000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001110000111
>DM_train668
GLVPRGSHMTGRMLTLDGNPAANWLNNARTKWSASRADVVLSYQQNNGGWPKNLDYNSVGNGG
GGNESGTIANGATITEMVFLAEVYKSGGNTKYRDAVRKAANFLVNSQYSTGALPQFYPLKGGYSDHA
TFNDNGMAYALTVLDFAANKRAPFDTDVFSDNDRTRFKTAVTKGTDYILKAQWKQNGVLTVWCAQ

HGALDYQPKKARAYELESLSGSESVGVLAFLMTQPQTAEIEQAVRAGVAWFNSPRTYLEGYTYDSSL
AATNPIVPRAGSKMWYRFYDLNTNRGFFSDRDGSKFYDITQMSLERRTGYSWGGNYGTSIINFAQK
VGYL
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train669
MHHHHHHGSTSLYKKAGSETLYIQGMAEFPASLLILNGKSTDNLPLREAIMLLREEGMTIHVRVTW
EKGDAARYVEEARKFGVATVIAGGGDGTINEVSTALIQCEGDDIPALGILPLGTANDFATSVGIPEALD
KALKLAIAGDAIAIDMAQVNKQTCFINMATGGFGTRITTETPEKLKAALGSVSYIIHGLMRMDTLQP
DRCEIRGENFHWQGDALVIGIGNGRQAGGGQQLCPNALINDGLLQLRIFTGDEILPALVSTLKSDEDN
PNIIEGASSWFDIQAPHDITFNLDGEPLSGQNFHIEILPAALRCRLPPDCPLLRSTHHHHHH
11111111111111111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111111111110000000000000000000000000
00000000000000000000000000000000000000111111111111111110000000000000
00000000000000000000000000000000000111111111111111111000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>DM_train670
QSSVTLFGIVDTNVAYVNKDAAGDSRYGLGTSGASTSRLGLRGTEDLGGGLKAGFWLEGEIFGDDGN
ASGFNFKRRSTVSLSGNFGEVRLGRDLVPTSQKLTSYDLFSATGIGPFMGFRNWAAGQGADDNGIRA
NNLISYYTPNFGGFNAGFGYAFDEKQTIGTADSVGRYIGGYVAYDNGPLSASLGLAQQKTAVGGLATD
RDEITLGASYNFGVAKLSGLLQQTKFKRDIGGDIKTNSYMLGASAPVGGVGEVKLQYALYDQKAIDSK
AHQITLGYVHNLSKRTALYGNLAFLKNKDASTLGLQAKGVYAGGVQAGESQTGVQVGIRHAF
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train671
GMSEAPHLTFDLDTPGVSTGHLVVPKGADCEALSLPVFSCNRGEGPSLLITGGNHGNELQGPILARRL
VKWLPEAQRCGRIIIVPEINPLAVQAWTRNTPIDGKNLNRVFPGRSDGSVSERIADAISRLLLPVVDT
VLDLHSFGPTWDCAPSIISHPIADIDQMTKTVSISKAFKLPVTLLWEHNETDGMFDTLVHRQGKTFI
CTEFGGGVVSAEALTIYEAGVRNGLIALGLVKGKAEYPTFRQQKTGQTLETTSSDQLKSPSPGIFEPRC
SVMDEVEQGDVVGVLHPMGSLSAASIDIRAQSKSTVFAIRSAMYVQGNEEVAILARPLAR
10000000000000000000000001110000000000000000000000000000000000000000
00000000000000000000111111111111111111111111000000000000000000000000
00000000000001111100000000000000000000111111000000000000000000000000
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>DM_train672
MGSVSKANVPKIDVSPLFGDDQAAKMRVAQQIDAASRDTGFFYAVNHGINVQRLSQKTKEFHMSITP
EEKWDLAIRAYNKEHQDQVRAGYYLSIPGKKAVESFCYLNPNFTPDHPRIQAKTPTHEVNVWPDET

KHPGFQDFAEQYYWDVFGLSSALLKGYALALGKEENFFARHFKPDDTLASVVLIRYPYLDPYPEAAIK
TAADGTKLSFEWHEDVSLITVLYQSNVQNLQVETAAGYQDIEADDTGYLINCGSYMAHLTNNYYKAP
IHRVKWVNAERQSLPFFVNLGYDSVIDPFDPREPNGKSDREPLSYGDYLQNGLVSLINKNGQT
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011111111
>DM_train673
MLKQPIQAQQLIELLKVHYGIDIHTAQFIQGGADTNAFAYQADSESKSYFIKLKYGYHDEINLSIIRLLH
DSGIKEIIFPIHTLEAKLFQQLKHFKIIAYPFIHAPNGFTQNLTGKQWKQLGKVLRQIHETSVPISIQQQ
LRKEIYSPKWREIVRSFYNQIEFDNSDDKLTAAFKSFFNQNSAAIHRLVDTSEKLSKKIQPDLDKYVL
CHSDIHAGNVLVGNEESIYIIDWDEPMLAPKERDLMFIGGGVGNVWNKPHEIQYFYEGYGEINVDKT
ILSYYRHERIVEDIAVYGQDLLSRNQNNQSRLESFKYFKEMFDPNNVVEIAFATEQ
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000001
>DM_train674
MHNHNNRLVITPGEPAGVGPDLAITLAQQDWPVELVVCADPALLLARASQLNLPLQLREYQADQPAI
AQQAGSLTILPVKTAVNVVPGKLDVGNSHYVVETLAKACDGAISGEFAALVTGPVQKSIINDAGIPFIG
HTEFFADRSHCQRVVMMLATEELRVALATTHLPLLAVPGAITQASLHEVITILDNDLKTKFGITQPQI
YVCGLNPHAGEGGHMGHEEIDTIIPALNTLRQQGINLIGPLPADTLFQPKYLQHADAVLAMYHDQGL
PVLKYQGFGRAVNITLGLPFIRTSVDHGTALELAATGTADVGSFITALNLAIKMINNSNE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011
>DM_train675
GMQKPHLLITSAGRRAKLVEYFVKEFKTGRVSTADCSPLASALYMADQHYIVPKIDEVEYIDHLLTLC
QDEGVTALLTLIDPELGLLAQATERFQAIGVTVIVSPYAACELCFDKYTMYEYCLRQGIAHARTYATM
ASFEEALAAGEVQLPVFVKPRNGSASIEVRRVETVEEVEQLFSKNTDLIVQELLVGQELGVDAYVDLIS
GKVTSIFIKEKLTMRAGETDKSRSVLRDDVFELVEHVLDGSGLVGPLDFDLFDVAGTLYLSEINPRFGG
GYPHAYECGVNFPAQLYRNLMHEINVPQIGQYLDDIYMLKHDTVTLISAAELQKIKR
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111111111111111111111000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train676
GMELKSAEEKSLYYRNKIKEVIDEVGKVVVGQKYMINRLLIGICTGGHILLEGVPGLAKTLSVNTLAK
TMDLDFHRIQFTPDLLPSDLIGTMIYNQHKGNFEVKKGPVFSNFILADEVNRSPAKVQSALLECMQE

KQVTIGDTTYPLDNPFLVLATQNPVEQEGTYPLPEAQVDRFMMKIHLTYLDKESELEVMRRVSNMN
FNYQVQKIVSKNDVLEIRNEINKVTISESLEKYIIELVFATRFPAEYGLEAEASYILYGASTRAAINLNRV
AKAMAFFNNRDYVLPEDIKEVAYDILNHRIILNYEAEAEGISTRQIIETILRKVNITKA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001
>DM_train677
MVPPTINTGKNITTERAVLTLNGLQIKLHKVVGESRDDIVAKMKDLAMDDHKFPRLPGPNPVSIERK
DFEKLKQNKYVVSEKTDGIRFMMFFTRVFGFKVCTIIDRAMTVYLLPFKNIPRVLFQGSIFDGELCVD
IVEKKFAFVLFDAVVVSGVTVSQMDLASRFFAMKRSLKEFKNVPEDPAILRYKEWIPLEHPTIIKDHL
KKANAIYHTDGLIIMSVDEPVIYGRNFNLFKLKPGTHHTIDFIIMSEDGTIGIFDPNLRKNVPVGKLDG
YYNKGSIVECGFADGTWKYIQGRSDKNQANDRLTYEKTLLNIEENITIDELLDLFKWE
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111
>DM_train678
MKTAYIAKQRQISFVKSHFSRQLEERLGLIEVQAPILSRVGDGTQDNLSGAEKAVQVKVKALPDAQFE
VVHSLAKWKRQTLGQHDFSAGEGLYTHMKALRPDEDRLSPLHSVYVDQWDWERVMGDGERQFST
LKSTVEAIWAGIKATEAAVSEEFGLAPFLPDQIHFVHSQELLSRYPDLDAKGRERAIAKDLGAVFLVGI
GGKLSDGHRHDVRAPDYDDWSTPSELGHAGLNGDILVWNPVLEDAFELSSMGIRVDADTLKHQLA
LTGDEDRLELEWHQALLRGEMPQTIGGGIGQSRLTMLLLQLPHIGQVQAGVWPAAVRESVPSLL
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train679
MQPQSVLHSGYFHPLLRAWQTATTTLNASNLIYPIFVTDVPDDIQPITSLPGVARYGVKRLEEMLRPL
VEEGLRCVLIFGVPSRVPKDERGSAADSEESPAIEAIHLLRKTFPNLLVACDVCLCPYTSHGHCGLLSE
NGAFRAEESRQRLAEVALAYAKAGCQVVAPSDMMDGRVEAIKEALMAHGLGNRVSVMSYSAKFASC
FYGPFRDAAKSSPAFGDRRCYQLPPGARGLALRAVDRDVREGADMLMVKPGMPYLDIVREVKDKH
PDLPLAVYHVSGEFAMLWHGAQAGAFDLKAAVLEAMTAFRRAGADIIITYYTPQLLQWLKEE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111110000000000000000000000000000001111111111111111
00000000000000000000000000000000000000000000000000000000000000000001
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train680
MLALGIEGTAHTLGIGIVSEDKVLANVFDTLTTEKGGIHPKEAAEHHARLMKPLLRKALSEAGVSLD
DIDVIAFSQGPGLGPALRVVATAARALAVKYRKPIVGVNHCIAHVEITKMFGVKDPVGLYVSGGNTQV

LALEGGRYRVFGETLDIGIGNAIDVFARELGLGFPGGPKVEKLAEKGEKYIELPYAVKGMDLSFSGLLT
EAIRKYRSGKYRVEDLAYSFQETAFAALVEVTERAVAHTEKDEVVLVGGVAANNRLREMLRIMTEDR
GIKFFVPPYDLCRDNGAMIAYTGLRMYKAGISFRLEETIVKQKFRTDEVEIVWHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111
>DM_train681
MIKISYSPYTLKPVQSLNAATAATAREGVLLKVEWNDGLYGFADLHPWPELGDLSLEEQLSDLRMGR
MTTQIEQSIWLARRDALLRKEKKHVFDGGEKIKNNYLLSHFQDLKPGFLDGLKNEGYNTVKVKMG
RDLQKEADMLTHIAASGMRMRLDFNALGSWQTFEKFMVNLPLTVRPLIEYVEDPFPFDFHAWGEA
RKLAKIALDNQYDKVPWGKIASAPFDVIVIKPAKTDVDKAVAQCQKWNLKLAVTSYMDHPVGVVHA
VGVAMELKDKYGDMILESGCLTHRLYQMDSFAAELSTQGPYLLKNKGTGVGFDKLLEALTWYQLKV
R
11000000000000111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train682
MTTSDLVAGELAGDGLRDTRPGDTWLADRSWNRPGWTVAELEAAKAGRTISVVLPALDEEDTIGSV
IDSISPLVDGLVDELIVLDSGSTDDTEIRAVAAGARVVSREQALPEVPIRPGKGEALWRSLAASRGDIVV
FVDSDLINPHPMFVPWLVGPLLTGDGVHLVKSFYRRPLNVGDAGGGAGATGGGRVTELVARPLLAAL
RPELGCILQPLGGEYAATRELLTSVPFAPGYGVEIGLLVDTFDRLGLDAIAQVNLGVREHRNRPLAELG
AMSRQVIATLLSRCGIPDSGVGLTQFVADGPEGQSYTQHTWPVSLADRPPMQAIRPR
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train683
TGLGELKISDTICAQNAVEALPALSVDEPTVTMTFQVNTSPFAGKEGKFVTSRNILERLEKELVHNVA
LRVEQTDDPDKFRVSGRGELHLSILIENMRREGFELAVSRPEVIIKEEDGQLMEPFETVTIDVMEEHQ
GGIMENIGLRKGELKDMAPDGKGRVRMDFIMPSRGLIGFQTEFMTLTSGSGLLYHTFDHYGPHKGG
NIGQRVNGVLIANAAGKALTNALFNLQERGRLFIGHGVEVYEGMVIGIHSRDNDLTVNALKGKQLTN
VRASGTDDAQVLTPPIVMTLEQALEFIDDDELVEVTPESIRIRKKFLTESDRKRASRSAK
11111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111111111110000000
00000000000000000000000000000000000000000001111
>DM_train684
GSLIGLMKDAFQPHHHHHHHLSPHPPGTVDKKMVEKCWKLMDKVVRLCQNPKLALKNSPPYILDL

LPDTYQHLRTILSRYEGKMETLGENEYFRVFMENLMKKTKQTISLFKEGKERMYEENSQPRRNLTK
LSLIFSHMLAELKGIFPSGLFQGDTFRITKADAAEFWRKAFGEKTIVPWKSFRQALHEVHPISSGLEA
MALKSTIDLTCNDYISVFEFDIFTRLFQPWSSLLRNWNSLAVTHPGYMAFLTYDEVKARLQKFIHKP
GSYIFRLSCTRLGQWAIGYVTADGNILQTIPHNKPLFQALIDGFREGFYLFPDGRNQNPDLTG
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train685
APPPVPKTPAGPLTLSGQGSFFVGGRDVTSETLSLAPKYDAHGTVTVDQMYVRYQIPQRAKRYPITLI
HGCCLTGMTWETTPDGRMGWDEYFLRKGYSTYVIDQSGRGRSATDISAINAVKLGKAPASSLPDLFA
AGHEAAWAIFRFGPRYPDAFKDTQFPVQAQAELWQQMVPDWLGSMPTPNPTVANLSKLAIKLDGT
VLLSHSQSGIYPFQTAAMNPKGITAIVSVEPGECPKPEDVKPLTSIPVLVVFGDHIEEFPRWAPRLKAC
HAFIDALNAAGGKGQLMSLPALGVHGNSHMMMQDRNNLQVADLILDWIGRNTAKPAHGR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111
>DM_train687
MDTWMVLLGLQILLLPLLAHCTAPASTLRFVAVGDWGGVPNAPFHTAREMANAKEIARTVQIMGA
DFIMSLGDNFYFTGVHDANDKRFQETFEDVFSDRALRNIPWYVLAGNHDHLGNVSAQIAYSKISKR
WNFPSPYYRLRFKVPRSNITVAIFMLDTVMLCGNSDDFVSQQPEMPRDLGVARTQLSWLKKQLAAA
KEDYVLVAGHYPIWSIAEHGPTRCLVKNLRPLLAAYGVTAYLCGHDHNLQYLQDENGVGYVLSGAGN
FMDPSVRHQRKVPNGYLRFHYGSEDSLGGFTYVEIGSKEMSITYVEASGKSLFKTSLPRRPRP
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train689
MIEIKDKQLTGLRFIDLFAGLGGFRLALESCGAECVYSNEWDKYAQEVYEMNFGEKPEGDITQVNEK
TIPDHDILCAGFPCQAFSISGKQKGFEDSRGTLFFDIARIVREKKPKVVFMENVKNFASHDNGNTLEV
VKNTMNELDYSFHAKVLNALDYGIPQKRERIYMICFRNDLNIQNFQFPKPFELNTFVKDLLLPDSEV
EHLVIDRKDLVMTNQEIEQTTPKTVRLGIVGKGGQGERIYSTRGIAITLSAYGGGIFAKTGGYLVNGKT
RKLHPRECARVMGYPDSYKVHPSTSQAYKQFGNSVVINVLQYIAYNIGSSLNFKPY
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001110000000000000000000000
>DM_train690
HLIPAQQRTVEHLDAMQWINGDGYLHNVFVRWFNGDVIRPKTWFWQDVKTRKILGWRCDVSENI

DSIRLSFMDVVTRYGIPEDFHITIDNTRGAANKWLTGGAPNRYRFKVKEDDPKGLFLLMGAKMHW
TSVVAGKGWGQAKPVERAFGVGGLEEYVDKHPALAGAYTGPNPQAKPDNYGDRAVDAELFLKTLAE
GVAMFNARTGRETEMCGGKLSFDDVFEREYARTIVRKPTEEQKRMLLLPAEAVNVSRKGEFTLKVG
GSLKGAKNVYYNMALMNAGVKKVVVRFDPQQLHSTVYCYTLDGRFICEAECLAPVAFNDAAAGREY
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111100000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111111111111
>DM_train691
MENEKILNPIIIQRADPMIYKHNDGYYYFTASVPEYDRIEVRKAKTIEGLRNAEPVDVWRRHESGEM
SNLIWAPEIHFINGAWYIYFAAAPDKNIEDDTFNHRMFVIQNENENPFTGNWVEKGRIKTAWESFS
LDATIFEHNEKLYYVWAQQDINIKGHSNIYIAEMENPWTLKTKPVMLTKPELEWEIKGFWVNEGPA
VLKKNGKIFITYSASATDVNYCIGMLTAEENSNLLDKNSWTKSQTPVFKTSMENHQYGPGHNSFTVS
EDGKHDVIVYHARNYTEIKGDPLYDPNRHTRAQIINWREDGTPDFGVPEVDSLEIETPVKA
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111
>DM_train692
LDGVLVPESGILVSVGQDVDSVNDYASALGTIPAGVTNYVGIVNLDGLNSDADAGAGRNNIAELANAY
PTSALVVGVSMNGEVDAVASGRYNANIDTLLNTLAGYDRPVYLRWAYEVDGPWNGHSPSGIVTSFQ
YVHDRIIALGHQAKISLVWQVASYCPTPGGQLDQWWPGSEYVDWVGLSYFAPQDCNWDRVNEAAQ
FARSKGKPLFLNESTPQRYQVADLTYSADPAKGTNRQSKTSQQLWDEWFAPYFQFMSDNSDIVKGF
TYINADWDSQWRWAAPYNEGYWGDSRVQANALIKSNWQQEIAKGQYINHSETLFETLGYGST
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111
>DM_train693
MRGSHHHHHHTDPINKDIYQALQQLIPNEKIKVDEPLKRYTYTKTGGNADFYITPTKNEEVQAVVKY
AYQNEIPVTYLGNGSNIIIREGGIRGIVISLLSLDHIEVSDDAIIAGSGAAIIDVSRVARDYALTGLEFACGI
PGSIGGAVYMNAGAYGGEVKDCIDYALCVNEQGSLIKLTTKELELDYRNSIIQKEHLVVLEAAFTLAPG
KMTEIQAKMDDLTERRESKQPLEYPSCGSVFQRPPGHFAGKLIQDSNLQGHRIGGVEVSTKHAGFMV
NVDNGTATDYENLIHYVQKTVKEKFGIELNREVRIIGEHPKESLQPSLIS
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111111
>DM_train694
MSATSTATSTSASQLHLNSTPVTHCLSDIVKKEDWSDFKFAPIRESTVSRAMTSRYFKDLDKFAVSDV

IIVGAGSSGLSAAYVIAKNRPDLKVCIIESSVAPGGGSWLGGQLFSAMVMRKPAHLFLQELEIPYEDEG
DYVVVKHAALFISTVLSKVLQLPNVKLFNATCVEDLVTRPPTEKGEVTVAGVVTNWTLVTQAHGTQ
CAMDPNVIELAGYKNDGTRDLSQKHGVILSTTGHDGPFGAFCAKRIVDIDQNQKLGGMKGLDMNH
AEHDVVIHSGAYAGVDNMYFAGMEVAELDGLNRMGPTFGAMALSGVHAAEQILKHFAA
11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011110000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train695
MGSSSSGRENLYFQGHMFFTDWEGPWILTDFALELCMAVFNNARFFSNLSEYDDYLAYEVRREGYE
AGYTLKLLTPFLAAAGVKNRDVERIAELSAKFVPDAEKAMATLQERWTPVVISTSYTQYLRRTASMI
GVRGELHGTEVDFDSIAVPEGLREELLSIIDVIASLSGEELFRKLDELFSRSEVRKIVESVKAVGAGEKA
KIMRGYCESKGIDFPVVVGDSISDYKMFEAARGLGGVAIAFNGNEYALKHADVVIISPTAMSEAKVIEL
FMERKERAFEVLSAVSIPETEIYIMENSDFGEVLEKSKRMRVRLRGLAGELGGS
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train696
MVVVGLDVGYGDTKVIGVDGKRIIFPSRWAVTETESWGIGGKIPVLSTDGGQTKFIYGKYASGNNIRV
PQGDGRLASKEAFPLIAAALWESGIHNDGSPVDLVIGSGTPLGTFDLEVKAAKEALENKVLTVTGPE
GEVRQFNITRLIMRPQGVGAALYLLNQGIIEQQPGYGVVIDVGSRTTDVLTINLMDMEPVVELSFSLQI
GVGDAISALSRKIAKETGFVVPFDLAQEALSHPVMFRQKQVGGPEVSGPILEDLANRIIENIRLNLRGE
VDRVTSLIPVGGGSNLIGDRFEEIAPGTLVKIKPEDLQFANALGYRDAAERSM
00000000000000000000000000000000000011110000000000000000000000000000000
00000000000000000000000111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train698
MRVLIVKTSSMGDVLHTLPALTDAQQAIPGIKFDWVVEEGFAQIPSWHAAVERVIPVAIRRWRKAW
FSAPIKAERKAFREALQAKNYDAVIDAQGLVKSAALVTRLAHGVKHGMDWQTAREPLASLFYNRKH
HIAKQQHAVERTRELFAKSLGYSKPQTQGDYAIAQHFLTNLPTDAGEYAVFLHATTRDDKHWPEEH
WRELIGLLADSGIRIKLPWGAPHEEERAKRLAEGFAYVEVLPKMSLEGVARVLAGAKFVVSVDTGLS
HLTAALDRPNITVYGPTDPGLIGGYGKNQMVCRAPGNELSQLTANAVKQFIEENAEKAAMI
00000000000000000000000000000000000000000000000000000000000000001111111
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
11111111000000000000000000000000000000
>DM_train699
GMRKPKITVIGGGTGSPVILKSLREKDVEIAAIVTVADDGGSSGELRKNMQQLTPPGDLRNVLVAMSD

MPKFYEKVFQYRFSEDAGAFAGHPLGNLIIAGLSEMQGSTYNAMQLLSKFFHTTGKIYPSSDHPLTL
HAVFQDGTEVAGESHIVDHRGIIDNVYVTNALNDDTPLASRRVVQTILESDMIVLGPGSLFTSILPNIV
IKEIGRALLETKAEIAYVCNIMTQRGETEHFTDSDHVEVLHRHLGRPFIDTVLVNIEKVPQEYMNSN
RFDEYLVQVEHDFVGLCKQVSRVISSNFLRLENGGAFHDGDLIVDELMRIIQVKK
10000000000000000000000000000000000011111111111111111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train700
MILGIDIGGANTKITELHENGEFKVHHLYFPMWKNNDKLAEVLKTYSNDVSHVALVTTAELADSYE
TKKEGVDNILNAAESAFGSNISVFDSNGNFISLESAKTNNMKVSASNWCGTAKWVSKNIEENCILVD
MGSTTTDIIPIVEGKVVAEKTDLERLMNHELLYVGTLRTPISHLGNTISFKGVDTNVSSEYFAITADISV
VLEKVTTEEYTCDTPDGKGTDKRSSLVRISKVLCSDLDQISEIDAENIAKNYYELWKELILENVENVA
EKYGSKKVVITGLGENILKDALADFEVISVAERYGKDVSLATPSFAVAELLKNEL
00000000110000000000000000111111111111111111111000000000011111100000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train701
SQLVECVPNFSEGKNQEVIDAISRAVAQTPGCVLLDVDSGPSTNRTVYTFVGRPEDVVEGALNAARA
AYQLIDMSRHHGEHPRMGALDVCPFIPVRGVTMDECVRCAQAFGQRLAEELGVPVYLYGEAARTAG
RQSLPALRAGEYEALPEKLKQAEWAPDFGPSAFVPSWGATVAGARKFLLAFNINLLSTREQAHRIAL
DLREQGRGKDQPGRLKKVQAIGWYLDEKNLAQVSTNLLDFEVTGLHTVFEETCREAQELSLPVVGS
QLVGLVPLKALLDAAAFYCEKENLFLLQDEHRIRLVVNRLGLDSLAPFKPKERIIEYLV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train702
LQTLPPVQLAQKYFQIFSEEKDPLWQDPCEDKRHKDIWSKEKTCDRFPKLLIIGPQKTGTTALYLFLG
MHPDLSSNYPSSETFEEIQFFNGHNYHKGIDWYMEFFPIPSNTTSDFYFEKSANYFDSEVAPRRAAA
LLPKAKVLTILINPADRAYSWYQHQRAHDDPVALKYTFHEVITAGSDASSKLRALQNRCLVPGWYAT
HIERWLSAYHANQILVLDGKLLRTEPAKVMDMVQKFLGVTNTIDYHKTLAFDPKKGFWCQLLEGGK
TKCLGKSKGRKYPEMDLDSRAFLKDYYRDHNIELSKLLYKMGQTLPTWLREDLQNTR
11111111111111111111100000001111111111111100000000000000000000000000
00000000000000000000000000000000001111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111
>DM_train703
GMKEIRIILMGTGNVGLNVLRIIDASNRRRSAFSIKVVGVSDSRSYASGRNLDISSIISNKEKTGRISDRA

FSGPEDLMGEAADLLVDCTPASRDGVREYSLYRMAFESGMNVVTANKSGLANKWHDIMDSANQNS
KYIRYEATVAGGVPLFSVLDYSILPSKVKRFRGIVSSTINYVIRNMANGRSLRDVVDDAIKKGIAESNP
QDDLNGLDAARKSVILVNHIFGTEYTLNDVEYSGVDERSYNANDRLVTEVYVDDRRPVAVSRIISLNK
DDFLMSIGMDGLGYQIETDSNGTVNVSDIYDGPYETAGAVVNDILLLSKVQK
11000000000000000000000000000011000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>DM_train704
MGSDKIHHHHHHHRTKDQYYELRDFALGTSVRIVVSSQKINPRTIAEAILEDMKRITYKFSFTDERSVV
KKINDHPNEWVEVDEETYSLIKAACAFAELTDGAFDPTVGRLLELWGFTGNYENLRVPSREEIEEAL
KHTGYKNVLFDDKNMRVMVKNGVKIDLGGIAKGYALDRARQIALSFDENATGFVEAGGDVRIIGPKF
GKYPWVIGVKDPRGDDVIDYIYLKSGAVATSGDYERYFVVDGVRYHHILDPSTGYPARGVWSVTIIAE
DATTADALSTAGFVMAGKDWRKVVLDFPNMGAHLLIVLEGGAIERSETFKLFERE
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train705
MAMSQQDLPTLFYSGKSNSAVPIISESELQTITAEPWLEISKKGLQLEGLNFDRQGQLFLLDVFEGNIF
KINPETKEIKRPFVSHKANPAAIKIHKDGRLFVCYLGDFKSTGGIFAATENGDNLQDIIEDLSTAYCIDD
MVFDSKGGFYFTDFRGYSTNPLGGVYYVSPDFRTVTPIIQNISVANGIALSTDEKVLWVTETTANRLH
RIALEDDGVTIQPFGATIPYYFTGHEGPDSCCIDSDDNLYVAMYGQGRVLVFNKRGYPIGQILIPGRDE
GHMLRSTHPQFIPGTNQLIICSNDIEMGGGSMLYTVNGFAKGHQSFQFQ
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train706
AAAADTTVTQFLQSFKENAENGALRKFYEVIMDNGGAVLDDINSLTEVTILAPSNEAWNSSNINNVL
RDRNKMRQILNMHIIKDRLNVDKIRQKNANLIAQVPTVNNNTFLYFNVRGEGSDTVITVEGGGVNA
TVIQADVAQTNGYVHIIDHVLGVPYTTVLGKLESDPMMSDTYKMGKFSHFNDQLNNTQRRFTYFVP
RDKGWQKTELDYPSAHKKLFMADFSYHSKSILERHLAISDKEYTMKDLVKFSQESGSVILPTFRDSL
SIRVEEEAGRYVIIWNYKKINVYRPDVECTNGIIHVIDYPLLEEKDVVVAGGSAAAAA
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111
>DM_train708
MTKERFVISRRRTGFGDCLWSLASAWSYAQRTGRTLVIDWRGSCYVEQPFSNAFPAFFEPVEDIAGV

PVICDDRVNQLSFPGPFFPRWWNRPSIDCINRPDEQIFRERDELTELFQAREDSEANTIVCDACLMW
RCSEEAERLIFRNIKLRSEIRARIDALYEEHFSGHSIIGVHVRHGNGEDIMEHAPYWADSELALHQVC
MAIRKAKALSYPKPVKVFLCTDSAQVLDQVSGLFPDVFAVPKRFQADRAGPLHSAEMGIEGGASALI
DMYLLARCATVIRFPPTSAFTRYARLLVPRIIEFDLSNPGHLTMIDNPYEHFAAS
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111000000000000000000000
00000000000000000000000000000000011111111111000000000000000000000000
00000000000000000001100000000001111111
>DM_train709
MKTRITELLKIDYPIFQGGMAWVADGDLAGAVSKAGGLGIIGGGNAPKEVVKANIDKIKSLTDKPFGV
NIMLLSPFVEDIVDLVIEEGVKVVTTGAGNPSKYMERFHEAGIIVIPVVPSVALAKRMEKIGADAVIAE
GMEAGGHIGKLTTMTLVRQVATAISIPVIAAGGIADGEGAAAGFMLGAEAVQVGTRFVVAKESNAHP
NYKEKILKARDIDTTISAQHFGHAVRAIKNQLTRDFELAEKDAFKQEDPDLEIFEQMGAGALAKAVV
HGDVDGGSVMAGQIAGLVSKEETAEEILKDLYYGAAKKIQEEASRWTGVVRND
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011100000000000000000000000000000
00000000000000000000000000000000001111
>DM_train710
EIFSQELTQREANVKKVHENLEELQKKLDHTSFAHKEDRDRLEAQIAQKEQEQKAKLAEYDQKVQN
EFDARERAEREREAARGDAAAEKQRLASLLKDLEDDASGYNRLRPSKPMLSEEDTNILRQLFLSSAV
SGSGKFSFQDLKQVLAKYADTIPEGPLKKLFVMVENDTKGRMSYITLVAVANDLAALVADFRKIDTNS
NGTLSRKEFREHFVRLGFDKKSVQDALFRYADEDESDDVGFSEYVHLGLCLLVLRILYAFADFDKSGQ
LSKEEVQKVLEDAHIPESARKKFEHQFSVVDVDDSKSLSYQEFVMLVLLMFHDD
00000000000000000000000000000000001111000000000000000000000000000000
00000000000000000000000000000011111111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train711
FNKIKDSVKQKIDSMGDKGTYGVSASHPLAVEEGMKVLKNGGSAVDAAIVVSYVLGVVELHASGIGG
GGGMLIISKDKETFIDYRETTPYFTGNQKPHIGVPGFVAGMEYIHDNYGSLPMGELLQPAINYAEKGF
KVDDSLTMRLDLAKPRIYSDKLSIFYPNGEPIETGETLIQTDLARTLKKIQKEGAKGFYEGGVARAISK
TAKISLEDIKGYKVEVRKPVKGNYMGYDVYTAPPPFSGVTLLQMLKLAEKKEVYKDVDHTATYMSK
MEEISRIAYQDRKKNLGDPNYVNMDPNKMVSDKYISTMKNENGDALSEAEHES
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000001111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111110000000000000011111111111111
>DM_train712
MKNDRTLQAIGRQLKAMGCERFDIGVRDATTGQMMNREWSAAEVLQNTPWLKRMNAQGNDVYI

RPAEQERHGLVLVDDLSEFDLDDMKAEGREPALVVETSPKNYQAWVKVADAAGGELRGQIARTLAS
EYDADPASADSRHYGRLAGFTNRKDKHTTRAGYQPWVLLRESKGKTATAGPALVQQAGQQIEQAQR
QQEKARRLASLELPERQLSRHRRTALDEYRSEMAGLVKRFGDDLSKCDFIAAQKLASRGRSAEEIGK
AMAEASPALAERKPGHEADYIERTVSKVMGLPSVQLARAELARAPAPRQRGMDRGGPDFSM
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000100001110000000000000000000000000000000000000000000111111
11100000000000000000000000000000000000000000000000000000000110000000
00000000000000000000001111111111111111
>DM_train713
MADDFAYLNARVRVRRGTLLKESFFQEALDLSFADFLRLLSETVYGGELAGQGLPDVDRAVLRTQAK
LVGDLPRLVTGEAREAVRLLLLRNDLHNLQALLRAKATGRPFEEVLLLPGTLREEVWRQAYEAQDP
AGMAQVLAVPGHPLARALRAVLRETQDLARVEALLAKRFFEDVAKAAKGLDQPALRDYLALEVDAE
NLRTAFKLQGSGLAPDAFFLKGGRFVDRVRFARLMEGDYAVLDELSGTPFSGLSGVRDLKALERGLR
CVLLKEAKKGVQDPLGVGLVLAYVKEREWEAVRLRLLARRAYFGLPRAQVEEEVVCP
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train714
QLTPTFYDNSCPNVSNIVRDTIVNELRSDPRIAASILRLHFHDCFVNGCDASILLDNTTSFRTEKDAFG
NANSARGFPVIDRMKAAVESACPRTVSCADLLTIAAQQSVTLAGGPSWRVPLGRRDSLQAFLDLANA
NLPAPFFTLPQLKDSFRNVGLNRSSDLVALSGGHTFGKNQCRFIMDRLYNFSNTGLPDPTLNTTYLQ
TLRGLCPLNGNLSALVDFDLRTPTIFDNKYYVNLEEQKGLIQSDQELFSSPNATDTIPLVRSFANSTQT
FFNAFVEAMDRMGNITPLTGTQGQIRLNCRVVNSNSLLHDMVEVVDFVSSM
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111111
>DM_train715
MGSSHHHHHHHSSGRENLYFQGHMEGVRWAFSCGTWLPSRAEWLLAVRSIQPEEKERIGQFVFAR
DAKAAMAGRLMIRKLVAEKLNIPWNHIRLQRTAKGKPVLAKDSSNPYPNFNFNISHQGDYAVLAAE
PELQVGIDIMKTSFPGRGSIPEFFHIMKRKFTNKEWETIRSFKDEWTQLDMFYRNWALKESFIKAIG
VGLGFELQRLEFDLSPLNLDIGQVYKETRLFLDGEEEKEWAFEESKIDEHHFVAVALRKPDGSRHQD
VPSQDDSKPTQRQFTILNFNDLMSSAVPMTPEDPSFWDCFCFTEEIPIRNGTKSLESG
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001100000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111111111000000000000
00000000000000000000000000000000011111111
>DM_train716
MPLCTLRQMLGEARKHKYGVGAFNVNNMEQIQGIMKAVVQLKSPVILQCSRGALKYSDMIYLKKLC

EAALEKHPDIPICIHLDHGDTLESVKMAIDLGFSSVMIDASHHPFDENVRITKEVVAYAHARSVSVEA
ELGTLGGIEEDVQNTVQLTEPQDAKKFVELTGVDALAVAIGTSHGAYKFKSESDIRLAIDRVKTISDLT
GIPLVMHGSSSVPKDVKDMINKYGGKMPDAVGVPIESIVHAIGEGVCKINVDSDSRMAMTGAIRKVF
VEHPEKFDPRDYLGPGRDAITEMLIPKIKAFGSAGHAGDYKVVSLEEAKAWYK
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011111
11111111100000000000000000000001111111111111110000000000000000000011
10000000000000000000110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train717
MTNSNDIDETAATIDTARALLKSFGFEAQRHNVRSAVTLLALAGLKPGDHWADSTTPRLGVQKIMD
WSGAYWAKPYATGSREDFRKKTLRQWVDNGFAVLNPDNLNIATNSQLNEYCLSDEAAQAIRSYGTD
AFESALVDFLSKASDTVRARAEALRAAMISVDLADGDEFLLSPAGQNPLLKKMVEEFMPRFAPGAK
VLYIGDTRGKHTRFEKRIFEETLGLTFDPHGRMPDLVLHDKVRKWLFLMEAVKSKGPFDEERHRTL
RELFATPVAGLVFVNCFENREAMRQWLPELAWETEAWVADDPDHLIHLNGSRFLGPYER
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train719
MLRGGVNDCKIKWEFLIGNSIDSSPILAKNGTIYLGSSNKNLYAINTDGSVKWFFKSGEIIECRPSIGK
DGTIYFGSDKVYAINPDGTEKWRFDTKKAIVSDFTIFEDILYVTSMDGHLYAINTDGTEKWRFKTKK
AIYATPIVSEDGTIYVGSNDNYLYAINPDGTEKWRFKTNDAITSAASIGKDGTIYFGSDKVYAINPDGT
EKWNFYAGYWTVTRPAISEDGTIYVTSLDGHLYAINPDGTEKWRFKTGKRIESSPVIGNTDTIYFGSY
DGHLYAINPDGTEKWNFETGSWIIATPVIDENGTIYFGTRNGKFYALFN
11111111111000000011110000000000000111000000000000000111000000000000
00000000000000111111111111111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train720
TENKRKSMEKLSVDGVISALAFDQRGALKRMMAQHQTKEPTVEQIEELKSLVSEELTPFASSILLDPE
YGLPASRVRSEEAGLLLAYEKTGYDATTTSRLPDCLDVWSAKRIKEAGAEAVKFLLYYDIDGDQDVNE
QKKAYIERIGSECRAEDIPFYLEILTYDEKIADNASPEFAKVKAHKVNEAMKVFSKERFGVDVLKVEV
PVNMKFVEGFADGEVLFTKEEAAQAFRDQEASTDLPYIYLSAGVSAKLFQDTLVFAAESGAKFNGVL
CGRATWAGSVKVYIEEGPQAAREWLRTEGFKNIDELNKVLDKTASPWTEKM
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111
>DM_train721
SEDPVFTFGLIADVQYADIEDGENYLRTRRRYYRGSADLLRDAVLQWRRERVQCVVQLGDIIDGHNR

RRDASDRALDTVMAELDACSVDVHHVWGNHEFYNFSRPSLLSSRLNSAQRTGTDTGSDLIGDDIYA
YEFSPAPNFRFVLLDAYDLSVIGREEESEKHTHSWRILTQHNHNLQDLNLPPVSVGLEQRFVKFNGG
FSEQQLQWLDAVLTLSDHKQERVLIFSHLPVHPCAADPICLAWNHEAVLSVLRSHQSVLCFIAGHDH
DGGRCTDSSGAQHITLEGVIETPPHSHAFATAYLYEDRMVMKGRGRVEDLTITYS
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train722
MAVYTDITEDELRNFLTQYDVGSLTSYKGIAEGVENSNFLLHTTKDPLILTLYEKRVEKNDLPFFLGL
MQHLAAKGLSCPLPLPRKDGELLGELSGRPAALISFLEGMWLRKPEAKHCREVGKALAAMHLASEG
FEIKRPNALSVDGWKVLWDKSEERADEVEKGLREEIRPEIDYLAAHWPKDLPAGVIHADLFQDNVF
FLGDELSGLIDFYFACNDLLAYDVSICLNAWCFEKDGAYNVTKGKALLEGYQSVRPLSEAELEALPLL
SRGSALRFFLTRLYDWLTTPAGALVVKKDPLEYLRKLRFHRTIANVAEYGLAGE
11110000000000000000000000000011100000000000000000000111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>DM_train723
GMTGLSQSQASPMQIQPGNAAFNPWTDAALDTIRDVNQALTLYAEMRVVPAHHDAFLAAIDTVSAK
LRVLPGFLSLALKQMSGDSTMVKNYPETYKGVLATAYLDGVAAGTQPYFYNLFVRFADGRAARAAGF
EALFETHIHPLLHAMAPRGGDGPELLAYRAVLQSVVAGDRHAIYRGAEEIRSFLRRPVELPERETVTV
ENHVMVPEDKHAAWEPQVAILLQVAQDTFEPQDEPSGVGLPGARDNRYYRKALSTEILRNAHADG
GLRAYIMHGVWESVWDHENSHLDPRFLAAAGPVGAAAVVGPVEPFYLTRRLVVAD
11111111111111111111000000000001100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train724
MSSGVDLGTENLYFQSNAMYYGFDIGGTKIALGVFDSTRRLQWEKRVPTPHTSYSAFLDAVCELVEE
ADQRFGVKGSVGIGIPGMPETEDGTLYAANVPAASGKPLRADLSARLDRDVRLDNDANCFALSEAW
DDEFTQYPLVMGLILGTGVGGGLVLNGKPITGQSYITGEFGHMRLPVDALTLMGFDFPLRRCGCGQM
GCIENYLSGRGFAWLYQHYYDQSLQAPEIIALWEQGDEQAHAHVERYLDLLAVCLGNILTIVDPDLLVI
GGGLSNFTAITTQLAERLPRHLLPVARAPRIERARHGDAGGMRGAAFLHLTD
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train725
MLVPRGSMLDFEKPLFEIRNKIESLKESQDKNDVDLQEEIDMLEASLERETKKIYTNLKPWDRVQIA

RLQERPTTLDYIPYIFDSFMELHGDRNFRDDPAMIGGIGFLNGRAVTVIGQQRGKDTKDNIYRNFGM
AHPEGYRKALRLMKQAEKFNRPIFTFIDTKGAYPGKAAEERGQSESIATNLIEMASLKVPVIAIVIGEG
GSGGALGIGIANKVLMLENSTYSVISPEGAAALLWKDSNLAKIAAETMKITAHDIKQLGIIDDVISEPL
GGAHKDIEQQALAIKSAFVAQLDSLESLSRDEIANDRFEKFRNIGSYIE
11111110000000000000001111111111111111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train728
MLVFIDDGSTNIKLQWQESDGTIKQHISPNSFKREWAVSFGDKKVFNYTLNGEQYSFDPISPDAVVT
TNIAWQYSDVNVVAVHHALLTSGLPVSEVDIVCTLPLTEYYDRNNQPNTENIERKKANFRKKITLNG
GDTFTIKDVKVMPESIPAGYEVLQELDELDSLLIIDLGGTTLDISQVMGKLSGISKIYGDSSLGVSLVTS
AVKDALSLARTKGSSYLADDIIIHRKDNNYLKQRINDENKISIVTEAMNEALRKLEQRVLNTLNEFSG
YTHVMVIGGGAELICDAVKKHTQIRDERFFKTNNSQYDLVNGMYLIGN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train729
MSANDFKPETWTSSANEALRVSIVGENAVQFSPLFTYPIYGDSEKIYGYKDLIIHLAFDSVTFKPYVNV
KYSAKLGDDNIVDVEKKLLSFLPKDDVIVRDEAKWVDCFAEERKTHNLSDVFEKVSEYSLNGEEFVV
YKSSLVDDFARRMHRRVQIFSLLFIEAANYIDETDPSWQIYWLLNKKTKELIGFVTTYKYWHYLGAK
SFDEDIDKKFRAKISQFLIFPPYQNKGHGSCLYEAIIQSWLEDKSITEITVEDPNEAFDDLRDRNDIQR
LRKLGYDAVFQKHSDLSDEFLESSRKSLKLEERQFNRLVEMLLLLNNS
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train730
MQLFDLSLEELKKYKPKKTARPDFSDFWKKSLEELRQVEAEPTLESYDYPVKGVKVYRLTYQSFGHS
KIEGFYAVPDQTGPHPALVRFHGYNASYDGGIHDIVNWALHGYATFGMLVRGQGGSEDTSVTPGGHA
LGWMTKGILSKDTYYYRGVYLDAVRALEVIQSFPEVDEHRIGVIGGSQGGALAIAAAALSDIPKVVVA
DYPYLSNFERAVDVALEQPYLEINSYFRRNSDPKVEEKAFETLSYFDLINLAGWVKQPTLMAIGLIDK
ITPPSTVFAAYNHLETDKDLKVYRYFGHEFIPAFQTEKLSFLQKHLLLST
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111
>DM_train731
MKKPNGTNGASSSLEPPPSTFQPLCHPLVEEVSKEVDGYFLQHWNFPNEKARKKFVAAGFSRVTCL

YFPKALDDRIHFACRLLTVLFLIDDLLEYMSFEEGSAYNEKLIPISRGDVLPDRSIPVEYIIYDLWESMR
AHDREMADEILEPVFLFMRAQTDRTRARPMGLGGYLEYRERDVGKELLAALMRFSMGLKLSPSEL
QRVREIDANCSKHLSVVNDIYSYEKELYTSKTAHSEGGILCTSVQILAQEADVTAEAAKRVLFVMCRE
WELRHQLLVARLSAEGLETPGLAAYVEGLEYQMSGNELWSQTTLRYSVVVD
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111000000000000000000000000000000000000000000
01100000000000000000000000000111
>DM_train733
MTDSPGGVAPASPVEDASDASLGQPEEGAPCQVVLQGAELNGILQAFAPLRTSLLDSLLVMGDRGILI
HNTIFGEQVFLPLEHSQFSRYRWRGPTAAFLSLVDQKRSLLSVFRANQYPDLRRVELAITGQAPFRTL
VQRIWTTTSDGEAVELASETLMKRELTSFVVLVPQGTPDVQLRLTRPQLTKVLNATGADSATPTTFE
LGVNGKFSVFTTSTCVTFAAREEGVSSSTSTQVQILSNALTKAGQAAAANAKTVYGENTHRTFSVVVD
DCSMRAVLRRLQVGGGTLKFFLTTPVPSLCVTATGPNAVSAVFLLKPQK
11111111111111111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111111111000000000000000000000000000000000
00000000000000000000000000000000
>DM_train734
LEADKCKEREEKIILVSSANEIDVRPCPLNPNEHKGTITWYKDDSKTPVSTEQASRIHQHKEKLWFVP
AKVEDSGHYYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKLPVAGDGGLVCPYMEFFKNEN
NELPKLQWYKDCKPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLE
ENKPTRPVIVSPANETMEVDLGSQIQLICNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPAN
KRRSTLITVLNISEIESRFYKHPFTCFAKNTHGIDAAYIQLIYPVTNFQK
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111
>DM_train735
RHRLFQLNREVDDLEQWIAEREVVAGSHELGQDYEHVTMLQERFREFARDTGNIGQERVDTVNHL
ADELINSGHSDAATIAEWKDGLNEAWADLLELIDTRTQILAASYELHKFYHDAKEIFGRIQDKHKKL
PEELGRDQNTVETLQRMHTTFEHDIQALGTQVRQLQEDAARLQAAYAGDKADDIQKRENEVLEAW
KSLLDACESRRVRLVDTGDKFRFFSMVRDLMLWMEDVIRQIEAQEKPRDVSSVELLMNNHQGIKAE
IDARNDSFTTCIELGKSLLARKHYASEEIKEKLLQLTEKRKEMIDKWEDRWEWLRL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001
>DM_train736
ADTYAATRYPVILVHGLAGTDKFANVVDYWYGIQSDLQSHGAKVYVANLSGFQSDDGPNGRGEQLLA

YVKQVLAATGATKVNLIGHSQGGLTSRYVAAVAPQLVASVTTIGTPHRGSEFADFVQDVLKTDPTGLS
STVIAAFVNVFGTLVSSSHNTDQDALAALRTLTTAQTATYNRNFPSAGLGAPGSCQTGAATETVGGSQ
HLLYSWGGTAIQPTSTVLGVTGATDTSTGTLDVANVTDPSTLALLATGAVMINRASGQNDGLVSRCSS
LFGQVISTSYHWNHLDEINQLLGVRGANAEDPVAVIRTHVNRLKLQGV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000011111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train737
SNAMTQSPIFLTPVFKEKIWGGTALRDRFGYSIPSESTGECWAISAHPKGPSTVANGPYKGKTLIELW
EEHREVFGGVEGDRFPLLTKLLDVKEDTSIKVHPDDYYAGENEEGELGKTECWYIIDCKENAEIIYGH
TARSKTELVTMINSGDWEGLLRRIKIKPGDFYYVPSGTLHALCKGALVLETQQNSDATYRVYDYDRL
DSNGSPRELHFAKAVNAATVPHVDGYIDESTESRKGITIKTFVQGEYFSVYKWDINGEAEMAQDESF
LICSVIEGSGLLKYEDKTCPLKKGDHFILPAQMPDFTIKGTCTLIVSHI
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train738
AKAPEQTVTEPVGSYARAERPQDFEGFVWRLDNDGKEALPRNFRTSADALRAPEKKFHLDAAYVPS
REGMDALHISGSSAFTPAQLKNVAAKLREKTAGPIYDVDLRQESHGYLDGIPVSWYGERDWANLGKS
QHEALADERHRLHAALHKTVYIAPLGKHKLPEGGEVRRVQKVQTEQEVAEAAGMRYFRIAATDHV
WPTPENIDRFLAFYRTLPQDAWLHFHCEAGVGRTTAFMVMTDMLKNPSVSLKDILYRQHEIGGFYY
GEFPIKTKDKDSWKTKYYREKIVMIEQFYRYVQENRADGYQTPWSVWLKSHPAKA
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train739
GSPGISGGGGGILDSMAEIVADKTVEVVKNAIETADGALDLYNKYLDQVIPWQTFDETIKELSRFKQE
YSQAASVLVGDIKTLLMDSQDKYFEATQTVYEWCGVATQLLAAYILLFDEYNEKKASAQKDILIKVLD
DGITKLNEAQKSLLVSSQSFNNASGKLLALDSQLTNDFSEKSSYFQSQVDKIRKEAYAGAAAGVVVGP
FGLIISYSIAAGVVEGKLIPELKNKLKSVQNFFTTLSNTVKQANKDIDAAKLKLTTEIAAIGEIKTETET
TRFYVDYDDLMLSLLKEAAKKMINTCNEYQKRHGKKTLFEVPEV
1111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111
>DM_train741
VSQIGLLLPLSGDGQILGTTIQSGFNDAKGNSTIPVQVFDTSMNSVQDIIAQAKQAGIKTLVGPLLKQN

LDVILADPAQIQGMDVLALNATPNSRAIPQLCYYGLSPEDEAESAANKMWNDGVRNPLVAMPQNDL
GQRVGNAFNVRWQQLAGTDANIRYYNLPADVTYFVQENNSNTTALYAVASPTELAEMKGYLTNIVP
NLAIYASSRASASATNTNTDFIAQMNGVQFSDIPFFKDTNSPQYQKLAKSTGGEYQLMRLYAMGADA
WLLINQFNELRQVPGYRLSGLTGILSADTNCNVERDMTWYQYQDGAIVPV
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train742
MSLEVKVGLAPMAGYTDSAFRTLAFEWGADFAFSEMVSAKGFLMNSQKTEELLPQPHERNVAVQIF
GSEPNELSEAARILSEKYKWIDLNAGCPVRKVVKEGAGGALLKDLRHFRYIVRELRKSVSGKFSVKTR
LGWEKNEVEEIYRILVEEGVDEVFIHTRTVVQSFTGRAEWKALSVLEKRIPTFVSGDIFTPEDAKRAL
EESGCDGLLVARGAIGRPWIFKQIKDFLRSGKYSEPSREEILRTFERHLELLIKTKGERKAVVEMRKFL
AGYTKDLKGARRFREKVMKIEEVQILKEMFYNFIKEVEGGSHHHHHH
1111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000111111111
>DM_train743
MPKPYVAINMAELKNEPKTFEMFASVGPKVCMVTARHPGFVGFQNHIQIGILPFGNRYGGAKMDMT
KESSTVRVLQYTFWKDWKDHEEMHRQNWSYLFRLCYSCASQMIWGPWEPIYEIIYANMPINTEMT
DFTAVVGKKFAEGKPLDIPVISQPYGKRVVAFAEHSVIPGKEKQFEDAIVRTLEMLKKAPGFLGAMVL
KEIGVSGIGSMQFGAKGFHQVLENPGSLEPDPNNVMYSVPEAKNTPQQYIVHVEWANTDALMFGM
GRVLLYPELRQVHDEVLDTLVYGPYIRILNPMMEGTFWREYLNEQAWRHPQFGG
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000001111111111
>DM_train744
EGGDFVVGMVTDSGDIDDKSFNQQVWEGISRFAQENNAKCKYVTASTDAEYVPSLSAFADENMGLV
VACGSFLVEAVIETSARFPKQKFLVIDAVVQDRDNVVSAVFGQNEGSFLVGVAAALKAKEAGKSAVGFI
VGMELGMMPLFEAGFEAGVKAVDPDIQVVVEVANTFSDPQKGQALAAKLYDSGVNVIFQVAGGTGN
GVIKEARDRRLNGQDVWVIGVDRDQYMDGVYDGSKSVVLTSMVKRADVAAERISKMAYDGSFPGG
QSIMFGLEDKAVGIPEENPNLSSAVMEKIRSFEEKIVSKEIVVPVRSARMMN
1100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train745
MEQLRGLYPPLAAYDSGWLDTGDGHRIYWELSGNPNGKPAVFIHGGPGGGISPHHRQLFDPERYKV

LLFDQRGCGRSRPHASLDNNTTWHLVADIERLREMAGVEQWLVFGGSWGSTLALAYAQTHPERVSE
MVLRGIFTLRKQRLHWYYQDGASRFFPEKWERVLSILSDDERKDVIAAYRQRLTSADPQVQLEAAKL
WSVWEGETVTLLPSRESASFGEDDFALAFARIENHYFTHLGFLESDDQLLRNVPLIRHIPAVIVHGRY
DMACQVQNAWDLAKAWPEAELHIVEGAGHSYDEPGILHQLMIATDRFAGK
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train746
MAELACFCYPHLENDSYKFIPFNNLAIKAMLTAKVDKKDMDKFYDSIIYGIAPPPQFKKRYNTNDNS
RGMNFETIMFTKVAMLICEALNSLKVTQANVSNVLSRVVSIRHLENLVIRKENPQDILFHSKDLLLKS
TLIAIGQSKEIETTITAEGGEIVFQNAAFTMWKLTYLEHQLMPILDQNFIEYKVTLNEDKPISDVHVK
ELVAELRWQYNKFAVITHGKGHYRIVKYSSVANHADRVYATFKSNVKTGVNNDFNLLDQRIIWQNW
YAFTSSMKQGNTLDVCKRLLFQKMKPEKNPFKGLSTDRKMDEVSQVGV
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111
>DM_train747
MSNQYGDKNLKIFSLNSNPELAKEIADIVGVQLGKCSVTRFSDGEVQINIEESIRGCDCYIIQSTSDPVN
EHIMELLIMVDALKRASAKTINIVIPYYGYARQDRKARSREPITAKLFANLLETAGATRVIALDLHAPQ
IQGFFDIPIDHLMGVPILGEYFEGKNLEDIVIVSPDHGGVTRARKLADRLKAPIAIIDKRRPRPNVAEV
MNIVGNIEGKTAILIDDIIDTAGTITLAANALVENGAKEVYACCTHPVLSGPAVERINNSTIKELVVTNS
IKLPEEKKIERFKQLSVGPLLAEAIIRVHEQQSVSYLFS
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111000000
00000000000000000000000000000000000000000000000000000000000000000000111
10000000000000000000000000000000
>DM_train749
GMPPVWTLPRLYQHFQGAIDLELWTIPYYLTVLYSIKDPTTVPYRLIQAAVYQEMLHAQLVSNIANAY
GYSPTLSAPEYVGTAVPHIDFDLDTPNPTSIFTPYSAELGPLDLTRVNTMCLIEYPEWRTQREPDLAD
DVTDYGSIGEFYDALRVGMEQLRGHVRGNQKQMDEFGPFYQNSPPLTVTESGDAGFLQALTLVDIIV
DQGEGQTQPVETIPTEFQNTADGFQDAWPHFQRFDFIRRMPNWPGVYTGVTDPPAGSPGAEAQAR
LIADFAGFLDILNGMFSGGGAPPAFGVQMAKLGGDILSCWKLGAVPRYS
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111110000000000000000000000000011111111
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train750
GMNPFQNSFGGHIPQDVAGKQGENVIFIVYNLTDSPDTVDKVKDVCANFSAMIRSMRNRFPDMQFS

CTMGFGADAWTRLFPDKGKPKELSTFSEIKGEKYTAVSTPGDLLFHIRAKQMGLCFEFASILDEKLKG
AVVSVDETHGFRYMDGKAIIGFVDGTENPAVDENPYHFAVIGEEDADFAGGSYVFVQKYIHDMVAW
NALPVEQQEKVIGRHKFNDVELSDEEKPGNAHNAVTNIGDDLKIVRANMPFANTSKGEYGTYFIGYA
STFSTTRRMLENMFIGSPAGNTDRLLDFSTAITGTLFFVPSYDLLGELGE
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train751
MIKLGIVMDPIANINIKKDSSFAMLLEAQRRGYELHYMEMGDLYLINGEARAHTRTLNVKQNYEEW
FSFVGEQDLPLADLDVILMRKDPPFDTEFIYATYILERAEEKGTLIVNKPQSLRDCNEKLFTAWFSDL
TPETLVTRNKAQLKAFWEKHSDIILKPLDGMGGASIFRVKEGDPNLGVIAETLTEHGTRYCMAQNYL
PAIKDGDKRVLVVDGEPVPYCLARIPQGGETRGNLAAGGRGEPRPLTESDWKIARQIGPTLKEKGLIF
VGLDIIGDRLTEINVTSPTCIREIEAEFPVSITGMLMDAIEARLQQQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011110000000000000000000000000000000000000000000
00000000000011111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train752
MPFTIDSARGIFPNTLAADVVPATIARFSQLNAEDQLALIWFAYLEMGKTLTIAAPGAASMQLAENA
LKEIQAMGPLQQTQAMCDLANRADTPLCRTYASWSPNIKLGFWYRLGELMEQGFVAPIPAGYQLSA
NANAVLATIQGLESGQQITVLRNAVVDMGFTAGKDGKRIAEPVVPPQDTASRTKVSIEGVTNATVLN
YMDNLNANDFDTLIELFTSDGALQPPFQRPIVGKENVLRFFREECQNLKLIPERGVTEPAEDGFTQI
KVTGKVQTPWFGGNVGMNIAWRFLLNPEGKIFFVAIDLLASPKELLNFA
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>DM_train753
GSACAEFSFHVPSLEELAGVMQKGLKDNFADVQVSVVDCPDLTKEPFTFPVKGICGKTRIAEVGGVPY
LLPLVNQKKVYDLNKIAKEIKLPGAFILGAGAGPFQTLGFNSEFMPVIQTESEHKPPVNGSYFAHVNP
ADGGCLLEKYSEKCHDFQCALLANLFASEGQPGKVIEVKAKRRTGPLNFVTCMRETLEKHYGNKPIG
MGGTFIIQKGKVKSHIMPAEFSSCPLNSDEEVNKWLHFYEMKAPLVCLPVFVSRDPGFDLRLEHTHF
FSRHGEGGHYHYDTTPDIVEYLGYFLPAEFLYRIDQPKETHSIGRD
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train754
MDSGRLAVIALGGNAIAGPGMDVSVESQTAAVKRASSIIADVLADGWRSVITHGNGPQVGYLSEAFE

ALPPERPRQPLYIATAMTQAWIGLLLKHSLEEELRRRGLNVLVPVVISRVLVDVSDPSFNNPSKPVGPI
YGREEAEELSRRYGWVFKRDPRGGFRRVVPSPRPVSIVDRDLIAEASAESPAVVALGGGGVPVVERPG
GVLEPVEAVVDKDLASSLLATQLNADLLVILTDVPGVAVNYGREGERWLRRAAASELKKYLREGHFP
PGSMGPKVEAAISFVERTGKPAVIGSLEEARQVLSLQAGTVVMLG
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train755
NAVLTWNNEILPNWETMWCSRKVRDLWWQGIPPSVRGKVWSLAIGNELNITHELFDICLARAKER
WRSLSTGGSEVENEDAGFSAADREASLELIKLDISRTFPNLCIFQQGGPYHDMLHSILGAYTCYRPDV
GYVQGMSFIAAVLILNLDTADAFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFFEENLPKLFAHF
KKNNLTPDIYLIDWIFTLYSKSLPLDLACRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFIHMAQF
LTRLPEDLPAEELFASIATIQMQSRNKKWAQVLTALQKDSREMEKG
00000000000000011000000000000000000000000000000000000000000011111
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111
>DM_train756
MKQVKAAFEANKRVYESVLLTFKGVDGYDVYNCSVPFSYKGKTHIYGRVEKRDIWAASHVRLFEETG
KDEFTAVPELSWELEDPYIAKINNEMIFGGTRVRKNGNAILSYYGYFYRGTPDELTYFTRGPGCMKDI
RVLQLQDGRLGVFSRPRVGRKASIGFVILNSIDELGAEVIAKAPPLDILSENAWGGVNQAYLLSSGKVG
CIGHYSYEDTNEKQQPQSVYVNYAFVLDPQSRAITGAKIIGTKSCYPPCEPKVPLLADCVFASGIVMRS
DGKVDLYSGVGDSHEGRITIDYPFKGHGTIIGDLHFPMASSL
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111100000000000000000000000000000000
00000000001110000000000000000000000000011000000000000000000000000001
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111
>DM_train757
GRVYYINSHGTLSRHENTLRFENAEVKKDIPVEDVEEIFVFAELSLNTKLLNFLASKGIPLHFFNYYGY
YTGTFYPRESSVSGHLLIKQVEHYLDAQKRLYLAKSFVIGSILNLEYVYKISADTYLNKVKETNSIPEL
MSVEAEFRKLCYKKLEEVTGWELEKRTKRPPQNPLNALISFGNSLTYAKVLGEIYKTQLNPTVSYLH
EPSTKRFSLSLDVAEVFKPIFVDNLIIRLIQENKIDKTHFSTELNMTFLNEIGRKVFLKAFNELLETTIF
YPKLNRKVSHRTLIKLELYKLIKHLLEEEVYLPLNYGGLK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111110000000000000000000000000000000000011000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train758
MTRTRSGSLAAGGLNWASLPLKLFAGGNAKFWHPADIDFTRDRADWEKLSDDERDYATRLCTQFIA

GEEAVTEDIQPFMSAMRAEGRLADEMYLTQFAFEEAKHTQVFRMWLDAVGISEDLHRYLDDLPAYR
QIFYAELPECLNALSADPSPAAQVRASVTYNHIVEGMLALTGYYAWHKICVERAILPGMQELVRRIGD
DERRHMAWGTFTCRRHVAADDANWTVFETRMNELIPLALRLIEEGFALYGDQPPFDLSKDDFLQYS
TDKGMRRFGTISNARGRPVAEIDVDYSPAQLEDTFADEDRRTLAAASA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111111111111111
>DM_train759
MARKKNTSDQSRSQAANTPIAGTYEGEYSVIELEADSYTTDGWLISINGVPSSHIVLGQPQALEFEYM
RWIATGARAFIDAHQDASKLRITHLGGGACTMARYFADVYPQSRNTVVELDAELARLSREWFDIPR
APRVKIRVDDARMVAESFTPASRDVIIRDVFAGAITPQNFTTVEFFEHCHRGLAPGGLYVANCGDHSD
LRGAKSELAGMMEVFEHVAVIADPPMLKGRRYGNIILMGSDTEFFSSNSTEASAITRELLGGGVPAQY
KDESWVRKFASGAQARHDGVSTLQMPSDTPQHPAETPEHSNTQP
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111111111111111
>DM_train760
GGNSKSRNDRTETVDKEVIKAPEFDADSAYQYIQVQADFGPRVPNTQAHKECGEYLAGQLEKFGAK
VYNQYADLIAYDGTILKSRNIIGAYKPESKKRILLCAHWDSRPYADNDPDPKNHHTPILGVNDGASGV
GVLLEIARQIQKEQPALGIDIVFFDSEDYGIPEFYDGKYKQDTWCLGSQYWARTPHVQNYNARYGILL
DMVGGKDATFYYEGYSARTARSEMKKIWKKAHELGYGKYFVKEDGGETVDDHIYVNKLARIPCVDII
NYDAGNPQSSFGSFWHTVNDTMENIDRNTLKAVGQTVMDVIYNEK
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111111100000000000000
00000000000000000000011111111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111111
11111111000000000000000000000000
>DM_train761
MLDNVLRIATRQSPLALWQAHYVKDKLMASHPGLVVELVPMVTRGDVILDTPLAKVGGKGLFVKEL
EVALLENRADIAVHSMKDVPVEFPQGLGLVTICEREDPRDAFVSNNYDSLDALPAGSIVGTSSLRRQC
QLAERRPDLIIRSLRGNVGTRLSKLDNGEYDAIILAVAGLKRLGLESRIRAALPPEISLPAVGQGAVGIE
CRLDDSRTRELLAALNHHETALRVTAERAMNTRLEGGCQVPIGSYAELIDGEIWLRALVGAPDGSQII
RGERRGAPQDAEQMGISLAEELLNNGAREILAEVYNGDAPA
00000000000000000000000000000000000000000001111111111111111100000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train762
MERIDSHVSPRYAQIPTFMRLPHDPQPRGYDVVVIGAPYDGGTSYRPGARFGPQAIRSESGLIHGVGI

DRGPGTFDLINCVDAGDINLTPFDMNIAIDTAQSHLSGLLKANAAFLMIGGDHSLTVAALRAVAEQHG
PLAVVHLDAHSDTNPAFYGGRYHHGTPFRHGIDEKLIDPAAMVQIGIRGHNPKPDSLDYARGHGVRV
VTADEFGELGVGGTADLIREKVGQRPVYVSVDIDVVDPAFAPGTGTPAPGGLLSREVLALLRCVGDLK
PVGFDVMEVSPLYDHGGITSILATEIGAELLYQYARAHRTQL
11111111000000000000000000000000000000000000000000000000000000000011
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111
>DM_train763
GSHMSKKFALTAEQRASFEKNGFIGPFDAYSPEEMKETWKRTRLRLLDRSAAAYQDLDAISGGTNIA
NYDRHLDDDFLASHICRPEICDRVESILGPNVLCWRTEFFPKYPGDEGTDWHQADTFANASGKPQII
WPENEEFGGTITVWTAFTDANIANGCLQFIPGTQNSMNYDETKRMTYEPDANNSVVKDGVRRGFF
GYDYRQLQIDENWKPDEASAVPMQMKAGQFIIFWSTLMHASYPHSGESQEMRMGFASRYVPSFVH
VYPDSDHIEEYGGRISLEKYGAVQVIGDETPEYNRLVTHTTRGKKFEAV
11111100000000000000000000000000000000000000000000001111111100000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train764
MNQKLKVAIIGSGNIGTDLMIKVLRNAKYLEMGAMVGIDAASDGLARAQRMGVTTTYAGVEGLIKLP
EFADIDFVFDATSASAHVQNEALLRQAKPGIRLIDLTPAAIGPYCVPVVNLEEHLGKLNVNMVTCGGQ
ATIPMVAAVSRVAKVHYAEIVASISSKSAGPGTRANIDEFTETTSKAIEVIGGAAKGKAIIIMNPAEPPLI
MRDTVYVLSAAADQAAVAASVAEMVQAVQAYVPGYRLKQQVQFDVIPESAPLNIPGLGRFSGLKTSV
FLEVEGAAHYLPAYAGNLDIMTSAALATAERMAQSMLNA
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train766
MSDLMQKENIVVMLTKKGFLKRLSQNEYKLQGTGGKGLSSFDLNDGDEIVIALCVNTHDYLFMISNE
GKLYLINAYEIKDSSRASKGQNISELINLGDQEEILTIKNSKDLTDDAYLLLTTASGKIARFESTDFKAVK
SRGVIVIKLNDKDFVTSAEIVFKDEKVICLSKKGSAFIFNSRDVRLTNRGTQGVCGMKLKEGDLFVKV
LSVKENPYLLIVSENGYGKRLNMSKISELKRGATGYTSYKKSDKKAGSVVDAIAVSEDDEILLVSKRSK
ALRTVAGKVSEQGKDARGIQVLFLDNDSLVSVSKFIK
11111110000000000000000000000000000000000000000000000000000000000000
00000000011111110000000000000000000000000000000000000000000000111100
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001
>DM_train767
HMYRNVPIWAQKWKPTIKALQSINVKDLKIDPSFLNIIPDDDLTKSVQDWVYATIYSIAPELRSFIELE

MKFGVIIDAKGPDRVNPPVSSQCVFTELDAHLTPNIDASLFKELSKYIRGISEVTENTGKFSIIESQTRD
SVYRVGLSTQRPRFLRMSTDIKTGRVGQFIEKRHVAQLLLYSPKDSYDVKISLNLELPVPDNDPPEKY
KSQSPISERTKDRVSYIHNDSCTRIDITKVENHNQNSKSRQSETTHEVELEINTPALLNAFDNITNDS
KEYASLIRTFLNNGTIIRRKLSSLSYEIFEGSKKVM
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001111111100000000000000000000000000000000000000
000000000000000001111111111
>DM_train768
MDTTVPTFSLAELQQGLHQDEFRRCLRDKGLFYLTDCGLTDTELKSAKDIVIDFFEHGSEAEKRAVT
SPVPTMRRGFTGLESESTAQITNTGSYSDYSMCYSMGTADNLFPSGDFERIWTQYFDRQYTASRAVA
REVLRATGTEPDGGVEAFLDCEPLLRFRYFPQVPEHRSAEEQPLRMAPHYDLSMVTLIQQTPCANG
FVSLQAEVGGAFTDLPYRPDAVLVFCGAIATLVTGGQVKAPRHHVAAPRRDQIAGSSQTSSVFFLRPN
ADFTFSVPLARECGFDVSLDGETATFQDWIGGNYVNIRRTSKA
000000000000000000000000000000000000000000000000000000000000000000000000
000000001111111111111111100000000000000000000000000000000000000000000000
000000000000000000000011111111111000000000000000001111100000000000000
000000000000000000000000000000011111111100000000000000000000000000000000
000000000000000000001111
>DM_train769
GQDYSGFTLTPSAQSPRLLELTFTEQTTKQFLEQVAEWPVQALEYKSFLRFRVAKILDDLCANQLQPL
LLKTLLNRAEGALLINAVGVDDVKQADEMVKLATAVAHLIGRSNFDAMSGQYYARFVVKNVDNSDS
YLRQPHRVMELHNDGTYVEEITDYVLMMKIDEQNMQGGNSLLLHLDDWEHLDNYFRHPLARRPM
RFAAPPSKNVSKDVFHPVFDVDQQGRPVMRYIDQFVQPKDFEEGVWLSELSDAIETSKGILSVPVPV
GKFLLINNLFWLHGRDRFTPHPDLRRELMRQRGYFAYASNHYQTHQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000001111100000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train770
AAASMDAVTAEKFSPASFLDKKETGVLHFVKYHGLGNDFILVDNRDSSEPKITQEQAAKLCDRNFGV
GADGVIFAMPGVNGTDYAMRIFNSDGSEPEMCGNGVRCFARFIAELENLQGKHSFTIHTGAGLIVPEI
QDDGQVKVDMGTPILKAQDVPTKLSGNKGEAVVEAELVVDGVSWNVTCVSMGNPHCITFGKKGGP
NLKVDDLNLPEIGPKFEHHEMFPARTNTEFVEVLSRSHLKMRVWERGAGATLACGTGACALVVAAV
LEGRADRKCTVDLPGGPLEIEWKQEDNHIYMTGPAEAVFYGSALL
111111111111111111111111000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train771
MANPLYHKHIISINDLSRDELELVLRTAASLKKTPQPELLKHKVIASCFFEASTRTRLSFETSIHRLGAS

VVGFSDSSNTSLGKKGETLADTMSVISTYVDAIVMRHPQEGASRLAAQFSGNVPIVNAGDGANQHPT
QTLLDLFTIQETQGRLDNINIAMVGDLKYGRTVHSLTQALAKFNGNHFFFIAPDALAMPAYILQMLE
EKEIEYSLHESLEEVVPELDILYMTRVQKERLDPSEYANVKAQFILRSSDLTGARDNLKVLHPLPRIDE
ITTDVDKTPYAYYFQQAGNGIFARQALLALVLNAELAL
11000000000000000000000000000000000000000000000000000000000000000000000000
00000011111111000000000000000000000000000000000000000000000000000110000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111111111111000000000000000000000000000000000000000
00000000000000000000000111
>DM_train772
EANAPGPVPGERQLAHSKMVPIPAGVFTMGTDDPQIKQDGEAPARRVTIDAFYMDAYEVSNTEFEK
FVNSTGYLTEAEKFGDSFVFEGMLSEQVKTNIQQAVAAAPWWLPVKGANWRHPEGPDSTILHRPD
HPVLHVSWNDAVAYCTWAGKRLPTEAEWEYSCRGGLHNRLFPWGNKLQPKGQHYANIWQGEFPV
TNTGEDGFQGTAPVDAFPPNGYGLYNIVGNAWEWTSDWWTVHHSVEETLNPKGPPSGKDRVKKG
GSYMCHRSYCYRYRCAARSQNTPDSSASNLGFRCAADRLPTMDRGSHHHHHH
11111111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111111111
>DM_train773
GHMTSRPSSDQTWQPIDGRVALIAPASAIATDVLEATLRQLEVHGVDYHLGRHVEARYRYLAGTVEQ
RLEDLHNAFDMPDITAVWCLRGGYGCGQLLPGLDWGRLQAASPRPLIGFSDISVLLSAFHRHGLPAI
HGPVATGLGLSPLSAPREQQERLASLASVSRLLAGIDHELPVQHLGGHKQRVEGALIGGNLTALACMA
GTLGGLHAPAGSILVLEDVGEPYYRLERSLWQLLESIDARQLGAICLGSFTDCPRKEVAHSLERIFGEY
AAAIEVPLYHHLPSGHGAQNRAWPYGKTAVLEGNRLRWGS
11111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train774
GPNANPIPEHFFAPYIDMSLSVHKPLVEYAKLTGTKYFTLAFILYSSVYNGPAWAGSIPLEKFVDEVRE
LREIGGEVIIAFGGAVGPYLCQQASTPEQLAEWYIKVIDTYNATYLDFDIEAGIDADKLADALLIVQRE
RPWVKFSFTLPSDPGIGLAGGYGIIETMAKKGVRVDRVNPMTMDYYWTPSNAENAIKVAENVFRQL
KQIYPEKSDEEIWKMIGLTPMIGVNDDKSVFTLEDAQQLVDWAIQHKIGSLAFWSVDRDHPGPTGE
VSPLHRGTNDPDWAFSHVFVKFMEAFGYTFSAQTSEASVPT
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111111
>DM_train776
MRLKDLGERALLARLAPLGYPPEAPLPPGDDAGGVWAEGRAWLLKTDGFLYREVALKGMGPFEVG

FRGVAATASDLLAKMGRPLGFTLGLFLPEDLEEGFVLELVRGAAEAAKRLGAFLLGGDTNRGVEVAL
TVSGYALAEAPLPRKALPGDLLYLAGDRWGRTGAAIRAHYEGRSLEGFPKIREAAFYPLPRLELLALS
GLLRGSLDSSDGLAETLWQLADLGVGVEVEALPLYPDVLAFAGSEEAALELVLYGGEEFEAVLVVPQE
GAAAVEARAKAKGLPLFRAGRVVAGEGVYLRGAPLPRKGYAHF
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111
>DM_train777
MSRKKMGLLVMAYGTPYKEEDIERYYTHIRRGRKPEPEMLQDLKDRYEAIGGISPLAQITEQQAHNL
EQHLNEIQDEITFKAYIGLKHIEPFIEDAVAEMHKDGITEAVSIVLAPHFSTFSVQSYNKRAKEEAEKL
GGLTITSVESWYDEPKFVTYWVDRVKETYASMPEDERENAMLIVSAHSLPEKIKEFGDPYPDQLHES
AKLIAEGAGVSEYAVGWQSEGNTPDPWLGPDVQDLTRDLFEQKGYQAFVYVPVGFVADHLEVLYDN
DYECKVVTDDIGASYYRPEMPNAKPEFIDALATVVLKKLGR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>DM_train778
GMQKQHNVVAGVDMGATHIRFCLRTAEGETLHCEKKRTAEVIAPGLVSGIGEMIDEQLRRFNARCH
GLVMGFPALVSKDKRTIISTPNLPLTAADLYDLADKLENTLNCPVEFSRDVNLQLSWDVVENRLTQQ
LVLAAYLGTGMGFAVWMNGAPWTGAHGVAGELGHIPLGDMTQHCACGNPGCLETNCSGMALRRW
YEQQPRNYPLRDLFVHAENAPFVQSLLENAARAIATSINLFDPDAVILGGGVMDMPAFPRETLVAMT
QKYLRRPLPHQVVRFIAASSSDFNGAQGAAILAHQRFLPQFCAKAP
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111
>DM_train779
MLDANKLQQAVDQAYTQFHSLNGGQNADYIPFLANVPGQLAAVAIVTCDGNVYSAGDSDYRFALESI
SKVCTLALALEDVGPQAVQDKIGADPTGLPFNSVIALELHGGKPLSPLVNAGAIATTSLINAENVEQR
WQRILHIQQQLAGEQVALSDEVNQSEQTTNFHNRAIAWLLYSAGYLYCDAMEACDVYTRQCSTLLN
TIELATLGATLAAGGVNPLTHKRVLQADNVPYILAEMMMEGLYGRSGDWAYRVGLPGKSGVGGGILA
VVPGVMGIAAFSPPLDEDGNSVRGQKMVASVAKQLGYNVFKG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>DM_train780
MAVEVLKEKWNSKVVEVTLGTGDKTVTLGGDSTLPFLTFEGEMPNPPRFALEVFDTPPTDWPDILV

EPFKDVINDPVAWAKKCVEYGADIVALRLVSAHPDGQNRSGAELAEVCKAVADAIDVPLMIIGCGVEE
KDAEIFPVIGEALSGRNCLLSSATKDNYKPIVATCMVHGHSVVASAPLDINLSKQLNIMIMEMNLAPN
RIIMDPLIGALGYGIEYSYSIIERMRLGALTGDKILAMPVVCFIGQEAWKAKEAKDPEVAEWGDYALR
AIHWETVTTVALIQAGGHLFVMRHPKSLAEVKEHLKRILK
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001
>DM_train781
GPLGSYGDAIPEVKAILEAKNEEELVTFTSRWSAEERKELRTQFQDTTGLEFIAFLKKCIKNGPYEDV
MALGWDCNISARVNVIKKAMKNVNDFRAIHDVVLIATPDERLKLAQAYKEKTGNDLLQDFVDQIPL
TSAASYLCHLAIRENRTPRGSVASDAEVLKHNLIDADEPDHEAVVRLIITSTADEYKEINHRFEVLTGK
SVQEAIETRYADKENARGLCIAHYYNLAPARAVAYAFHSAVETQNDDMAYEQAARITGLFHDLHKFA
WVHYACWGVMRDDILSRFQSKEANKVNFRDACLMFWKLAK
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001
>DM_train782
MRTHDDTWDIKTSVGTTAVMVAAARAAETDRPDALIRDPYAKLLVTNTGAGALWEAMLDPSMVA
KVEAIDAEAAAMVEHMRSYQAVRTNFFDTYFNNAVIDGIRQFVILASGLDSRAYRLDWPTGTTVYEI
DQPKVLAYKSTTLAEHGVTPTADRREVPIDLRQDWPPALRSAGFDPSARTAWLAEGLLMYLPATAQ
DGLFTEIGGLSAVGSRIAVETSPLHGDEWREQMQLRFRRVSDALGFEQAVDVQELIYHDENRAVVAD
WLNRHGWRATAQSAPDEMRRVGRWGDGVPMADDKDAFAEFVTAHRL
11111111111110000000000000000000000000000000000000000011111111111100
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111000000000000000000000000000000000000000
00000000000000000000000000
>DM_train783
MARYDLVDRLNTTFRQMEQELAIFAAHLEQHKLLVARVFSLPEVKKEDEHNPLNRIEVKQHLGNDA
QSLALRHFRHLFIQQQSENRSSKAAVRLPGVLCYQVDNLSQAALVSHIQHINKLKTTFEHIVTVESEL
PTAARFEWVHRHLPGLITLNAYRTLTVLHDPATLRFGWANKHIIKNLHRDEVLAQLEKSLKSPRSVA
PWTREEWQRKLEREYQDIAALPQNAKLKIKRPVKVQPIARVWYKGDQKQVQHACPTPLIALINRDN
GAGVPDVGELLNYDADNVQHRYKPQAQPLRLIIPRLHLYVAD
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train784
ASSSYYEQYHSLNEIYSWIEVMTERYPDMVEKIHIGSSYEKYPLYVLKVSKKEQRAKNAMWIDCGIH

AREWISPAFCLWFVGSVTYYYGKEKMHTNLLKHMDFYIMPVVNVDGYDYTWKKDRMWRKNRSL
HEKNACVGTDLNRNFASKHWCGEGASSSSCSEIYCGTYPESEPEVKAVADFLRRNIKHIKAYISMHSY
SQKIVFPYSYSRSRSKDHEELSLVAREAVFAMENIHRNIRYTHGSGSESLYLAPGGSDDWIYDLGIKYS
FTFELRDKGKYGFLLPESYIRPTCSEALVAVAKIASHVVKNV
11100000000000000000000000000000000000000000000000011111000000000000000
00000000000000000000111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train785
NILVIGTGAIGSFYGALLAKTGHCVSVVSRSDYETVKAKGIRIRSATLGDYTFRPAAVVRSAAELETKP
DCTLLCIKVVEGADRVGLLRDAVAPDTGIVLISNGIDIEPEVAAAFPDNEVISGLAFIGVTRTAPGEIWH
QAYGRLMLGNYPGGVSERVKTLAAAFEEAGIDGIATENITTARWQKCVWNAAFNPLSVLSGGLDTL
DILSTQEGFVRAIMQEIRAVAAANGHPLPEDIVEKNVASTYKMPPYKTSMLVDFEAGQPMETEVILG
NAVRAGRRTRVAIPHLESVYALMKLLELRTSKSLWGN
00000000000000000000000000000000000000000000000000000000000011111111100
00001111111000000000011100000000000000000011000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train786
CLGTIGPVTPLDASDFALDIRMPGVTPKESDTYFCMSMRLPVDEEAFVIDFKPRASMDTVHHMLLF
GCNMPSSTGSYWFCDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGETGSKYFVLQVHYGDISAF
RDNHKDCSGVSVHLTRVPQPLIAGMYLMMSVDTVIPPGEKVVNADISCQYKMYPMHVFAYRVHTH
HLGKVVSGYRVRNGQWTLIGRQNPQLPQAFYPVEHPVDVTFGDILAARCVFTGEGRTEATHIGGTSS
DEICNLYIMYYMEAKYALSFMTCTKNVAPDMFRTIPAEANIPIP
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111111000000000000000000
000000000000000000000000
>DM_train787
GSRPGPASQLPRFVRVNTLKTCSDDVVDYFKRQGFSYQGRASSLDDLRALKGKHFLLDPLMPELLVF
PAQTDLHEHPLYRAGHLILQDRASCLPAMLLDPPPGSHVIDACAAPGNKTSHLAALLKNQGKIFAFD
LDAKRLASMATLLARAGVSCCELAEEDFLAVSPSDPRYHEVHYILLDPSCSGSGMPSRQLEEPGAGTP
SPVRLHALAGFQQRALCHALTFPSLQRLVYSTCSLCQEENEDVVRDALQQNPGAFRLAPALPAWPHR
GLSTFPGAEHCLRASPETTLSSGFFVAVIERVEVPRRARG
11111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011111111
>DM_train788
MEKILIFGHQNPDTDTICSAIAYADLKNKLGFNAEPVRLGQVNGETQYALDYFKQESPRLVETAANEV

NGVILVDHNERQQSIKDIEEVQVLEVIDHHRIANFETAEPLYYRAEPVGCTATILNKMYKENNVKIEK
EIAGLMLSAIISDSLLFKSPTCTDQDVAAAKELAEIAGVDAEEYGLNMLKAGADLSKKTVEELISLDAK
EFTLGSKKVEIAQVNTVDIEDVKKRQAELEAVISKVVAEKNLDLFLLVITDILENDSLALAIGNEAAKV
EKAFNVTLENNTALLKGVVSRKKQVVPVLTDAMAE
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train789
MGSSHHHHHSSGENLYFQGHMKHGIYYSYWEHEWSAKFGPYIEKVAKLGFDIIEVAAHHINEYSDA
ELATIRKSAKDNGIILTAGIGPSKTKNLSSEDAAVRAAGKAFFERTLSNVAKLDIHTIGGALHSYWPID
YSQPVDKAGDYARGVEGINGIADFANDLGINLCIEVLNRFENHVLNTAAEGVAFVKDVGKNNVKVML
DTFHMNIEEDSFGDAIRTAGPLLGHFHTGESNRRVPGKGRMPWHEIGLALRDINYTGAVIMEPFVK
TGGTIGSDIKVWRDLSGGADIAKMDEDARNALAFSRFVLGG
11111111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train790
GSSGFKKLVSPSSAVEKCIVSVSYRGNNLNGLWLGDSIYCPRHVLGKFSGDQWGDVLNLANNHEFEV
VTQNGVTLNVVSRRLKGAVLILQTAVANAETPKYKFVKANCGDSFTIACSYGGTVIGLYPVTMRSNGT
IRASFLAGACGSVGFNIEKGVVNFFYMHHLELPNALHTGTDLMGEFYGGYVDEEVAQRVPPDNLVTN
NIVAWLYAAIISVKESSFSQPKWLESTTVSIEDYNRWASDNGFTPFSTSTAITKLSAITGVDVCKLLRTI
MVKSAQWGSDPILGQYNFEDELTPESVFNQVGGVRLQ
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00111111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111
>DM_train792
MSADYPRDLIGYGNNPPHPHWPGDARIALSFVLNYEEGGERCVLHGDKESEAFLSEMVAAQPLQGV
RHMSMESLYEYGSRAGVWRLLKLFKRRNVPLTVFAVAMAAQRNPEVIRAMVADGHEICSHGYRWID
YQYMDEAQEREHMLEAIRILTELTGQRPVGWYTGRTGPNTRRLVMEEGGFLYDSDTYDDDLPYWD
PASTAEKPHLVIPYTLDTNDMRFTQVQGFNNGEQFFQYLKDAFDVLYEEGATAPKMLSIGLHCRLIG
RPARMAALERFIQYAQSHDKVWFARREDIARHWHREHPFQETEA
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111
>DM_train793
MNVVIVRYGEIGTKSRQTRSWFEKILMNNIREALVTEEVPYKEIFSRHGRIIVKTNSPKEAANVLVRV

FGIVSISPAMEVEASLEKINRTALLMFRKKAKEVGKERPKFRVTARRITKEFPLDSLEIQAKVGEYILN
NENCEVDLKNYDIEIGIEIMQGKAYIYTEKIKGWGGLPIGTEGRMIGILHDELSALAIFLMMKRGVEVI
PVYIGKDDKNLEKVRSLWNLLKRYSYGSKGFLVVAESFDRVLKLIRDFGVKGVIKGLRPNDLNSEVSEI
TEDFKMFPVPVYYPLIALPEEYIKSVKERLGL
000000001111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111100000000000000
00000000000000000000
>DM_train794
ESTSLYKKAGLKPQVYHVDAFTSQPFRGNSAGVVFPADNLSEAQMQLIARELGHSETAFLLHSDDSD
VRIRYFTPTVEVPICGHATVAAHYVRAKVLGLGNCTIWQTSLAGKHRVTIEKHNDDYRISLEQGTPG
FEPPLEGETRAAIINALHLTEDDILPGLPIQVATTGHSKVMIPLKPEVDIDALSPDLNALTAISKKIGCN
GFFPFQIRPGKNETDGRMFSPAIGIVEDPVTGNANGPMGAWLVHHNVLPHDGNVLRVKGHQGRAL
GRDGMIEVTVTIRDNQPEKVTISGTAVILFHAEWAIEL
111111111100000000000000000000000000000000000000000000000000000000000000
000000000011000000000000000000000011000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train795
MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPRLAILQVGNRDDSNLYINVKLKAAEEIGIKAT
HIKLPRTTTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIAPEKDVDGLTSINAGRLAR
GDLNDCFIPCTPKGCLELIKETGVPIAGRHAVVVGRSKIVGAPMHDLLLWNNATVTTCHSKTAHLDE
EVNKGDILVVATGQPEMVKGEWIKPGAIVIDCGINYVPDDKKPNGRKVVGDVAYDEAKERASFITPV
PGGVGPMTVAMLMQSTVESAKRFLEKFKPGKWMIQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000011111111110000000000000000000000000000000000
00000000000001111111111
>DM_train796
APADPVPTVFFGDSYTANFGIAPVTNQDSERGWCFQAKENYPAVATRSLADKGITLDVQADVSCGGA
LIHHFWEKQELPFGAGELPPQQDALKQDTQLTVGSLGGNTLGFNRILKQCSDELRKPSLLPGDPVDG
DEPAAKCGEFFGTGDGKQWLDDQFERVGAELEELLDRIGYFAPDAKRVLVGYPRLVPEDTTKCLTAA
PGQTQLPFADIPQDALPVLDQIQKRLNDAMKKAAADGGADFVDLYAGTGANTACDGADRGIGGLLE
DSQLELLGTKIPWYAHPNDKGRDIQAKQVADKIEEILNR
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train797
IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAGQY

TCHKGGEVLSHSLLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWLTTISTDLTFS
VKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSVECQEDSACPAAEESLPIEVMVDAVHKLKYEN
YTSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVSWEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDRVF
TDKTSATVICRKNASISVRAQDRYYSSSWSEWASVPCS
000000000000000000000000000000000000000000000000000000000000000000111
111100000000000000000000000000000000000000000000000000000000000000000
000000000000001111111000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111111000000000000000011100
00000000000000000000
>DM_train798
GMGDSAGLPPIYADKPIELAPAKIITSFPVNTFLENLASAPDGTIFVTNHEVGEIVSITPDGNQQIHAT
VEGKVSGLAFTSNGDLVATGWNADSIPVVSLVKSDGTVETLLTLPDAIFLNGITPLSDTQYLTADSYRG
AIWLIDVVQPSGSIWLEHPMLARSNSESVFPAANGLKRFGNFLYVSNTEKMLLLRIPVDSTDKPGEP
EIFVEQTNIDDFAFDVEGNLYGATHIYNSVVRIAPDRSTTIIAQAEQGVIGSTAVAFGQTEGDCTAIYVV
TNGGMFLPPPTGVVPANVVRLEVGKPGYPLG
111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train799
MDLEMMLDEDYKEGICLIDFSQIALSTALVNFPDKEKINLSMVRHLILNSIKFNVKKAKTLGYTKIVL
CIDNAKSGYWRRDFAYYYKKNRGKAREESTWDWEGYFESSHKVIDELKAYMPYIVMDIDKYEADD
HIAVLVKKFSLEGHKILIISSDGDFTQLHKYPNVKQWSPMHKKWVKIKSGSAEIDCMTKILKGDKKD
NVASVKVRSDFWFTRVEGERTPSMKTSIVEAIANDREQAKVLLTESEYNRYKENLVLIDFDYIPDNIA
SNIVNYYNSYKLPPRGKIYSYFVKAGLSKLTNSINEF
111111111110000000000000000000000000000000000000000000000000000000000
000000000000000001111111110000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train800
MNNQCKTIAHVLRVNNGQELHVWETPPKENVPFKNNTILIASGFARRMDHFAGLAEYLSTNGFHV
FRYDSLHHVGLSSGSIDEFTMTTGKNSLCTVYHWLQTKGTQNIGLIAASLSARVAYEVISDLELSFLIT
AVGVVNLRDTLEKALGFDYLSLPIDELPNDLDFEGHKLGSEVFVRDCFEHHWDTLDSTLDKVANTS
VPLIAFTANNDDWVKQEEVYDMLAHIRTGHCKLYSLLGSSHDLGENLVVLRNFYQSVTKAAIAMDG
GSLEIDVDFIEPDFEQLTIATVNERRLKAEIENRTPEMA
111000000000000000000000000000000000000000000000000000000000000000000
001111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train801
GMDISGRDVETRLTLAREFMSGVDELPTVPDIVLRIAGKLNDPDVAIDEVADLLLQDQVLTARVVHL

ANSPLYSAARPISSIRDAVIYLGLDLLREAIFTCAIVDLFKTGKGPLNRSTLWAHSLGVARIAKLIAERT
GFLNPVNVYVAGLLHDVGEVFINFFRGKEFSQVVTLVDEEKITFGQAEERLFGTSHCEVGFALAKRW
SLNEFICDTILYHHDIEAVPYKQAAIVAMVAFADEYCTLRRLGFEGHKPVDSVRTLLENHPSWGVIRR
SLGGSDFDEKLIVAELDSSIVEIRAAVDELFLL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train802
MQRLSPGEFKTLISKERKSHFITPFALVYKTFCDLGYDQKNSDYFLNNPSEYIIAMRKNCWKEFEPFE
KEFTTRMLSYLIDEERIKDMSPYDAIRDFTMEYPTHIYDLALSNTQSRRSRAGKEFESILELLMMGA
GIPVDVQGAIGKSFFQKNQIGKLVDLVMPGVVQYTSNKRNTMLISAKTTLRERWQEVPEEVNRTGIR
EMYLATLDDSFSEETINILYEANVVVVTTVENKNFKYKNNNRVLTFEDMLQSAMELSRKWNNVSYT
DSEKEEIQQSILKQIEKYSDFPYVVNYYRNRLSALFD
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111
>DM_train803
VDYNAPLNPKSELFLDDWHIPKFNRFISFTLDVLIDKYKDIFKDFIKLPSRKFHPQYYYKIQQPMSIN
EIKSRDYEYEDGPSNFLLDVELLTKNCQAYNEYDSLIVKNSMQVVMLIEFEVLKAKNLKRNYLINSEV
KAKLLHYLNKLVDATEKKINQALLGASSPKNLDDKVKLSEPFMELVDKDELPEYYEIVHSPMALSIV
KQNLEIGQYSKIYDFIIDMLLVFQNAHIFNDPSALIYKDATTLTNYFNYLIQKEFFPELQDLNERGEINL
EFDKFEFENYLAIGGGGPAAAGALAISALDND
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111111111111111111
>DM_train804
MSSDKNGDILRPLSDSEVDELLDLYKVKFGIRNFHYLLLYNQRKWDRQLSEAQIPRNDLNHISLRKQ
FYTHRRGNFRTWGTYVSLHRDIVQSVSFFSWQPDGAAELWECLEQTQLIEWTQGALLTNVDLGFCN
RVKELAVSRGVTAIQPRQCFGMVLSHEDAFCAKVPDLPSEFEIRRLRAEDAAMVHDSWPNKGEGSL
TYLQALVRFNKSLGICRSDTGELIAWIFQNDFSGLGMLQVLPKAERRGLGGLLAAAMSREIARGEEIT
LTAWIVATNWRSEALLKRIGYQKDLVNEWIKLVPNSS
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train805
MRLGDAAELCYNLTSSYLQIAAESDSIIAQTQRAINTTKSILINETFPKWSPLNGEISFSYNGGKDCQV

LLLLYLSCLWEYYIVKLSQSQFDGKFHRFPLTKLPTVFIDHDDTFKTLENFIEETSLRYSLSLYESDRD
KCETMAEAFETFLQVFPETKAIVIGIRHTDPFGEHLKPIQKTDANWPDFYRLQPLLHWNLANIWSF
LLYSNEPICELYRYGFTSLGNVEETLPNPHLRKDKNSTPLKLNFEWEIENRYKHNEVTKAEPIPIADE
DLVKIENLHEDYYPGWYLVDDKLERAGRIKKK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011111111111111110000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train806
GTRPRRKKHDYRIALFGGSQPQSCRYFNPKDYSWTDIRCPFEKRRDAACVFWDNVVYILGGSQLFPI
KRMDCYNVVKDSWYSKLGPPTPRDSLAACAAEGKIYTSGGSEVGNSALYLFECYDTRTESWHTKPS
MLTQRCSHGMVEANGLIYVCGGSLGNNVSGRVLNSCEVYDPATETWTELCPMIEARKNHGLVFVKD
KIFAVGGQNGLGGLDNVEYYDIKLNEWKMVSPMPWKGVTVKCAAVGSIVYVLAGFQGVGRLGHILE
YNTETDKWVANSKVRAFPVTSCLICVVDTCGANEETLET
111111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000111111111
>DM_train807
LKQKILNRESGIITYGITPPKKNNTEEKIKEISQKHIERISGLDIDGLVIYDLQDEKERVSEERPFPFIETI
DPQIYSENYLKDLKIPKIIYRCVGKYTPDEFRRLTRPVSGQDAFSVFVGAASRNQSVLLKLSDAYKIRQ
DVNPDLLLGGVAIPERHMKNTDEHLRIIDKINKGCKYFITQAVYNVEAAKDFLSDYYYYSKNNNLKM
VPIIFTLTPCGSTKTLEFMKWLGISIPRWLENDLMNCEDILNKSVSLSKSIFNELMEFCLEKGIPIGCNI
ESVSVRKVEIEASIALAKDIKYIMKG
000000000000000000000000000000000000000000000000000011111111111111000
000000000000000000000000000000000000000000000000000011111000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>DM_train808
GAMERKANYAVDAYFREALRVSEPKAPKAPRPPKQPIVQDFQFFPPRLFELLDQEIYYFRKTVGYKV
PKNTELGSDATKVQREEQRKIDEAEPLTEEEIQEKENLLSQGFTAWTKRDFNQFIKANEKYGRDDID
NIAKDVEGKTPEEVIEYNAVFWERCTELQDIERIMGQIERGEGKIQRRLSIKKALDQKMSRYRAPFH
QLRLQYGNNKGKNYTEIEDRFLVCMLHKLGFDKENVYEELRAAIRASPQFRFDWFIKSRTALELQRR
CNTLITLIERENIELEEKERAEKKKKAPKGSVSAGS
111111111000000000111111111000000000000000000000000000000000000000000001
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000001111111111111
>DM_train810
TEEPDFTALCQKLKIPDHVRERAWLTWEKVSSVDGVLGGYIQKKKELWGICIFIAAVDLDEMSFTFT

ELQKNIEISVHKFFNLLKEIDTSTKVDNAMSRLLKKYDVLFALFSKLERTCELIYLTQPSSSISTEINSA
LVLKVSWITFLLAKGEVLQMEDDLVISFQLMLCVLDYFIKLSPPMLLKEPYKTAVIPINGSPRTPRRGQ
NRSARIAKQLENDTRIIEVLCKEHECNIDEVKNVYFKNFIPFMNSLGLVTSNGLPEVENLSKRYEEIYL
KNKDLDARLFLDHDKTLQTDSIDSFETQR
000000000000000000000000000000001111111111000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011100000000000000000000000000000000001111111111111111111111
111110000000000000000000000000000000001111111000000000000000000000000000
0000000000000000000
>DM_train811
EERPYAYVKISDGCDRGCTFCSIPSFKGSLRSRSIEDITREVEDLLKEGKKEIILVAQDTTSYGIDLYRKQ
ALPDLLRRLNSLNGEFWIRVMYLHPDHLTEEIISAMLELDKVVKYFDVPVQHGSDKILKLMGRTKSS
EELKKMLSSIRERFPDAVLRTSIIVGFPGETEEDFEELKQFVEEIQFDKLGAFVYSDEEGTVAFNLKEK
VDPEMAKRRQEELLLLQAEISNSRLDRFVGKKLKFLVEGKEGKFLVGRTWTEAPEVDGVVFVRGKG
KIGDFLEVVIKEHDEYDMWGSVILEHHHHHH
100000000001111111111111100000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001111111111000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000011111111
>DM_train812
KLFLFEFATCGERIEDSTAVEGLAMFKSAFDGFKNYYEITGFVRPEFSCLFTLPVDSMDSMEKYLEKS
DAFLIIAPEDDFLLYTLTKKAEKYCENLGSSSRAIAVTSDKWELYKKLRGEVQVPQTSLRPLDCKFIIK
PRTACAGEGIGFSDEVPDGHIAQEFIEGINLSVSLAVGEDVKCLSVNEQIINNFRYAGAVVPARISDEVK
REVVEEAVRAVECVEGLNGYVGVDIVYSDQPYVIEINARLTTPVVAFSRAYGASVADLLAGGEVKHVR
RQMVRKSKSAEKPYVSVGDYTLEIIDLD
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>DM_train813
MGPFDPEEMLFIFTRCMEDNLEDGANRLPMLAKWKEWINEPVDSPATQCFGKCVLVRTGLYDPVA
QKFDASVIQEQFKAYPSLGEKSKVEAYANAVKQLPSTNNDCAAVFKAYDPVHKAHKDTSKNLFHGN
KELTKGLYEKLGKDIRQKKQSYFEFCENKYYPAGSDKRQQLCQIRQYTVLDDALFKEHTDCVMKGIR
YITKDNQLDVEEVKRDFKLVNKDTKALEEVLNDCKSKEPSNAKEKSWHYYKCLVESSVKDDFKEAF
DYREVRSQIYAFNLPKNQAYSKPAVQSQVMEIDGKQCPQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000011110000000000
>DM_train814
MKITVLGCGALGQLWLTALCKQGHEVQGWLRVPQPYCSVNLVETDGSIFNESLTANDPDFLATSDLL

LVTLKAWQVSDAVKSLASTLPVTTPILLIHNGMGTIEELQNIQQPLLMGTTTHAARRDGNVIIHVAN
GITHIGPARQQDGDYSYLADILQTVLPDVAWHNNIRAELWRKLAVNCVINPLTAIWNCPNGELRHHP
QEIMQICEEVAAVIEREGHHTSAEDLRDYVMQVIDATAENISSMLQDIRALRHTEIDYINGFLLRRAR
AHGIAVPENTRLFEMVKRKESEYERIGTGLPRPW
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000011111111111
>DM_train815
GPVDSTDVRRITPKKLRELSDLLRTHLSSAATKQLDMGGVLSDLDTMLVALDKAEREGGVDKDQLK
SFNSLILKTYRVIEDYVKGREGDTKNSSTEVSPYHRSNFMLSIVEPSLQRIQKHLDQTHSFSDIGSLVR
AHKHLETLLEVLVTLSQQGQPVSSETYGFLNRLAEAKITLSQQLNTLQQQQESAKAQLSILINRSGSW
ADVARQSLQRFDSTRPVVKFGTEQYTAIHRQMMAAHAAITLQEVSEFTDDMRNFTVDSIPLLIQLGR
SSLMDEHLVEQREKLRELTTIAERLNRLEREWM
111111111000000000000000000000000000000000000000000011000000000000
000000000000001111111111111111100000000000000000000000000000000000000
000000000011100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001
>DM_train816
MSLTNDERILSWNETPSKPRYTPPPGAIDAHCHVFGPMAQFPFSPKAKYLPRDAGPDMLFALRDHL
GFARNVIVQASCHGTDNAATLDAIARAQGKARGIAVVDPAIDEAELAALHEGGMRGIRFNFLKRLVD
DAPKDKFLEVAGRLPAGWHVVIYFEADILEELRPFMDAIPVPIVIDHMGRPDVRQGPDGADMKAFR
RLLDSREDIWFKATCPDRLDPAGPPWDDFARSVAPLVADYADRVIWGTDWPHPNMQDAIPDDGLV
VDMIPRIAPTPELQHKMLVTNPMRLYWSEEMEGHHHHHH
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111
>DM_train817
MKGLKERQDRRLGAFLGLAVGDALGAQVEGLPKGTFPEVREMKGGGPHRLPPGFWTDDTSQALCL
AESLLQRGFDPKDQMDRYLRWYREGYRSATGVCFGLGHATRRALERYAATGDPYAGDEAGAGNGPL
MRLAPLVLAYENHPDLLSLARRAARTTHGAREALEATEVLAWLLREALRGAPKEALLALEPFRGAD
LHPALRRVVEGGFWEAPEEGPGYAPGTLAAALWAFARGRDFEEGMRLAVNLGGDADTVGAVYGQL
AGAYYGLGAIPGRWLRALHLREEMEALALALYRMSMASPRE
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111111100000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111
>DM_train819
TKIDAYAHILPAKYYQKMLSVEPNIPNMFPFIKIKTLMDLDERLTKWPDQNTKQVISLANISPEDFTD

SKTSAELCQSANEELSNLVDQHPGKFAGAVAILPMNNIESACKVISSIKDDENLVGAQIFTRHLGKSIA
DKEFRPVLAQAAKLHVPLWMHPVFDARKPDNNLVFSWEYELSQAMLQLVQSDLFQDYPNLKILVH
HAGAMVPFFSGRIDHILDEKHAQDFKKFYVDTAILGNTPALQLAIDYYGIDHVLFGTDAPFAVMPSG
ADQIITQAINDLTISDKDKQKIFHDNYYSLIKE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001
>DM_train820
MSQLLQDYLNWENYILRRVDFPTSYVVEGEVVRIEAMPRLYISGMGGSGVVADLIRDFSLTWNWEV
EVIAVKDYFLKARDGLLIAVSYSGNTIETLYTVEYAKRRRIPAVAITTGGRLAQMGVPTVIVPKASAPR
AALPQLLTAALHVVAKVYGIDVKIPEGLEPPNEALIHKLVEEFQKRPTIIAAESMRGVAYRVKNEFNE
NAKIEPSVEILPEAHHNWIEGSERAVVALTSPHIPKEHQERVKATVEIVGGSIYAVEMHPKGVLSFLRD
VGIASVKLAEIRGVNPLATPRIDALKRRLQ
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001
>DM_train821
MAAINTKVKKAVIPVAGLGTRMLPATKAIPKEMLPLVDKPLIQYVVNECIAAGITEIVLVTHSSKNSIE
NHFDTSFELEAMLEKRVKRQLLDEVQSICPPHVTIMQVRQGLAKGLGHAVLCAHPVVGDEPVAVILP
DVILDEYESDLSQDNLAEMIRRFDETGHSQIMVEPVADVTAYGVVDCKGVELAPGESVPMVGVVEKP
KADVAPSNLAIVGRYVLSADIWPLLAKTPPGAGDEIQLTDAIDMLIEKETVEAYHMKGKSHDCGNKL
GYMQAFVEYGIRHNTLGTEFKAWLEEEMGIKK
111110000000000000000000000000000000000000000000000000000000000000000000
000000000001111000000000000000000000011000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111100000000
000000000000000001100000000000000000000000000000000000000000000000000000
000000000000001111
>DM_train822
MTATAETSTGTKVVLGQNQYGKAEVRLVKVTRNTARHEIQDLNVTSQLRGDFEAAHTAGDNAHVVA
TDTQKNTVYAFARDGFATTEEFLLRLGKHFTEGFDWVTGGRWAAQQFFWDRINDHDHAFSRNKSE
VRTAVLEISGSEQAIVAGIEGLTVLKSTGSEFHGFPRDKYTTLQETTDRILATDVSARWRYNTVEVDF
DAVYASVRGLLLKAFAETHSLALQQTMYEMGRAVIETHPEIDEIKMSLPNKHHFLVDLQPFGQDNP
NEVFYAADRPYGLIEATIQREGSRADHPIWSNIAGFC
111111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000011111
>DM_train823
MRGSHHHHHHTDPHASSVPLEWPLSSQSGSYELRIEVQPKPHHRAHYETEGSRGAVKAPTGGHPV

VQLHGYMENKPLGLQIFIGTADERILKPHAFYQVHRITGKTVTTTSYEKIVGNTKVLEIPLEPKNNMR
ATIDCAGILKLRNADIELRKGETDIGRKNTRVRLVFRVHIPESSGRIVSLQTASNPIECSQRSAHELPM
VERQDTDSCLVYGGQQMILTGQNFTSESKVVFTEKTTDGQQIWEMEATVDKDKSQPNMLFVEIPEY
RNKHIRTPVKVNFYVINGKRKRSQPQHFTYHPV
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train824
TVNQAKIFAQTTKMLEFAKQLLETDDFSTLREAYYVSKNWGEARFDDQQASNNVIEDLEAALGVLR
EHLGFIPEEDGSSVVGPLKIIEETPEGELVVDCTKLGTGAYNIPNDVTKLNLETDADFILAIETSGMFA
RLNAERFWDKHNCILVSLKGVPARATRRFIKRLHEEHDLPVLVFTDGDPYGYLNIYRTLKVGSGKAI
HLADKLSIPAARLIGVTPQDIIDYDLPTHPLKEQDIKRIKDGLKNDDFVRSFPEWQKALKQMLDMGV
RAEQQSLAKYGLKYVVNTYLPEKIKDESTWLP
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111111100000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train825
GMSSKAEKDIKWGIAPIGWRNDDIPSIGKDNNLQQLLSDIVVAGFQGTEVGGFFPGPEKLNYELKLR
NLEIAGQWFSSYIIRDGIEKASEAFEKHCQYLKAINAPVAVVSEQTYTIQRSDTANIFKDKPYFTDKE
WDEVCKGLNHYGEIAAKYGLKVAYHHHMGTGIQTKEETDRLMANTDPKLVGLLYDTGHIAVSDGDY
MALLNAHIDRVVHVHFKDVRRSKEEECRAKGLTFQGSFLNGMFTVPGDGDLDFKPVYDKLIANNYK
GWIVVEAEQDPSKANPLEMAQIAHRYIKQHLIEN
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train826
MKPADLTNADRIALELGHAGRNAIPYLDDDRNADRPFTLNTYRPYGYTPDRPVVVVQHGVLRNGA
DYRDFWIPAADRHKLLIVAPTFSDEIWPGVESYNNGRAFTAAGNPRHVDGWTYALVARVLANIRAA
EIADCEQVYLFGHSAGGQFVHRLMSSQPHAPFHAVTAANPGWYTLPTFEHRFPEGLDGVGLTEDHL
ARLLAYPMTILAGDQDIATDDPNLPSEPAALRQGPHRYARARHYYEAGQRAAAQRGLPFGWQLQVV
PGIGHDGQAMSQVCASLWFDGRMPDAAELARLAGSQSA
11110000000000000000000000011100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011000000000000000000000000000000000000000000000000000000000000000
00000000000011111
>DM_train827
ATGDFPNKPLDIIVTFPPGGGTDMLARLIGNYLTESLGQTAVVENRPGASGNVGARLVADRAPDGYSL

LMVNSSFAVNPGVFRNLPFDPKKDFAAVINVAYVPSVFVVPAGSKYKTLGELMAAAKQTNTQVTYGS
CGNGTPQHLAGELLNVSAKTHMVHVPYKGCGPALNDVLGSQIGLAVVTASSAIPFIKAGKLQALAVTS
KERSALLPEVPTVAEQGVAGYELNQWHGLLVPGATPMAVRQKLYDGIAKVMQRDDVQKKLADLGYS
TASDGPEVFQKMVETDIDRFSALTKQIGLKVD
11110000000000000111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train828
QGLVPQGQTQVLQGGNKVPVVNIADPNSGGVSHNKFQQFNVANPGVVFNNGLTDGVSRIGGALTKN
PNLTRQASAILAEVTDTSPSRLAGTLEVYGKGADLIIANPNGISVNGLSTLNASNLTLTTGRPSVNGGR
IGLDVQQGTVTIERGGVNATGLGYFDVVARLVKLQGAVSSKQGKPLADIAVVAGANRYDHATRRATPI
AAGARGAAAGAYAIDGTAAGAMYGKHITLVSSDSGLGVRQLGSLSSPSAITVSSQGEIALGDATVQRGP
LSLKGAGVVSAGKLASGGGAVNVAGGGAV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111
>DM_train829
MPIIIDKDLPARKVLQEENIFVMTKERAETQDIRALKIAILNLMPTKQETEAQLLRLIGNTPLQLDVH
LLHMESHLSRNVAQEHLTSFYKTFRDIENEKFDGLIITGAPVETLSFEEVDYWEELKRIMEYSKTNVT
STLHICWGAQAGLYHHYGVQKYPLKEKMFGVFEHEVREQHVKLLQGFDELFFAVHSRHTEVRESDI
REVKELTLLANSEEAGVHLVIGQEGRQVFALGHSEYSCDTLKQEYERDRDKGLNIDVPKNYFKHDNP
NEKPLVRWRSHGNLLFSNWLNYYVYQETPYVL
11111111111111110000000000000000000000000000000000000000000000000000
00011111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111
>DM_train831
MTDDKKIRAAIVGYGNIGRYALQALREAPDFEIAGIVRRNPAEVPFELQPFRVVSDIEQLESVDVALVC
SPSREVERTALEILKKGICTADSFDIHDGILALRRSLGDAAGKSGAAAVIASGWDPGSDSVVRTLMQAI
VPKGITYTNFGPGMSMGHTVAVKAIDGVKAALSMTIPLGTGVHRRMVYVELLPGHNLEEVSAAIKA
DEYFVHDETHVIQVDEVDALIDMGHGVRMVRKGVSGSTQNQRMSFDMEINNPALTGQVLVCAARA
AMRQQPGAYTLQEIPVIDLLPGDREQWIGKLC
11110000000000000000000000000000000000011111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train832
MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSISLKFYKELQ

AHGADELLKRVYGSYLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEG
KEGENRAVIHYRDDETMYVESKKDRVTVVFSTVFKDDDDVVIGKVFMQEFKEGRRASHTAPQVLFS
HREPPLELKDTDAAVGDNIGYITFVLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAK
TSDFLKVLNRARPDAEKKEMKTITGKTFSSR
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
1111111111111111
>DM_train833
MAIPAFHPGELNVYSAPGDVADVSRALRLTGRRVMLVPTMGALHEGHLALVRAAKRVPGSVVVVSIF
VNPMQFGAGGDLDAYPRTPDDDLAQLRAEGVEIAFTPTTAAMYPDGLRTTVQPGPLAAELEGGPRP
THFAGVLTVVLKLLQIVRPDRVFFGEKDYQQLVLIRQLVADFNLDVAVVGVPTVREADGLAMSSRNRY
LDPAQRAAAVALSAALTAAAHAATAGAQAALDAARAVLDAAPGVAVDYLELRDIGLGPMPLNGSGRL
LVAARLGTTRLLDNIAIEIGTFAGTDRPDGYR
1000000000000000000000000000000000000000000000000000000000000000000000
0111111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000111111111111
>DM_train834
MEDLYPSRQNNQPKILKRKDPVIYTDRSKDNQAPITKEQLDSYEKNGFLQIKNFFSEDEVIDMQKAI
FELQDSIKDVASDKVIREPESNDIRSIFHVHQDDNYFQDVANDKRILDIVRHLLGSDVYVHQSRINYK
PGFKGKEFDWHSDFETWHVEDGMPRMRAISVSIALSDNYSFNGPLMLIPGSHNYFVSCVGETPDNN
YKESLKKQKLGVPDEESLRELTRIGGGISVPTGKAGSVTLFESNTMHGSTSNITPYPRNNLFMVYNSV
KNRLVEPFSGGEKRPEYIAVREKQPVYSAVN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000111111111111111100
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111
>DM_train835
MDLVEEILRLKEERNAIILAHNYQLPEVQDIADFIGDSLELARRATRVDADVIVFAGVDFMAETAKIL
NPDKVVLIPSREATCAMANMLKVEHILEAKRKYPNAPVVLYVNSTAEAKAYADVTVTSANAVEVVK
KLDSDVVIFGPDKNLAHYVAKMTGKKIIPVPSKGHCYVHQKFTLDDVERAKKLHPNAKLMIHPECIP
EVQEKADIIASTGGMIKRACEWDEWVVFTEREMVYRLRKLYPQKKFYPAREDAFCIGMKAITLKNIY
ESLKDMKYKVEVPEEIARKARKAIERMLEMSK
0000000000000000000000000000000000000000000000000000000000000000000000
0000001111111111110000000000000000000000000000000000000000000000000000
0000000000000000000001111111111000000000000000000000000000000000000000
0000000000000000000000000000000000000111100000000000000000000000000000
0000000000000011
>DM_train836
MKKSALEKLLSLIENLTNQEFKQATNSLISFIYKLNRNEVIELVRSIGILPEAIKPSSTQEKLFSKAGDIV

LAKAFQLLNLNSKPLEQRGNAGDVIALSKEFNYGLVADAKSFRLSRTAKNQKDFKVKALSEWREDK
DYAVLTAPFFQYPTTKSQIFKQSLDENVLLFSWEHLAILLQLDLEETNIFSFEQLWNFPKKQSKKTSV
SDAENNFMRDFNKYFMDLFKIDKDTLNQLLQKEINFIEERSLIEKEYWKKQINIIKNFTREEAIEALL
KDINMSSKIETIDSFIKGIKSNDRLYL
11000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train837
FVSSHRYVETMLVADQSMAEFHGSGLKHYLLTLFSVAARLYKHPSIRNSVSLVVVKILVIHDEQKGPEV
TSNAALTLRNFCNWQKQHNPPSDRDAEHYDTAILFTRQDLCGSQTCDTLGMADVGTVCDPSRSCSV
IEDDGLQAAFTTAHELGHVFNMPHDDAKQCASLNGVNQDSHMMASMLSNLDHSQPWSPCSAYMI
TSFLDNGHGECLMDKPQNPIQLPGDLPGTSYDANRQCQFTFGEDSKHCPDAASTCSTLWCTGTSGG
VLVCQTKHFPWADGTSCGEGKWCINGKCVNKLVPR
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111000000011100000000000000000000000000000000000
00000000000000000000000000000000000011111000000000111100000000000000000000000
0000000000000001
>DM_train838
MMPEGKIIKALSGFYYVLDESEDSDKVIQCRGRGIFRKNKITPLVGDYVVYQAENDKEGYLMEIKERT
NELIRPPICNVDQAVLVFSAVQPSFSTALLDRFLVLVEANDIQPIICITKMDLIEDQDTEDTIQAYAEDY
RNIGYDVYLTSSKDQDSLADIIPHFQDKTTVFAGQSGVGKSSLLNAISPELGLRTNEISEHLGRGKHTT
RHVELIHTSGGLVADTPGFSSLEFTDIEEEELGYTFPDIREKSSSCKFRGCLHLKEPKCAVKQAVEDGE
LKQYRYDHYVEFMTEIKDRKPRY
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111111111111111110000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train839
GLDVAISQNGFFRLVDSNGSVFYSRNGQFKLDENRNLVNMQGMQLTGYPATGTPPTIQQGANPAPIT
IPNTLMAAKSTTTASMQINLNSTDPVPSKTPFSVSDADSYNKKGTVTVYDSQGNAHDMNVYFVKTK
DNEWAVYTHDSSDPAATAPTTASTTLKFNENGILESGGTVNITTGTINGATAATFSLSFLNSMQQNT
GANNIVATNQNGYKPGDLVSYQINNDGTVVGNYSNEQEQVLGQIVLANFANNEGLASQGDNVWAAT
QASGVALLGTAGSGNFGKLTNGALEASNVDLSK
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
000000000111111
>DM_train840
MIKQRTLKNIIRATGVGLHSGEKVYLTLKPAPVDTGIVFSRTDLDPVVEIPARAENVGETTMSTTLVK

GDVKVDTVEHLLSAMAGLGIDNAYVELSASEVPIMDGSAGPFVFLIQSAGLQEQEAAKKFIRIKREVS
VEEGDKRAVFVPFDGFKVSFEIDFDHPVFRGRTQQASVDFSSTSFVKEVSRARTFGFMRDIEYLRSQ
NLALGGSVENAIVVDENRVLNEDGLRYEDEFVKHKILDAIGDLYLLGNSLIGEFRGFKSGHALNNQLL
RTLIADKDAWEVVTFEDARTAPISYMRP
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000011111111111
>DM_train841
MEFKLQELNLTNQDTGPYGITVSDKGKVWITQHKANMISCINLDGKITEYPLPTPDAKVMCLTISSD
GEVWFTENAANKIGRITKKGIIKEYTLPNPDSAPYGITEGPNGDIWFTEMNGNRIGRITDDGKIREYE
LPNKGSYPSFITLGSDNALWFTENQNNAIGRITESGDITEFKIPTPASGPVGITKGNDDALWFVEIIGN
KIGRITTSGEITEFKIPTPNARPHAITAGAGIDLWFTEWGANKIGRLTSNNIIEEYPIQIKSAEPHGICF
DGETIWFAMECDKIGKLTLIKDNME
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000011111
>DM_train842
CVIFPVEIDVSQTIIRDCQVDKQTRELVYINKIMNTQLTKPVLMMFNISGPIRSVTRKNNNLRDRIKSK
PDEQFDQLEKDYSDQMDGFHDSIKYFKDEHYSVSCQNGSVLKSKFAKILKSHDYTDKKSIEAYEKYC
LPKLVDERNDYYVAVCVLKPGFENGSNQVLSFEYNPIGNKVIVPFAHEINDTGLYEYDVVAYVDSVQF
DGEQFEEFVQSLILPSSFKNSEKVLYYNEASKNKSMIYKALEFTTESSWGKSEKYNWKIFCNGFIYDK
KSKVLYVKLHNVTSALNKNVILNTIK
111100000000000000000000000000000000000000000000000000000000000000000000
000000000011111111000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001110000000000011111111000000000000000000000000000000
00000000000000
>DM_train843
MLIDPIELYRYPEKWIKDRDAEKKVRSGLYILTEDGYLRRGITTGTTASAAAVAAIASLKEKVEKVKVS
TPAGVDVEVEVEAEKGFARVRKFSGDHEFDVTNGIIFEAEVCETSGIFFGRGVGVKAGEKAVSRSAKL
QILENFIKASREFNFSGGVRISVPDGEEVAKKTGNEKVGIKGGISILGTTGFVEPWCKKLVETKLKIAM
QYHRIAITTGRKAWLYARKKFPEYQPFVFGVHIDEALKHPGEKIIVGFPGLLKIWAGSRDRIEERARE
EGVRVVVIEDDMDSWVWDVQGTDH
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000001111
11111111111111
>DM_train844
SDESFEFDVSVIGLGAMGTIMAQVLLKQGKRVAIWNRSPGKAAALVAAGAHLCESVKAALSASPATIF

VLLDNHATHEVLGMPGVARALAHRTIVDYTTNAQDEGLALQGLVNQAGGHYVKGMIVAYPRNVGH
RESHSIHTGDREAFEQHRALLEGLAGHTVFLPWDEALAFATVLHAHAFAAMVTFFEAVGAGDRFGL
PVSKTARLLLETSRFFVADALEEAVRRLETQDFKGDQARLDVHADAFAHIAQSLHAQGVWTPVFDA
VCQVVQRAAAMGYGDQDIAATTKSFAREQEEGH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000001111111
>DM_train845
MTDTQYIGRFAPSPSGELHFGSLIAALGSYLQARARQGRWLVRIEDIDPPREVPGAAETILRQLEHYG
LHWDGDVLWQSQRHDAYREALAWLHEQGLSYYCTCTRARIQSIGGIYDGHCRVLHHGPDNAAVRIR
QQHPVTQFTDQLRGIIHADEKLAREDFIIHRRDGLFAYNLAVVVDDHFQGVTEIVRGADLIEPTVRQI
SLYQLFGWKVPDYIHLPLALNPQGAKLSKQNHAPALPKGDPRPVLIAALQFLGQQAEAHWQDFSVE
QILQSAVKNWRLTAVPESAIVNSTFSNASC
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111111111110000000000000000000000000000000000000000000000
00000111111111
>DM_train846
MGSDKIHHHHHHMITFIGHVSKDVNVVDGKREIAYGGGVVMGAITSSLLGVKTKVITKCTREDVSKF
SFLRDNGVEVVFLKSPRTTSIENRYGSDPDTRESFLISAADPFTESDLAFIEGEAVHINPLWYGEFPED
LIPVLRRKVMFLSADAQGFVRVPENEKLVYRDWEMKEKYLKYLDLFKVDSREAETLTGTNDLRESC
RIIRSFGAKIILATHASGVIVFDGNFYEASFRSWSLEGRTGRGDTCTAAFLVGFVFKKMSIEKATKFAA
AVTSVKMRHPGPLRREDLEAISGDQYF
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111
>DM_train847
GAMVVSPAGADRRIPTWASRVVSGLARDRPVVVTKEDLTQRLTEAGCGRDPDSAIRELRRIGWLVQL
PVKGTWAFIPPGEAAISDPYLPLRSWLARDQNAGFMLAGASAAWHLGYLDRQPDGRIPIWLPPAKR
LPDGLASYVSVVRIPWNAADTALLAPRPALLVRRRLDLVAWATGLPALGPEALLVQIATRPASFGPWA
DLVPHLDDLVADCSDERLERLLSGRPTSAWQRASYLLDSGGEPARGQALLAKRHTEVMPVTRFTTA
HSRDRGESVWAPEYQLVDELVVPLLRVIGKA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111000000000000
00000000000001
>DM_train848
MSERIVPSGDVELWSDDFGDPADPALLLVMGGNLSALGWPDEFARRLADGGLHVIRYDHRDTGRST

TRDFAAHPYGFGELAADAVAVLDGWGVDRAHVVGLSMGATITQVIALDHHDRLSSLTMLLGGGLDI
DFDANIERVMRGEPTLDGLPGPQQPFLDALALMNQPAEGRAAEVAKRVSKWRILSGTGVPFDDAEY
ARWEERAIDHAGGVLAEPYAHYSLTLPPPSRAAELREVTVPTLVIQAEHDPIAPAPHGKHLAGLIPTA
RLAEIPGMGHALPSSVHGPLAEVILAHTRSAA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train849
MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGH
VADFVLDDLRRYSVDLRYTVFQTTGSVPIATVIINEASGSRTILYYDRSLPDVSATDFEKVDLTQFKWI
HIEGRNASEQVKMLQRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQS
AEEALRGLYGRVRKGAVLVCAWAEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQ
GRSVQEALRFGCQVAGKKCGLQGFDGIV
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train850
MPAPEAPTSTLPPERPLTNLQQQIQQLVSRQPNLTAGLYFFNLDSGASLNVGGDQVFPAASTIKFPILV
AFFKAVDEGRVTLQERLTMRPDLIAPEAGTLQYQKPNSQYAALEVAELMITISDNTATNMIIDRLGGA
AELNQQFQEWGLENTVINNPEPDMKGTNTTSPRDLATLMLKIGQGEILSPRSRDRLLDIMRRTVTN
TLLPAGLGKGATIAHKTGDIGIVVGDAGMVDMPNGQRYVAAMMVKRPYNDPRGSELIRQVSRMVYQ
AFEKLSPPEQKLISEEDLNSAVDHHHHHH
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
11111111111111
>DM_train851
GASTVEKELLRSRRLENSIIEQKGTMRCYAYVMEQNLPENLLFDYENGVITQGLSEHVYKFNRVIPHL
KVSEDKFFTQEYSVYHDMCLNQKKNFNLISLSTTPHGSLRESLIKFLAEKDTIYQKQYVITLQFVFLS
DDEFSQDMLLDYSHNDKDSIKLKFEKHSISLDSKLVIIENGLEDLPLNFSCDEHPNLPHSGMGIIKVQ
FFPRDSKSDGNNDPVPVDFYFIELNNLKSIEQFDKSIFKKESCETPIALVLKKLISDTKSFFLLNLNDS
KNVNKLLTISEEVQTQLCKRKKKLT
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111000000000000000000000000000000001111111000000000000000111
11110000000000000000000000000010000000000000000000000000000000000000
00000001111111
>DM_train852
ELSENFKKLMKYPYRPCTCTRCIEEQRVSAWFDERFNRSMQPLLTAKNAHLEEDTYKWWLRLQRE

KQPNNLNDTIRELFQVVPGNVDPLLEKRLVSCRRCAVVGNSGNLKESYYGPQIDSHDFVLRMNKAPT
EGFEADVGSKTTHHFVYPESFRELAQEVSMILVPFKTTDLEWVISATTTGRISHTYVPVPAKIKVKKE
KILIYHPAFIKYVFDRWLQGHGRYPSTGILSVIFSLHICDEVDLYGFGADSKGNWHHYWENNPSAGAF
RKTGVHDGDFESNVTTILASINKIRIFKGR
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111111100000000000000000
>DM_train853
AITKPLLAATLENIEDVQFPCLATPKIAGIRSVKQTQMLSRTFKPIRNSVMNRLLTELLPEGSDGEISIE
GATFQDTTSAVMTGHKMYNAKFSYYWFDYVTDDPLKKYIDRVEDMKNYITVHPHILEHAQVKIIPL
IPVEINNITELLQYERDVLSKGFEGVMIRKPDGKYKFGRSTLKEGILLKMKQFKDAEATIISMTALFKN
TNTKTKDNFGYSKRSTHKSGKVEEDVMGSIEVDYDGVVFSIGTGFDADQRRDFWQNKESYIGKMVK
FKYFEMGSKDCPRFPVFIGIRHEEDR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111
11111111110000000000000000000000000000000000000000000001111100
0000000011111
>DM_train854
LEVKPEINFVNIGERCNVAGSRKFLRLVNEKKYDEALSIARQQVEDGALVIDVNMDDGLLDARTEMT
TFLNLIMSEPEIARVPVMIDSSKWEVIEAGLKCLQGKSIVNSISLKEGEEVFLEHARIIKQYGAATVVM
AFDEKGQADTAARKIEVCERAYRLLVDKVGFNPHDIIFDPNVLAVATGIEEHNNYAVDFIEATGWIRK
NLPGAHVSGGVSNLSFSFRGNNYIREAMHAVFLYHAIQQGMDMGIVNPGTSVLYSDIPADTLEKIEDV
VLNRRPDAAERLIELAEALKETMGG
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000010000000000000000000000000000000
0000000011111
>DM_train855
MPIKETDKEVVLTHPADETTSVHILKYGATVYSWKLKSEEQLWLSTAAKLDGSKPVRGGIPLVFPVF
GKNSTDEHLSKLPQHGLARNSTWEFLGQTKENPPTVQFGLKPEIANPELTKLWPMDYLLILTVELGS
DYLKTAIEVENTSSSKELKFNWLFHTYFRIEDIEGTMVSNLAGMKLYDQLLKESYVDKHPVVTFNQE
TDVIYQNVSAERAIQIVDKGVQIHTLKRYNLPDTVVWNPWIEKSQGMADFEPKTGYQQMICIEPGHV
HDFISLAPGKKWNAYQLLCKEELKYQAIQ
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000011111111
>DM_train856
SRVENSNGQSQPAATSKTVKDNAEIYYDDDDSDRFYFHVWGGEDIHVGLYKEPVDQDEIREASLRT

DEWLASELAMTGVLQRQAKGLDLGAGYGGAARFLVRKFGVSIDCLNIAPVQNKRNEEYNNQAGLAD
NITVKYGSFLEIPCEDNSYDFIWSQDAFLHSPDKLKVFQECARVLKPRGVMAITDPMKEDGIDKSSIQ
PILDRIKLHDMGSLGLYRSLAKECGLVTLRTFSRPDSLVHHYSKVKAELIKRSSEIASFCSPEFQANMK
RGLEHWIEGGRAGKLTWGGMLFRKSDKI
11111111111111111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011100000000000000000000000000
0000000000000
>DM_train857
MEGGMEKGTFQIKTGFAEMFKGGVIMDVTTPEQAVIAEEAGAVAVMALERVPADIRAQGGVARMSD
PKIIKEIMAAVSIPVMAKVRIGHFVEAMILEAIGVDFIDESEVLTPADEEHHIDKWKFKVPFVCGARN
LGEALRRIAEGAAMIRTKGEAGTGNVVEAVRHARTMWKEIRYVQSLREDELMAYAKEIGAPFELVK
WVHDHGRLPVVNFAAGGIATPADAALMMHLGMDGVFVGSGIFKSGDPRKRARAIVRAVAHYNDPE
VLAEVSEDLGEPMVGINLDQLKEEERLAKRGW
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111111
1111111111111
>DM_train858
EPVQVFTDDLGRKVTVPAHPKRIVSLHDLDITIPLIELGVPPVASHGRTRPDGSHFIRSGALLTGVDFD
NSSIAFIGTADIDIEAIVAAKPDLIITEPTRNTPIERLEKIAPTVSIDHLKGGAPEIYRKLAELTGTQSQL
AILERRYQAQINALKATLDSQKITVSVIQANQGKINVMHSYHSLGRVLRDAGFRFPPLIESIPEGGRMD
VSAERLPELDADFVFATWRGDTGGKPQDELATMEKVMPGWCQFLTACRSGRYVLISREEAISNSFAS
LGLMAAQIQSQIAGRPLPEAK
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000111
>DM_train859
MRERIREHLSSEESVGLLFSGCTGINDKTLGARGGEVIMVTSGSGMGKSTFVRQQALQWGTAMGKK
VGLAMLEESVEETAEDLIGLHNRVRLRQSDSLKREIIENGKFDQWFDELFGNDTFHLYDSFAEAETD
RLLAKLAYMRSGLGCDVIILDHISIVVSASGESDERKMIDNLMTKLKGFAKSTGVVLVVICHLKNPDK
GKAHEEGRPVSITDLRGSGALRQLSDTIIALERNQQGDMPNLVLVRILKCRFTGDTGIAGYMEYNKET
GWLEPSSYSGEEESHSESTDWSNDTDF
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111000000000000000000000000000011111111111111
11111000000000000000011111100000000000000000000000000000001111111
111111111111
>DM_train860
MSFFHASQRDALNQSLAEVQGQINVSFEFFPPRTSEMEQTLWNSIDRLSSLKPKFVSVTYGANSGER

DRTHSIIKGIKDRTGLEAAPHLTCIDATPDELRTIARDYWNNGIRHIVALRGDLPPGSGKPEMYASDLV
TLLKEVADFDISVAAYPEVHPEAKSAQADLLNLKRKVDAGANRAITQFFFDVESYLRFRDRCVSAGID
VEIIPGILPVSNFKQAKKLADMTNVRIPAWMAQMFDGLDDDAETRKLVGANIAMDMVKILSREGVK
DFHFYTLNRAEMSYAICHTLGVRPGL
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000011
>DM_train863
MWRIELKHAVNWELKMKFFVLPELPTPDVVESGVWRRAIVLDGRAVAVMAYPESERTIVVEGNFE
NREWEAVRRKLVEYLGLQNPEELYRFMDGDEKLRMLKNRFYGFGRAGLMSMSVFEGIAKAIIQQQI
SFVVAEKLAAKIVGRFGDEVEWNGLKFYGFPTQEAILKAGVEGLRECGLSRRKAELIVEIAKEENLEE
LKEWGEEEAYEYLTSFKGIGRWTAELVLSIALGKNVFPADDLGVRRAVSRLYFNGEIQSAEKVREIAR
ERFGRFARDILFYLFLYDRFFSKKTELV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000111100
>DM_train865
SKLGYIPNQAARTLITNKTLTIGLIQKSSAPEIRQNPFNSDVLNGINQACNVRGYSTRMTVSENSGDLY
HEVKTMIQSKSVDGFILLYSLKDDPIEHLLNEFKVPYLIVGKSLNYENIIHIDNDNIDAAYQLTQYLYHL
GHRHILFLQESGHYAVTEDRSVGFKQYCDDVKISNDCVVIKSMNDLRDFIKQYCIDASHMPSVIITSDV
MLNMQLLNVLYEYQLRIPEDIQTATFNTSFLTENATPSQTSVNINPDVLGFTAGNTIIDVLRNETISFR
EKLISTQIVERVSTTKI
11111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111000000000000
00000000000000000000000000000000000000000000000000000111111100000000
0000000000
>DM_train866
MEARNMTPFTYFSLPMQKLFLRNQAAVRNKPYAKYFRSEMRVPLSAVRKIQQGPMALEDTLTPSIE
DINRLLEPDFVSEESGYALLPGPMAYVQSRKFFPGCTAQMFKWWFIWHPAESERYTLWFPYAHVSN
PCVHHQRLRDESLSFEERLYGNTFCASEYVGDRLMHLHIDFQQPASLGLNTDLYREAKIDGSVSALM
SLADHPEVPVSLMVHLFKEVPDGMYLTSRYWVGAHPSMARFPGAEKAASLLKENGFGEAELETLAY
EFAVHDMCEFNHLASFLPDLYREFGTPAA
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000111
>DM_train867
MGAPPLGPTIIPPVRTLWLRDRALDLDRVRLLGVLNLTPDSFSDGGRYLDPERALERAREMVAEGA

DILDLGAESTRPGAAPVPVEEEKRRLLPVLEAVLSLGVPVSVDTRKPEVAEEALKLGAHLLNDVTGL
RDERMVALAARHGVAAVVMHMPVPDPATMMAHARYRDVVAEVKAFLEAQARRALSAGVPQVVLD
PGFGFGKLLEHNLALLRRLDEIVALGHPVLVGLSRKRTIGELSGVEDPAQRVHGSVAAHLFAVMKGVR
LLRVHDVRAHREALGVWEALYGGDRPSRA
11111111111111000000000000000000000000011111111111000000000000000000000
00001111111100000000000000000000000000000000000000000000000000000000000
00000000000000011111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0011111111
>DM_train868
MVLRDKMILLDENTKAIVQGITGRQGSFHTKKMLECGTKIVGGVTPGKGGQNVHGVPVFDTVKEAV
KETDANASVIFVPAPFAKDAVFEAIDAGIELIVVITEHIPVHDTMEFVNYAEDVGVKIIGPNTPGIASPK
VGKLGIIPMEVLKEGSVGMVSRSGTLTYEIAHQIKKAGFGVSTCVGIGGDPIVGLRYKEVLDLFEKDDE
TEAIVMIGEIGGGAEEEAAKFIEKMKKPVIGYIAGQSAPEGKRMGHAGAIVEKGKGTAESKMKALEEA
GAYVAKNISDIPKLLAGILGK
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111111111111110000000000000000000000000
0000000001
>DM_train869
PVYEHLLPVNGAWRQDVTNWLSEDVPSFDFGGYVVGSDLKEANLYCKQDGMLCGVPFAQEVFNQC
ELQVEWLFKEGSFLEPSKNDSGKIVVAKITGPAKNILLAERTALNILSRSSGIATASHKIISLARSTGYKG
TIAGTRKTTPGLRRLEKYSMLVGGCDTHRYDLSSMVMLKDNHIWATGSITNAVKNARAVCGFAVKIE
VECLSEDEATEAIEAGADVIMLDNFKGDGLKMCAQSLKNKWNGKKHFLLECSGGLNLDNLEEYLCD
DIDIYSTSSIHQGTPVIDFSLKLAH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111111100000000000111111000000000000000000
0000000000
>DM_train870
MDQECIENYAKVNGIYIYYKLCKAPEEKAKLMTMHGGPGMSHDYLLSLRDMTKEGITVLFYDQFGC
GRSEEPDQSKFTIDYGVEEAEALRSKLFGNEKVFLMGSSYGGALALAYAVKYQDHLKGLIVSGGLSSV
PLTVKEMNRLIDELPAKYRDAIKKYGSSGSYENPEYQEAVNYFYHQHLLRSEDWPPEVLKSLEYAER
RNVYRIMNGPNEFTITGTIKDWDITDKISAIKIPTLITVGEYDEVTPNVARVIHEKIAGSELHVFRDCS
HLTMWEDREGYNKLLSDFILKHL
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train871
MTTNLTNSNCVEEYKENGKTKIRIKPFNALIELYHHQTPTGSIKENLDKLENYVKDVVKAKGLAIPTS

GAFSNTRGTWFEVMIAIQSWNYRVKRELNDYLIIKMPNVKTFDFRKIFDNETREKLHQLEKSLLTH
KQQVRLITSNPDLLIIRQKDLIKSEYNLPINKLTHENIDVALTLFKDIEGKCKWDSLVAGVGLKTSLRP
DRRLQLVHEGNILKSLFAHLKMRYWNPKAEFKYYGASSEPVSKADDDALQTAATHTIVNVNSTPER
AVDDIFSLTSFEDIDKMLDQIIKK
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train872
TNLLPNIKEDKMLTLRREIKSPSKSALDSFTLIMQTYNRTDLLLRLLNHYQAVPSLHKVIVVWNNVG
EKGPEELWNSLGPHPIPVIFKPQTANKMRNRLQVFPEVETNAVLMVDDDTLISAQDLVFAFSIWQQF
PDQIIGFVPRKHVSTSSGIYSYGGFELQTPGPGNGDQYSMVLIGASFFNSKYLELFQKQPAAVHALIDE
TQNCDDIAMNFLVTRHTGKPSGIFVKPINMVNLEKETNGYSGMWHRAEHFLQRSYCINKLVNIYDG
MPLKYSNIMISQFGFPYANHKSKM
11111111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111100000000000000000000000000000000000
000000111
>DM_train873
TAKNLHPLLGEKLNLARIENQHHFQSYLTAESPAYLSQHQVFNKVLFPATGYLEIAAAVGKNLLTTGE
QVVVSDVTIVRGLVIPETDIKTVQTVISTLENNSYKLEIFSTSEGDNQQANQWTLHAEGKIFLDSTTN
TKAKIDLEQYQRECSQVIDIQQHYQQFKSRGIDYGNSFQGIKQLWKGQGKALGKIALPEEIAGQATDY
QLHPALLDAALQILGHAIGNTETDDKAYLPVGIDKLKQYRQTITQVWAIVEIPENTLKGSIKLVDNQG
SLLAEIEGLRVTATTADALLK
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111100000000000001111100000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train874
MLSHMVLTRQDIGRAASYYEDGADDYYAKDGDASEWQGKGAEELGLSGEVDSKRFRELLAGNIGEG
HRIMRSATRQDSKERIGLDLTFSAPKSVSLQALVAGDAEIIKAHDRAVARTLEQAEARAQARQKIQGK
TRIETTGNLVIGKFRHETSRERDPQLHTHAVILNMTKRSDGQWRALKNDEIVKATRYLGAVYNAEL
AHELQKLGYQLRYGKDGNFDLAHIDRQQIEGFSKRTEQIAEWYAARGLDPNSVSLEQKQAAKVLSRA
KKTSVDREALRAEWQATAKELGIDFS
00000000000000000001111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train875
MGSSSSGRENLYFQGQHLLKNPGILDKIIYAAKIKSSDIVLEIGCGTGNLTVKLLPLAKKVITIDIDSRMI

SEVKKRCLYEGYNNLEVYEGDAIKTVFPKFDVCTANIPYKISSPLIFKLISHRPLFKCAVLMFQKEFAE
RMLANVGDSNYSRLTINVKLFCKVTKVCNVNRSSFNPPPKVDSVIVKLIPKESSFLTNFDEWDNLLRI
CFSRKRKTLHAIFKRNAVLNMLEHNYKNWCTLNKQVPVNFPFKKYCLDVLEHLDMCEKRSINLDE
NDFLKLLLEFNKKGIHFFNI
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000001111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000011
>DM_train876
EHEHNYHPNAVAAGLRAGRTRSIGLVIPDLENTSYTRIANYLERQARQRGYQLLIACSEDQPDNEMR
CIEHLLQRQVDAIIVSTSLPPEHPFYQRWANDPFPIVALDRALDREHFTSVVGADQDDAEMLAEELR
KFPAETVLYLGALPELSVSFLREQGFRTAWKDDPREVHFLYANSYEREAAAQLFEKWLETHPMPQA
LFTTSFALLQGVMDVTLRRDGKLPSDLAIATFGDNELLDFLQCPVLAVAQRHRDVAERVLEIVLASLD
EPRKPKPGLTRIKRNLYRRGVLSRS
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001110000000000000
000000001
>DM_train877
ISDPVELLKRAEKKGVPSSGFMKLFSGSDSYKFEEAADLCVQAATIYRLRKELNLAGDSFLKAADYQK
KAGNEDEAGNTYVEAYKCFKSGGNSVNAVDSLENAIQIFTHRGQFRRGANFKFELGEILENDLHDYA
KAIDCYELAGEWYAQDQSVALSNKCFIKCADLKALDGQYIEASDIYSKLIKSSMGNRLSQWSLKDYFL
KKGLCQLAATDAVAAARTLQEGQSEDPNFADSRESNFLKSLIDAVNEGDSEQLSEHCKEFDNFMRLD
KWKITILNKIKESIQQQEDDLL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111110000000000000000000000000000000000000000000000
00000000
>DM_train879
MASSMRSLFSDHGKYVESFRRFLNHSTEHQCMQEFMDKKLPGIIGRIGDTKSEIKILSIGGGAGEIDL
QILSKVQAQYPGVCINNEVVEPSAEQIAKYKELVAKISNLENVKFAWHKETSSEYQSRMLEKKELQK
WDFIHMIQMLYYVKDIPATLKFFHSLLGTNAKMLIIVVSGSSGWDKLWKKYGSRFPQDDLCQYITSD
DLTQMLDNLGLKYECYDLLSTMDISDCFIDGNENGDLLWDFLTETCNFNATAPPDLRAELGKDLQE
PEFSAKKEGKVLFNNTLSFIVIEA
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000
>DM_train880
HRPADVSALGVRGAEHPLLLAAVDVPGHGGAVFTGRLSTDEQPWLAEHVVGGRTLVPGSVLVDLAL

AAGEDVGLPVLEELVLQRPLVLAGAGALLRMSVGAPDESGRRTIDVHAAEDVADLADAQWSQHATG
TLAQGVAAGPRDTEQWPPEDAVRIPLDDHYDGLAEQGYEYGPSFQALRAAWRKDDSVYAEVSIAAD
EEGYAFHPVLLDAVAQTLSLGALGEPGGGKLPFAWNTVTLHASGATSVRVVATPAGADAMALRVTDP
AGHLVATVDSLVVRSTGEKWEQPEPRG
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111000000000000000000000000000000000000000000000011111111
11111111
>DM_train881
TGTDFHVGIVGLGSMGMGAARSCLRAGLSTWGADLNPQACANLLAEGACGAAASAREFAGVVDALV
ILVVNAAQVRQVLFGEDGVAHLMKPGSAVMVSSTISSADAQEIAAALTALNLNMLDAPVSGGAVKAA
QGEMTVMASGSEAAFTRLKPVLDAVASNVYRISDTPGAGSTVKIIHQLLAGVHIAAAAEAMALAARA
GIPLDVMYDVVTHAAGNSWMFENRMQHVVDGDYTPRSAVDIFVKDLGLVADTAKALRFPLPLAST
ALNMFTSASNAGYGKEDDSAVIKIFSG
11100000000000000000000000000000000000000000000000000000000000000000
00000000011000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011
>DM_train882
MGSSSSGRENLYFQGHMKVIMTTKVDKASMNIMNKLIENFGFKETEYVFEGNPVYKRGDVLILTTN
DEMIYYDYLDREIENQLGFKPEIIAFASRHSSKQKLPALTTHVTGNWGKAMYGGKDESFAVAIPSAM
KLSLLKMSELNDLGWTVCYEATHHGPTELEVPSFFIEIGSSEEEWINDRAGEIIAETIIYVLDNYEKGR
SKFKVALGIGGGHYAPKQTKRALEGDLAFGHILPKYAQPVSRDVMIKALNRFGEKVEAIYVDWKGSR
GETRQLAKSLAQELGLEFIKDGS
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000001
>DM_train884
MSKSWGKFIEEEEAEMASRRNLMIVDGTNLGFRFKHNNSKKPFASSYVSTIQSLAKSYSARTTIVLG
DKGKSVFRLEHLPEYAGNRDEKYAQRTEEEKALDEQFFEYLKDAFELCKTTFPTFTIRGVEADDMAA
YIVKLIGHLYDHVWLISTDGDWDTLLTDKVSRFSFTTRREYHLRDMYEHHNVDDVEQFISLKAIMG
DLGDNIRGVEGIGAKRGYNIIREFGNVLDIIDQLPLPGKQKYIQNLNASEELLFRNLILVDLPTYCVDAI
AAVGQDVLDKFTKDILEIAEQ
11111111111111111100000000000000011111110000000000000000000000000000
00000000000011111111111111111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train885
MDYLVKALAYDGKVRAYAARTTDMVNEGQRRHGTWPTASAALGRTMTASLMLGAMLKGDDKLTV

KIEGGGPIGAIVADANAKGEVRAYVSNPQVHFDLNAAGKLDVRRAVGTNGTLSVVKDLGLREFFTGQ
VEIVSGELGDDFTYYLVSSEQVPSSVGVGVLVNPDNTILAAGGFIIQLMPGTDDETITKIEQRLSQVEPI
SKLIQKGLTPEEILEEVLGEKPEILETMPVRFHCPCSKERFETAILGLGKKEIQDMIEEDGQAEAVCHF
CNEKYLFTKEELEGLRDQTTR
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0011111
>DM_train888
MACLSPSQLQKFQQDGFLVLEGFLSAEECVAMQQRIGEIVAEMDVPLHCRTEFSTQEEEQLRAQGST
DYFLSSGDKIRFFFEKGVFDEKGNFLVPPEKSINKIGHALHAHDPVFKSITHSFKVQTLARSLGLQMP
VVVQSMYIFKQPHFGGEVSPHQDASFLYTEPLGRVLGVWIAVEDATLENGCLWFIPGSHTSGVSRRM
VRAPVGSAPGTSFLGSEPARDNSLFVPTPVQRGALVLIHGEVVHKSKQNLSDRSRQAYTFHLMEASG
TTWSPENWLQPTAELPFPQLYT
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train890
AEPESCGTVRFSDVGWTDITATTATATTILEALGYETDVKVLSVPVTYTSLKNKDIDVFLGNWMPTM
EADIAPYREDKSVETVRENLAGAKYTLATNAKGAELGIKDFKDIAAHKDELDGKIYGIEPGNDGNRLI
IDMVEKGTFDLKGFEVVESSEQGMLAQVARAEKSGDPIVFLGWEPHPMNANFKLTYLSGGDDVFGP
NYGGATVHTNVRAGYTTECPNVDKLLQNLSFSLQMENEIMGKILNDGEDPEKAAAAWLKDNPQSI
EPWLSGVATKDGGDGLAAVKAALGL
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train891
QDLARIEQFLDALWLEKNLAENTLNAYRRDLSMMVEWLHHRGLTLATAQSDDLQALLAERLEGGY
KATSSARLLSAVRRLFQYLYREKFREDDPSAHLASPKLPQRLPKDLSEAQVERLLQAPLIDQPLELRD
KAMLEVLYATGLRVSELVGLTMSDISLRQGVVRVIGKGNKERLVPLGEEAVYWLETYLEHGRPWLLN
GVSIDVLFPSQRAQQMTRQTFWHRIKHYAVLAGIDSEKLSPHVLRHAFATHLLNHGADLRVVQMLL
GHSDLSTTQIYTHVATERLRQLHQ
000000000000000000000000000000000000000000000000000000000000001111111000
000000000000000000000000000011111111110000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train892
MRSHILGKIELDQTRLAPDLAYLAAVPTVEEEYDEFSNGFWKHVPLWNASGDSEDRLYRDLKDAAA

QPTAHVEHVPYLKEIVTTVFDGTHLQMARSRNLKNAIVIPHRDFVELDREVDRYFRTFMVLEDSPL
AFHSNEDTVIHMRPGEIWFLDAATVHSAVNFSEISRQSLCVDFAFDGPFDEKEIFADATLYAPGSTPD
LPERRPFTAEHRRRILSLGQVIERENFRDILFLLSKVHYKYDVHPSETYDWLIEISKQAGDEKMVVKA
EQIRDFAVEARALSERFSLTSW
0000000000000000000000000000011110000000000000001111111111111111110000
0000000000000000000000000000000000000001111111100000000000000000000000
0000000000000000000000000000000011111111111111110000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train893
ATALAGSNGVCIAYYITDGRNPTFKLKDIPDKVDMVILFGLKYWSLQDTTKLPGGTGMMGSFKSYKD
LDTQIRSLQSRGIKVLQNIDDDVSWQSSKPGGFASAAAYGDAIKSIVIDKWKLDGISLDIEHSGAKPNP
IPTFPGYAATGYNGWYSGSMAATPAFLNVISELTKYFGTTAPNNKQLQIASGIDVYAWNKIMENFRN
NFNYIQLQSYGANVSRTQLMMNYATGTNKIPASKMVFGAYAEGGTNQANDVEVAKWTPTQGAKGG
MMIYTYNSNVSYANAVRDAVKN
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train895
MDRKTRLSEPPTLALRLKPYKTAIQQLRSVIRALKENTTVTFLPTPSLILQTVRSHCVSKITFNSSCLYI
TDKSFQPKTINNSTPLLGNFMYLTSSKDLTKFYVQDISDLSAKISMCAPDFNMEFSSACVHGQDIVRE
SENSAVHVDLDFGVVADLLKWIGPHTRVKRNVKKAPCPTGTVQILVHAGPPAIKFILTNGSELEFTSN
NRVSFHGVKNMRINVQLKNFYQTLLNCAVTKLPCTLRIVTEHDTLLYVASRNGLFAVENFLTEEPFQ
RGDPFDKNYVGNSGKSR
1111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000011111111111000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000011111111111111
111111
>DM_train896
GMEQATRTIYSEYAAYPETQGIIAVEKRQPRDSLTDQFDVLLLVITRDPSVEWTVKHYRLNTLRVSLH
LVHEQVLSRWLILNANRRAVHWVSEGTIIFERNDYLTDLKKQLRNFPETERCLQMSLSFAKLLRRFQ
DGRNLFSRGNYYDAYTHVHHALHHLARLSVLEKGAHPEVVVWEQARLDDPDVYKLYEQLLLSEETL
EQRIHLALIGLEHLLQSKVLSGGKYLFEVMRERDRPWTMHELMEESRLTELKVDLGSLVDFFIRKGL
IRISYQRTKGLGVELVTYEPVV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000001
>DM_train897
AYSLNNWNKPIKNSVTTKQWMSALPDTTNLAALSIPGTHDTMSYNGDITWTLTKPLAQTQTMSLY

QQLEAGIRYIDIRAKDNLNIYHGPIFLNASLSGVLETITQFLKKNPKETIIMRLKDEQNSNDSFDYRIQ
PLINIYKDYFYTTPRTDTSNKIPTLKDVRGKILLLSENHTKKPLVINSRKFGMQFGAPNQVIQDDYNG
PSVKTKFKEIVQTAYQASKADNKLFLNHISATSLTFTPRQYAAALNNKVEQFVLNLTSEKVRGLGILIM
DFPEKQTIKNIIKNNKFN
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train898
MANGYTYEDYQDTAKWLLSHTEQRPQVAVICGSGLGGLVNKLTQAQTFDYSEIPNFPESTVPGHAGR
LVFGILNGRACVMMQGRFHMYEGYPFWKVTFPVRVFRLLGVETLVVTNAAGGLNPNFEVGDIMLIR
DHINLPGFSGENPLRGPNEERFGVRFPAMSDAYDRDMRQKAHSTWKQMGEQRELQEGTYVMLGG
PNFETVAECRLLRNLGADAVGMSTVPEVIVARHCGLRVFGFSLITNKVIMDTESQGKANHEEVLEAG
KQAAQKLEQFVSLLMASIPVSGHTG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111000000000000000000
11111
>DM_train899
SFLKHVQDCNTHDLSNFVRFVIEGRRVGWVRKALAQRLKAHGRVFDVTRDAVLLSASLRTPQSRTR
AVADVVDRLADEGVVPAPRGELYRVNQSWGEPTLMLLDRAVVPTFGVRAYGVHLNGYVGAGADLHL
WIGRRSPDKSVAPGKLDNMVAGGQPADLSLRQNLIKECAEEADLPEALARQAIPVGAITYCMESPAGI
KPDTLFLYDLALPEDFRPHNTDGEMADFMLWPAAKVVEAVRTTEAFKFNVNLTVIDFAIRHGLIDP
DNEPDYQEILAGLRGRPRERAAS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011111
11111
>DM_train900
NAMPIEIITDSGADLPQSYIREHRIAFLPLVVHWNGQDYKDGITIEPKQVYDAMRQGHTVKTAQPSP
LAMKELFLPYAKENRPCLYIAFSSKLSGTYQTAMAVRSELLDEYPEFRLTIIDSKCASLGQGLAVMKAV
ELAKQNTPYNLLCETIESYCRHMEHIFTVDNLDYLARGGRISKTAAAFGGLLNIKPLLHVEDGALIPL
EKWRGRKKVLKRMVELMGERGDDLQKQTIGISHADDEETALELKQMIEETHGCTRFFLSDIGSAIGA
HAGPGTIALFFLNKYIEI
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111110000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train903
MPKERVDVLAYKQGLFETREQAKRGVMAGLVVNVINGERYDKPGEKIDDGTELKLKGEKLRYVSRG

GLKLEKALAVFNLSVEDMITIDIGASTGGFTDVMLQNGAKLVYAVDVGTNQLVWKLRQDDRVRSME
QYNFRYAEPVDFTEGLPSFASIDVSFISLNLILPALAKILVDGGQVVALVKPQFEAGREQIGKNGIVRES
SIHEKVLETVTAFAVDYGFSVKGLDFSPIQGGHGNIEFLAHLEKTDSPQNDVPTSIKEVVAQAHKEFK
KNEEERSFGVNPKDCPRK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000100000000000000000000000
000000000000000000000000000000000000000000000000000000000111111111111111
>DM_train904
VIQNSLNDKIVTISCKADTNLFFYQVAGNVSLFQQTRNYLERWRLIYDSNKAAYKIKSMDIHNTNLVL
TWNAPTHNISTQQDSNADNQYWLLLKDIGNNSFIIASYKNPNLVLYADTVARNLKLSTLNNSNYIKFI
IEDYIISDLNNFTCKISPILDLNKVVQQVDVTNLNVNLYTWDYGRNQKWTIRYNEEKAAYQFFNTILS
NGVLTWIFSNGNTVRVSSSNDQNNDAQYWLINPVSDTDETYTITNLRDTTKALDLYGGQTANGTAIQ
VFNYHGDDNQKWNIRNP
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train905
MSVQLTPHFGNVQAHYDLSDDFFRLFLDPTQTYSCAYFERDDMTLQEAQIAKIDLALGKLNLEPGM
TLLDIGCGWGATMRRAIEKYDVNVVGLTLSENQAGHVQKMFDQMDTPRSRRVLLEGWEKFDEPVD
RIVSIGAFEHFGHQRYHHFFEVTHRTLPADGKMLLHTIVRPTFKEGREKGLTLTHELVHFTKFILAEIF
PGGWLPSIPTVHEYAEKVGFRVTAVQSLQLHYARTLDMWATALEANKDQAIAIQSQTVYDRYMKYLT
GCAKLFRQGYTDVDQFTLEK
111111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001111111111100000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train906
MSKQLLALNIDGALLRSNGKIHQATKDAIEYVKKKGIYVTLVTNRHFRSAQKIAKSLKLDAKLITHSG
AYIAEKIDAPFFEKRISDDHTFNIVQVLESYQCNIRLLHEKYSIGNKKKVNSNLLGKALIHPSDPIFYPV
QFVESLSDLLMDEPVSAPVIEVYTEHDIQHDITETITKAFPAVDVIRVNDEKLNIVPKGVSKEAGLALV
ASELGLSMDDVVAIGHQYDDLPMIELAGLGVAMGNAVPEIKRKADWVTRSNDEQGVAYMMKEYFR
MQQRKGFLDKFHMKR
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000001111111111111
>DM_train907
GSCSSKPANTAKGEKGSDKTGKDLELKLSFQEGIAPGESLNEKLDFMEKLGVVGFEPGGGGLAGRVN

EIKQALNGRNIKVSAICAGFKGFILSTDPAIRKECMDTMKEIIAAAGELGSTGVIIVPAFNGQVPALPHT
METRDFLCEQFNEMGTFAAQHGTSVIFEPLNRKECFYLRQVADAASLCRDINNPGVRCMGDFWHM
TWEETSDMGAFISGGEYLQHVHVASRKRRSMPGEDGDADNYINGFKGLKMIGYNNYVSFECGCQGD
RNVVVPAAVKLLREQWEQA
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train908
MADFEDRVSDEEKVRIAAKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNMDQFTPV
KIEGYDDQVLITEHGDLGNGRFLDPRNKISFKFDHLRKEASDPQPEDTESALKQWRDACDSALRAY
VKDHYPNGFCTVYGKSIDGQQTIIACIESHQFQPKNFWNGRWRSEWKFTITPPTAQVAAVLKIQVHY
YEDGNVQLVSHKDIQDSVQVSSDVQTAKEFIKIIENAENEYQTAISENYQTMSDTTFKALRRQLPVTR
TKIDWNKILSYKIGKEMQNA
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111111111
>DM_train909
GMTDAPADAPLDADARRAVKPVICYPNDSLPRPDLALYRAARASARKTGEVLVPPREGRCFEVKAG
QFFRISSVEGPQVGDLNLHNLHDLTERFFSGKTRALHGTHVTTGERLWSNLPYLRPMATIIEDTLGW
YGIDQYGGSVHDVIGTRCDPYTGNLLAGGHYHHCCHSNLTRALADHTGLPLHEAEMLVHDVLNVFM
CTGFTRDTGQYFMKASPVRPGDYLEFFAEIDLLGNLSACPGGDCSSEHSSDTASCHPLLVEIFAPAEG
MLGDWPSPSVNGYDRSHGR
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train910
GTHMKSQIKRQRMIYHCKFGEFGVMEGQFTEPSGVAVNAQNDIIVADTNNHRIQIFDKEGRFKFQFG
ECGKRDSQLLYPNRVAVVRNSGDIIVTERSPTHQIQIYNQYGQFVRKFGATILQHPRGVTVDNKGRIIV
VECKVMRVIIFDQNGNVLHKFGCSKHLEFPNGVVVNDKQEIFISDNRAHCVKVFNYEGQYLRQIGGE
GITNYPIGVGINSNGEILIADNHNNFNLTIFTQDGQLISALESKVKHAQCFDVALMDDGSVVLASKDY
RLYIYRYVQLAPVGM
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train912
MGSDKIHHHHHHTHSVETPYGSVTFTVYGTPKPKRPAIFTYHDVGLNYKSCFQPLFRFGDMQEIIQN

FVRVHVDAPGMEEGAPVFPLGYQYPSLDQLADMIPCILQYLNFSTIIGVGVGAGAYILSRYALNHPDTV
EGLVLINIDPNAKGWMDWAAHKLTGLTSSIPDMILGHLFSQEELSGNSELIQKYRGIIQHAPNLENIEL
YWNSYNNRRDLNFERGGETTLKCPVMLVVGDQAPHEDAVVECNSKLDPTQTSFLKMADSGGQPQL
TQPGKLTEAFKYFLQG
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train913
MGYAHPEVLVSTDWVQEHLEDPKVRVLEVDEDILLYDTGHIPGAQKIDWQRDFWDPVVRDFISEEE
FAKLMERLGISNDTTVVLYGDKNNWWAAYAFWFFKYNGHKDVRLMNGGRQKWVEEGRPLTTEVP
SYPPGRYEVPYRDESIRAYRDDVLEHIIKVKEGKGALVDVRSPQEYRGELTHMPDYPQEGALRAGHIP
GAKNIPWAKAVNPDGTFKSAEELRALYEPLGITKDKDIVVYCRIAERSSHSWFVLKYLLGYPHVKNY
DGSWTEWGNLVGVPIAKGEE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train914
MRPMTHVPVLYQEALDLLAVRPGGVYVDATLGGAGHARGILERGGRVIGLDQDPEAVARAKGLHLP
GLTVVQGNFRHLKRHLAALGVERVDGILADLGVSSFHLDDPSRGFSYQKEGPLDMRMGLEGPTAKE
VVNRLPLEALARLLRELGEEPQAYRIARAIVAAREKAPIETTTQLAEIVRKAVGFRRAGHPARKTFQA
LRIYVNDELNALKEFLEQAAEVLAPGGRLVVIAFHSLEDRVVKRFLRESGLKVLTKKPLVPSEKEAAQ
NPRARSAKLRAAEKEAP
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
1
>DM_train915
MFKDFFNRTKKKKYLTVQDSKNNDVPAGIMTKCPKCKKIMYTKELAENLNVCFNCDHHIALTAYKR
IEAISDEGSFTEFDKGMTSANPLDFPSYLEKIEKDQQKTGLKEAVVTGTAQLDGMKFGVAVMDSRFR
MGSMGSVIGEKICRIIDYCTENRLPFILFSASGGARMQEGIISLMQMGKTSVSLKRHSDAGLLYISYLTH
PTTGGVSASFASVGDINLSEPKALIGFAGRRVIEQTINEKLPDDFQTAEFLLEHGQLDKVVHRNDMRQ
TLSEILKIHQEVTK
11111111111111111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
1
>DM_train916
MGSSSSGLVPRGSHMASAPALTKSQTDRLEVLLNPKDEISLNSGKPFRELESELLSRRKKDLQQIYAE

ERENYLGKLEREITRFFVDRGFLEIKSPILIPLEYIERMGIDNDTELSKQIFRVDKNFCLRPMLAPNLY
NYLRKLDRALPDPIKIFEIGPCYRKESDGKEHLEEFTMLNFCQMGSGCTRENLESIITDFLNHLGIDF
KIVGDSCMVYGDTLDVMHGDLELSSAVVGPIPLDREWGIDKPWIGAGFGLERLLKVKHDFKNIKRA
ARSESYYNGISTNL
11111111111111111100000000000000000001111110000000000000000000000000
00000000000000000000000000000000000000011100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train917
MNSLLFVYGTLRKHEKNHHLLAQSACINEQARTKGSLFAAKEGPTVVFNDEDEGYIYGEVYEADELC
IHKLDQFFQGYHKQTVFVETDVGIKIALIYFMNKDGCAGFTKISSGDWKEHQMISKSKNPIYYFAYGS
CMDNARFQKAGVDHYFQDPVGRAVLKGYTTRFTLKREDGSRADMLEDGGTTEGVLYRIPYSALSYL
YKREGVESLTYRPAFVDVEAGGRHYKDCLTFLVLQKEAEIAPPQHYQIEIERGAELYLSPEFTEKLKRH
MNSLPKGLEHHHHHH
00000000000000000000000000000000000000011000000000000000000000000000
00000000000000000000000000000111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111
1
>DM_train918
MTNVTGDYTDCTPLLGDRAALDSFYEEHGYLFLRNVLDRDLVKTVAEQMREGLVALGAADPHATLE
ELTIDSFESVDEVAMHDYVKYDAFWNNPSTIKVFEQVFGEPVFVFLSTTIRYYPSQAGSEEPSFHYLT
PFHQDGFYIGPNQDFRTFWIPLIRTTRESGGVALADGSHRRGKRDHVLNESFRRFGHPVRGIPPTEV
SEDEHLLHSPMEPGDILLFHAHMCHKSIPNLSKDPRLMRMSMDTRVQPAKSHRGFNAMTPWTESA
KDASKGIMAKITGTPTDVE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111111111111111
1
>DM_train919
MNYNPEEQFRCTIIRGKAKNMLDNLLPAYANIIDDICPCDKASFVKDFNNRLIEILGEETTKKTLDNH
RTEIAGKLFGMFYEDDEVIFPSGRTNKYIEDSDQPAFFKDICFKFQFPNGMDKLDKVIEKVGAKIQIR
QFPYILQVLLTADNNNIQLSKDDIAYYVLNSLQVLQGKIKPIEVIEKIIEDRSNDITKKVRHPGKETSYS
MQHIREQLNYLELANLIRIDGNLVKLNYREAENINYIAQFWGNKPEFNAYKYDFTSEDDKKSFFKD
WQQYYSNVNSHKS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111
1
>DM_train920
GAMDTRKNVSGAERKIWSLIRDCSGKLEGVTETSVLEVLLIVSRVLGIRKEDLFLKDLGVSPTEEKRI

LELVEKRASGYPLHYILGEKEFMGLSFLVEEGVFVPRPETEELVELALELIRKYGIKTVADIGTGSGAIG
VSVAKFSDAIVFATDVSSKAVEIARKNAERHGVSDRFFVRKGEFLEPFKEKFASIEMILSNPPYVKSSA
HLPKDVLFEPPEALFGGEDGLDFYREFFGRYDTSGKIVLMEIGEDQVEELKKIVSDTVFLKDSAGKYR
FLLLNRRSS
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000111111100
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train921
MRGSHHHHHHGSMDAQSAAKCLTAVRRHSPLVHSITNNVVTNFTANGLLALGASPVMAYAKEEVA
DMAKIAGALVLNIGTLSKESVEAMIIAGKSANEHGVPVILDPVGAGATPFRTESARDIIREVRLAAIRG
NAAEIAHTVGVTDWLIKGVDAGEGGGDIIRLAQQAAQKLNTVIAITGEVDVIADTSHVYTLHNGHKL
LTKVTGAGSLLTSVVGAFCAVEENPLFAAIAAISSYGVAAQLAAQQTADKGPGSFQIELLNKLSTVTEQ
DVQEWATIERVTVS
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train922
MAGVDPFTGNSAYRSAASKTMNIYFPKKEAVTFDQANPTQILGKLKELNGTAPEEKKLTDDLILLEKI
LSLICNSSSEKPTVQQLQILWKAINCPEDIVFPALDILRLSIKHPSVNENFCNEKEGAQFSSHLINLLNP
KGKPANQLLALRTFCNCFVGQAGQKLMMSQRESLMSHAIELKSGSNKNIHIALATLALNYSVCFHKD
HNIEGKAQCLSLISTILEVVQDLEATFRLLVALGTLISDDSNAVQLAKSLGVDSQIKKYSSVSEPAKVSE
CCRFILNLL
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000010000000000000000000011000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train923
MTGSLNRHSLLNGVKKMRIILCDTNEVVTNLWQESIPHAYIQNDKYLCIHHGHLQSLMDSMRKGDA
IHHGHSYAIVSPGNSYGYLGGGFDKALYNYFGGKPFETWFRNQLGGRYHTVGSATVVDLQRCLEEKT
IECRDGIRYIIHVPTVVAPSAPIFNPQNPLKTGFEPVFNAMWNALMHSPKDIDGLIIPGLCTGYAGVPP
IISCKSMAFALRLYMAGDHISKELKNVLIMYYLQYPFEPFFPESCKIECQKLGIDIEMLKSFNVEKDAIE
LLIPRRILTLDL
11111111111111100000000000000000000011111110000000000000000000011110
00000000000000000000000000000000000000000000000000000000000111100000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011111100
>DM_train924
TAQIKGLTQAQRNANDGISLAQTAEGALGEISNNLQRIRELAVQASNGTNTQTDRDALQAEVTQLQS
EIQRVAEQTSFNGQKLLDGSFNGVQFQIGANAGETIGVSKIMNAQTASLGGSLTRTTSTIDATDLTKYD
TAMAAGDLTINGVDVGKIDAASTAQERAAQLTEAINRVSSQTNVGASYDKTTGQVTLTSNAAIAVAGA
ANDATVAGWANNATTGTATTTTGINSLTVSSFTNAQQTITQIDNALKDINTARADLGAVQNRFTSTV
ANLQSMTENLSSA

1111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000111111111111
>DM_train926
AVDRDTAKNSSPIAGNIEYTISTPGSNYAVGDKITVKYVSDDIETEGKITEVDADGKIKKINIPTAKIIAK
AKEVGEYPTLGSNWTAEISSSSSGLAAVITLGKIITDSGILLAEIENAEAAMTAVDFQANLKKYGIPGVV
ALYPGELGDKIEIEIVSKADYAKGASALLPIYPGGGTRASTAKAVFGYGPQTDSQYAIIVRRNDAIVQSV
VLSTKRGGKDIYDSNIYIDDFFAKGGSEYIFATAQNWPEGFSGILTLSGGLSSNAEVTAGDLMEAWDFF
ADR
1111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000011111
>DM_train927
GTEDTVIKVSVLRGPSVIAFADWLENPPIIDNKKVQVKVVDSPDLAQALLIKQETDIAVLPMINAANL
YNKGIKIKLAGCPIWGTLYLVEKTPLKEPALYVFGNGTTPDILTRYYLGRQRLDYPLNYAFNTAGEITQ
GILAGKVNRAVLGEPFLSIALRKDSSLRITADLNHLTDNDTLGFAQTAVVYTPTMEKYRIAFEDALRA
SCQKAVRYPKETIHSLEEHGIFAQGALTPKSIERCKIYYLSAIEAKDAVMGFLRLIEQYEPKAVGGRLPD
AGFIPEKQ
1110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>DM_train928
MTGTLLSFGHGYTARVLSRALAPQGWRIIGTSRNPDQMEAIRASGAEPLLWPGEEPSLDGVTHLLIS
TAPDSGGDPVLAALGDQIAARAAQFRWVGYLSTTAVYGDHDGAWVDETTPLTPTAARGRWRVMAE
QQWQAVPNLPLHVFRLAGIYGPGRGPFSKLGKGGIRRIIKPGQVFSRIHVEDIAQVLAASMARPDPGA
VYNVCDDEPVPPQDVIAYAAELQGLPLPPAVDFDKADLTPMARSFYSENKRVRNDRIKEELGVRLKY
PNYRVGLEALQADAET
1000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000111110000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>DM_train929
TITDDQIEVTDATELVQSSSTGKICNNPHRILDGIDCTLIDALLGDPHCDVFQDETWDLFVERSKAFS
NCYPYDVPDYASLRSLVASSGTLEFITEGFTWTGVTQNGGSNACKRGPGSGFFSRLNWLTKSGSTYPV
LDVTMPNNDNFDKLYIWGIHHPSTNQEQTSLYVQASGRVTVSTRRSQQTIIPNIGSRPWVRGLSSRIS
IYWTIVKPGDVLVINSNGNLIAPRGYFKMRTGKSSIMRSDAPIDTCISECITPDGSIPNDKPFQNVNKI
TYGACPKYV
1111111111111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000

>DM_train930
MSGADRSPNAGAAPDSAPGQAAVASAYQRFEPRAYLRNNYAPPRGDLCNPNGVGPWKLRCLAQTFA
TGEVSGRTLIDIGSGPTVYQLLSACSHFEDITMTDFLEVNRQELGRWLQEEPGAFNWSMYSQHACLI
EGKGECWQDKERQLRARVKRVLPIDVHQPQPLGAGSPAPLPADALVSAFCLEAVSPDLASFQRALDH
ITTLLRPGGHLLLIGALEESWYLAGEARLTVVPVSEEEVREALVRSGYKVRDLRTYIMPAHLQTGVDD
VKGVFFAWAQKVGL
11111111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train931
GAKESEQKVTIDSAKHEKHTKDKEENNSANTVFFDKINDLLVASVKEFEGTVGISYLDLETGEQRSV
NGQHEFYTASTIKVPLTMLVADTVASGQKKWTDLIPYNAEEDYEEGTGIIAYNIQPEYPLKTLQEYAIT
YSDNIAKNMLYDTLGGDAKAKREMYQRYLHKTPSIEEPQFSSEDALVILQKLYTEKATKPDYQAIYDS
MKQSVFHERMETPTTQGKVAHKIGSYDEFIHDMGILETPHPFALAIFTKGPDNAKSAAFIASVTDKL
WQLQVSEYPNQ
11111111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train932
MDIAQDWNGIPVPANPGNGMTWQLQDNVSDSFNYTSSEGNRPTAFTSKWKPSYINGWTGPGSTIF
NAPQAWTNGSQLAIQAQPAGNGKSYNGIITSKNKIQYPVYMEIKAKIMDQVLANAFWTLTDDETQEI
DIMEGYGSDRGGTWFAQRMHLSHHTFIRNPFTDYQPMGDATWYYNGGTPWRSAYHRYGCYWKDP
FTLEYYIDGVKVRTVTRAEIDPNNHLGGTGLNQATNIIIDCENQTDWRPAATQEELADDSKNIFWVD
WIRVYKPVAVSGGGNNSLE
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111
>DM_train933
GSAMDVRQSIHSAHAKTLDTQGLRNEFLVEKVFVADEYTMVYSHIDRIIVGGIMPITKTVSVGGEVGK
QLGVSYFLERRELGVINIGGAGTITVDGQCYEIGHRDALYVGKGAKEVVFASIDTGTPAKFYYNCAPAH
TTYPTKKVTPDEVSPVTLGDNLTSNRRTINKYFVPDVLETCQLSMGLTELAPGNLWNTMPCHTHER
RMEVYFYFNMDDDACVFHMMGQPQETRHIVMHNEQAVISPSWSIHSGVGTKAYTFIWGMVGENQ
VFDDMDHVAVKEICA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
>DM_train934
MTVRKNQATLTADEKRRFVAAVLELKRSGRYDEFVRTHNEFIMSDTDSGERTGHRSPSFLPWHRRF
LLDFEQALQSVDSSVTLPYWDWSADRTVRASLWAPDFLGGTGRSTDGRVMDGPFAASTGNWPINV
RVDSRTYLRRSLGGSVAELPTRAEVESVLAISAYDLPPYNSASEGFRNHLEGWRGVNLHNRVHVWV

GGQMATGVSPNDPVFWLHHAYVDKLWAEWQRRHPDSAYVPTGGTPDVVDLNETMKPWNTVRPA
DLLDHTAYYTFDALEHHHHHH
1000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001111111
>DM_train936
MSNQLERGPVRTPHADVLLASVGERGVLCDFYDEGAADTYRDLIQDADGTSEAREFATRTGPVSGP
VLELAAGMGRLTFPFLDLGWEVTALELSTSVLAAFRKRLAEAPADVRDRCTLVQGDMSAFALDKRF
GTVVISSGSINELDEADRRGLYASVREHLEPGGKFLLSLAMSEAAESEPLERKQELPGRSGRRYVLHV
RHLPAEEIQEITIHPADETTDPFVVCTHRRRLLAPDQVVRELVRSGFDVIAQTPFASGGAGRKDMVLV
EAVMPGATADAR
1111111111000000011111111111111111111111111000000000000001000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011110000000000000000001
1111111111111000000000000000000000000000000000000001111111
>DM_train937
MTTTESPTAAGSGSAATDKFKAERATADTSPERLAAIAKDALGALNDVILKHGVTYPEYRVFKQWLI
DVGEGGEWPLFLDVFIEHSVEEVLARSRKGTMGSIEGPYYIENSPELPSKCTLPMREEDEKITPLVFS
GQVTDLDGNGLAGAKVELWHADNDGYYSQFAPHLPEWNLRGTIIADEEGRYEITTIQPAPYQIPTDG
PTGQFIEAQNGHPWRPAHLHLIVSAPGKESVTTQLYFKGGEWIDSDVASATKPELILDPKTGDDGKN
YVTYNFVLDPA
1111111111111111111111100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>DM_train938
MEDDPVWRFDDRDVILYNIALGATTKQLKYVYENDSDFQVIPTFGHLITFNSGKSQNSFAKLLRNFN
PMLLLHGEHYLKVHSWPPPTEGEIKTTFEPIATTPKGTNVVIVHGSKSVDNKSGELIYSNEATYFIRN
CQADNKVYADRPAFATNQFLAPKRAPDYQVDVPVSEDLAALYRLSGDRNPLHIDPNFAKGAKFPKPI
LHGMCTYGLSAKALIDKFGMFNEIKARFTGIVFPGETLRVLAWKESDDTIVFQTHVVDRGTIAINNA
AIKLVGDKAKI
1111000000000000000000000000000000000000000000000011110000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011111
>DM_train939
GPMNPGPLELQLGDIFIAVKTTWAFHRSRLDLLLDTWVSRIRQQTFIFTDSPDERLQERLGPHLVVT
QCSAEHSHPALSCKMAAEFDAFLVSGLRWFCHVDDDNYVNPKALLQLLKTFPQDRDVYVGKPSLN
RPIHASELQSKQRTKLVRFWFATGGAGFCINRQLALKMVPWASGSHFVDTSALIRLPDDCTVGYIIEC
KLGGRLQPSPLFHSHLETLQLLGAAQLPEQVTLSYGVFEGKLNVIKLPGPFSHEEDPSRFRSLHCLLY
PDTPWCPLLAAP
1111111100000000000000000000000000000000000000000000000000000011
1111100000000000000000000000000000000000000000000000011111111111

1111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111
>DM_train940
MDIKINDITLGNNSPFVLFGGINVLESLDSTLQTCAHYVEVTRKLGIPYIFKASFDKANRSSIHSYRGV
GLEEGLKIFEKVKAEFGIPVITDVHEPHQCQPVAEVCDVIQLPAFLARQTDLVVAMAKTGNVVNIKKP
QFLSPSQMKNIVEKFHEAGNGKLILCERGSSFGYDNLVVDMLGFGVMKQTCGNLPVIFDVTHSLQTR
DAGSAASGGRRAQALDLALAGMATRLAGLFLESHPDPKLAKCDGPSALPLHLLEDFLIRIKALDDLIK
SQPILTIE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000001111111110
000000000000000000000000111111111111111100000000000000000000000111
>DM_train942
MATHKPINILEAFAAAPPPLDYVLPNMVAGTVGALVSPGGAGKSMLALQLAAQIAGGPDLLEVGELP
TGPVIYLPAEDPPTAIHHRLHALGAHLSAEERQAVADGLLIQPLIGSLPNIMAPEWFDGLKRAAEGRR
LMVLDTLRRFHIEEENASGPMAQVIGRMEAIAADTGCSIVFLHHASKGAAMMGAGDQQQASRGSSV
LVDNIRWQSYLSSMTSAEAEEWGVDDDQRRFFVRFGVSKANYGAPFADRWFRRHDGGVLKPAVLE
RQRKSKGVPRGEA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011111111111111111100000000000000
00000000000000000000000000000000000000000000000001111111111111111
>DM_train944
MKKNRAFLKWAGGKYPLLDDIKRHLPKGECLVEPFVGAGSVFLNTDFSRYILADINSDLISLYNIVKM
RTDEYVQAARELFVPETNCAEVYYQFREEFNKSQDPFRRAVLFLYLNRYGYNGLCRYNLRGEFNVPF
GRYKKPYFPEAELYHFAEKAQNAFFYCESYADSMARADDSSVVYCDPPYAPLSATANFTAYHTNSFTL
EQQAHLAEIAEGLVERHIPVLISNHDTMLTREWYQRAKLHVVKVRRSISSNGGTRKKVDELLALYKP
GVVSPAKK
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011111111111000000000000000
0000000000000000000000000000000011111111111100000000000011111111
>DM_train945
MSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRD
GDSYRSPWSNKYDPPLEDGAMPSARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWDLDHGFAGVIL
IKKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKTGSGTMNLGGSLTRQMEK
DETVSDSSPHIANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSIDAIPDNQKYKQLQRELSQVLTQ
RQIYIQPDN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111
>DM_train946
GMGGAALPDNGWPADRIDTESAHSARIYDYIIGGKDYYPADKEAGDAMSREWPALPVHMRANRD

WMNRAVAHLAKEAGIRQFLDIGTGIPTSPNLHEIAQSVAPESRVVYVDNDPIVLTLSQGLLASTPEGR
TAYVEADMLDPASILDAPELRDTLDLTRPVALTVIAIVHFVLDEDDAVGIVRRLLEPLPSGSYLAMSIG
TAEFAPQEVGRVAREYAARNMPMRLRTHAEAEEFFEGLELVEPGIVQVHKWHPDAATADGIRDEDI
AMYGAVARKP
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train948
GMQVEQRTLNTAAHPFQITAYWLDQISDFETAVDYPIMIICPGGGFTYHSGREEAPIATRMMAAGMH
TVVLNYQLIVGDQSVYPWALQQLGATIDWITTQASAHHVDCQRIILAGFSAGGHVVATYNGVATQPE
LRTRYHLDHYQGQHAAIILGYPVIDLTAGFPTTSAARNQITTDARLWAAQRLVTPASKPAFVWQTAT
DESVPPINSLKYVQAMLQHQVATAYHLFGSGIHGLALANHVTQKPGKDKYLNDQAAIWPQLALRWL
QEQGLLAGNY
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111111111000000000000000000000000111
>DM_train949
SNKKQSNRLTEQHKLSQGVIGIFGDYAKAHDLAVGEVSKLVKKALSNEYPQLSFRYRDSIKKTEINEA
LKKIDPDLGGTLFVSNSSIKPDGGIVEVKDDYGEWRVVLVAEAKHQGKDIINIRNGLLVGKRGDQDL
MAAGNAIERSHKNISEIANFMLSESHFPYVLFLEGSNFLTENISITRPDGRVVNLEYNSGILNRLDRLT
AANYGMPINSNLCINKFVNHKDKSIMLQAASIYTQGDGREWDSKIMFEIMFDISTTSLRVLGRDLFE
QLTSK
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train951
GSAMAKANSSFSEVQIARRIKEGRGQGHGKDYIPWLTVQEVPSSGRSHRIYSHKTGRVHHLLSDLEL
AVFLSLEWESSVLDIREQFPLLPSDTRQIAIDSGIKHPVIRGVDQVMSTDFLVDCKDGPFEQFAIQVKP
AAALQDERTLEKLELERRYWQQKQIPWFIFTDKEINPVVKENIEWLYSVKTEEVSAELLAQLSPLAH
ILQEKGDENIINVCKQVDIAYDLELGKTLSEIRALTANGFIKFNIYKSFRANKCADLCISQVVNMEELRY
VAN
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111
>DM_train952
MSWVQLAGHTGSFKAAGTSGLILKRCSEPERYCLARLMADALRGCVPAFHGVVERDGESYLQLQDL
LDGFDGPCVLDCKMGVRTYLEEELTKARERPKLRKDMYKKMLAVDPEAPTEEEHAQRAVTKPRYM
QWREGISSSTTLGFRIEGIKKADGSCSTDFKTTRSREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDTL
EVSEFFRRHEVIGSSLLFVHDHCHRAGVWLIDFGKTTPLPDGQILDHRRPWEEGNREDGYLLGLDN
LIGILASLAER

000000011110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train953
SLRCMQCKTNGDCRVEECALGQDLCRTTIVRLWEEGEELELVEKSCTHSEKTNRTLSYRTGLKITSLT
EVVCGLDLCNQGNSGRAVTYSRSRYLECISCGSSDMSCERGRHQSLQCRSPEEQCLDVVTHWIQEGE
EGRPKDDRHLRGCGYLPGCPGSNGFHNNDTFHFLKCCNTTKCNEGPILELENLPQNGRQCYSCKGN
STHGCSSEETFLIDCRGPMNQCLVATGTHEPKNQSYMVRGCATASMCQHAHLGDAFSMNHIDVSCC
TKSGCNHPD
000000000000000000000000000000000011100000000000000000000000000000000
000000000011111111111000000000000000000000000000000000000111111111100
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011100000000000000000000000
>DM_train954
MTDTTNSIKHVISPLARQTLQDRDLTRPVAGKRPIRLLPWLQVVKIGGRVMDRGADAILPLVEELRK
LLPEHRLLILTGAGVRARHVFSVGLDLGLPVGSLAPLAASEAGQNGHILAAMLASEGVSYVEHPTVAD
QLAIHLSATRAVVGSAFPPYHHHEFPGSRIPPHRADTGAFLLADAFGAAGLTIVENVDGIYTADPNGP
DRGQARFLPETSATDLAKSEGPLPVDRALLDVMATARHIERVQVVNGLVPGRLTAALRGEHVGTLIR
TGVRPA
111111111111111111111111111100000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train955
MAHHHHHHGICSSAPTLGEIWKRKLNQLDAKEFMAYRRRFVVEVDRNEAREALAKGKTNTGHAVS
RGTAKLAWIDERGGVELKGTVVDLGCGRGSWSYYAASQPNVREVKAYTLGTSGHEKPRLVETFGWN
LITFKSKVDVTKMEPFQADTVLCDIGESNPTAAVEASRTLTVLNVISRWLEYNQGCGFCVKVLNPYSC
DVLEALMKMQARFGGGLIRVPLSRNSTHEMYFVSGIKNNIMGNVTAVSRQLLKRMEEQGGERVVPD
YKFSTGTRSNL
111111111111000000000000000000000000000011111111111111111111000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111111111111
>DM_train956
MTDTYLHETLVFDNKLSYIDNQRDTDGPAILLLPGWCHDHRVYKYLIQELDADFRVIVPNWRGHGL
SPSEVPDFGYQEQVKDALEILDQLGVETFLPVSHSHGGWVLVELLEQAGPERAPRGIIMDWLMWAP
KPDFAKSLTLLKDPERWREGTHGLFDVWLDGHDEKRVRHHLLEEMADYGYDCWGRSGRVIEDAYG
RNGSPMQMMANLTKTRPIRHIFSQPTEPEYEKINSDFAEQHPWFSYAKLGGPTHFPAIDVPDRAAV
HIREFATAIRQGQ
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000011

>DM_train957
MSYYHHHHHHLESTSLYKAGLTRKFFVGGNWKMNGDYASVDGIVTFLNASADNSSVDVVVAPPAPY
LAYAKSKLKAGVLVAAQNCYKVPKGAFTGEISPAMIKDLGLEWVILGHSERRHVFGESDALIAEKTVH
ALEAGIKVVFCIGEKLEEREAGHTKDVNFRQLQAIVDKGVSWENIVIAYEPVWAIGTGKTASGEQAQE
VHEWIRAFLKEKVSPAVADATRIIYGGSVTADNAAELGKKPDIDGFLVGGASLKPDFVKIINARSTALS
CTCW
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>DM_train958
MERLAPAKVNLGLSVRFRREDGYHELHTLFAPFSLADRLVVEPVSSGLHFQGPYGRENLAYRAASLY
LEAAGQPGGVRILLEKRIPEGAGLGGGSSDAAQVLLALQALYPAEVDLFALARTLGADVPFFLLGRGA
EARGVGERLKPLALPPVPAVVFFPGLRVPTPLVYRAVRPEDFGPDLPVEAILEALARGEEPPYWNSLE
GPAFRLFPELKEVRGRMRALGLRGVLMSGSGSAFFGLAEGPDHARRAAEALRAWGRAWAGTLGGG
DAGSGPA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111111
>DM_train959
GSQSSERVVIGSKPFNEQYILANMIAILLEENGYKAEVKEGLGGTLVNYEALKRNDIQLYVEYTGTAYN
VILRKQPPELWDQQYIFDEVKKGLLEADGVVVAAKLGFRDDYALAVRADWAEENGVEKISDLAEFA
DQLVFGSDPEFASRPDGLPQIKKVYGFEFKEVKQMEPTLMYEAIKNKQVDVIPAYTTDSRVDLFNLKI
LEDDKGALPPYDAIIIVNGNTAKDEKLISVLKLLEDRIDTDTMRALNYQYDVEKKDAREIAMSFLKEQ
GLVK
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train960
MTEIKYKVITKDAFALPYTIIKAKNQPTKGVIVYIHGGGLMFGKANDLSPQYIDILTEHYDLIQLSYRL
LPEVSLDCIIEDVYASFDAIQSQYSNCPIFTFGRSSGAYLSLLIARDRDIDGVIDFYGYSRINTEPFKTTN
SYYAKIAQSINETMIAQLTSPTPVVQDQIAQRFLIYVYARGTGKWINMINIADYTDSKYNIAPDELKTL
PPVFIAHCNGDYDVPVEESEHIMNHVPHSTFERVNKNEHDFDRRPNDEAITIYRKVVDFLNAITMV
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001
>DM_train961
MGSSSSGLVPRGSMANYTEKFAAWSVICLTDHTFLDENGTEDDIRELCNESVKTCPFAAAVCVYPKF
VKFINEKIKQEINPFKPKIACVINFPYGTDSMEKVLNDTEKALDDGADEIDLVINYKKIIENTDEGLKE
ATKLTQSVKKLLTNKILKVIIEVGELKTEDLIIKTTLAVLNGNADFIKTSTGKVQINATPSSVEYIIKAIK
EYIKNNPEKNNKIGLKVSGGISDLNTASHYILLARRFLSSLACHPDNFRIGSSSLVIKLRKVISQCPL

1111111111111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111111100000000000000001111
>DM_train962
GMEKRLDYITDLMALGPTANARTIQRRQTAHRLAIAEAWQVKPGEKILEIGCGQGDLSAVLADQVGS
SGHVTGIDIASPDYGAPLTLGQAWNHLLAGPLGDRLTVHFNTNLSDDLGPIADQHFDRVVLAHSLW
YFASANALALLFKNMAAVCDHVDVAEWSMQPTALDQIGHLQAAMIQGLLYAIAPSDVANIRTLITPD
TLAQIAHDNTWTYTAGTIVEDPTLDDAHWEIATTNALLTELKLSTDLRDRVKPLLEAMSHNGTASL
ATFTGRITF
1000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>DM_train963
MPELPEVETIRRTLLPLIVGKTIEDVRIFWPNIIRHPRDSEAFAARMIGQTVRGLERRGKFLKFLLDR
DALISHLRMEGRYAVASALEPLEPHTHVVFCFTDGSELRYRDVRKFGTMHVYAKEEADRRPPLAELG
PEPLSPAFSPAVLAERAVKTKRSVKALLLDCTVVAGFGNIYVDESLFRAGILPGRPAASLSSKEIERLHE
EMVATIGEAVMKGGSTVRTYVNTQGEAGTFQHHLYVYGRQGNPCKRCGTPIEKTVVAGRGTHYCPR
CQR
1000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0001111111111111111111110000000000000000000000000000000000
>DM_train964
QTIKDFLAVAMKKWTAPFEPFQLIDNIYYVGTDGIAVYVIKTSQGLILMDTAMPQSTGMIKDNIAKLG
FKVADIKLILNTHAHLDHTGGFAEIKKETGAQLVAGERDKPLLEGGYYPGDEKNEDLAFPAVKVDRA
VKEGDRVTLGDTTLTAHATPGHSPGCTSWEMTVKDGKEDREVLFFCSGTVALNRLVGQPTYAGIVD
DYRATFAKAKAMKIDVLLGPHPEVYGMQAKRAEMKDGAPNPFIKPGELVTYATSLSEDFDKQLAKQ
TAALEKK
1111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000011
>DM_train965
MAEPTAKAAPYENLMVPSPSMGRDIPVAFLAGGPHAVYLLDAFNAGPDVSNWVTAGNAMNTLAGK
GISVVAPAGGAYSMYTNWEQDGSKQWDTFLSAELPDWLAANRGLAPGGHAAVGAAQGGYGAMAL
AAFHPDRFGFAGSMSGFLYPSNTTTNGAIAAGMQQFGGVDTNGMWGAPQLGRWKWHDPWVHAS
LLAQNNTRVWVWSPTNPGASDPAAMIGQAAEAMGNSRMFYNQYRSVGGHNGHFDFPASGDNGW
GSWAPQLGAMSGDIVGAIR
1111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000

>DM_train966
GQGKLISVKTDVLDLTINTRGGDVEQALLPAYPKELNSTQPFQLLETSPQFIYQAQSGLTGRDGPDNP
ANGPRPLYNVEKDAYVLAEGQNELQVPMTYTDAAGNTFTKTFVLKRGDYAVNVNYNVQNAGEKPL
EISSFGQLKQSITLPPHLDTGSSNFALHTFRGAAYSTPDEKYEKYKFDTIADNENLNISSKGGWVAML
QQYFATAWIPHNDGTNNFYTANLGNGIAAIGYKSQPVLVQPGQTGAMNSTLWVGPEIQDKMAAVAP
HLDLTVD
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000011111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train967
GAHMGDFLASLEQDIKPAFGTNQEDYASYIMNGIIKWGDPVTRVLDDGELLVQQTKNSDRTPLVSVL
LEGPPHSGKTALAAKIAEESNFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQLSCVVVDDIERLL
DYVPIGPRFSNLVLQALLVLLKKAPPQGRKLLIIGTTSRKDVLQEMEMLNAFSTTIHVPNIATGEQLLE
ALELLGNFKDKERTTIAQQVKGKKVWIGIKKLLMLIEMSLQMDPEYRVRKFLALLREEGASPLDFDL
E
11111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111
>DM_train968
MHDANIRVAIAGAGGRMGRQLIQAALALEGVQLGAALEREGSSLLGSDAGELAGAGKTGVTVQSSLD
AVKDDFDVFIDFTRPEGTLNHLAFCRQHGKGMVIGTTGFDEAGKQAIRDAAADIAIVFAANFSVGVN
VMLKLLEKAAKVMGDYTDIEIIEAHHRHKVDAPSGTALAMGEAIAHALDKDLKDCAVYSREGHTGE
RVPGTIGFATVRAGDIVGEHTAMFADIGERLEITHKASSRMTFANGAVRSALWLSGKESGLFDMRDV
LDLNNL
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train969
MPHDPGATRLLAISPHLDDAVLSFGAGLAQAAQDGANVLVYTVFAGAAQPPYSPAAQRMHTIWGLA
PDDDAVLYRRKEDIAALDHLRVAHRHGRFLDSIYRKLPDGRWLTAHVEGRQKLAVNDHSPDSDHDL
VGEVADDIRSIIDEFDPTLVVTCAAIGEHPDHEATRDAALFATHEKNVPVRLWEDLPYAVFKSGAVEL
PQGFRLGSADVSSVKPEMRSQKFQAVERYSSQMVLLNGSENNLFDRLDEHARQNAPHGGYGETTW
PVVRSDDS
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train970
MALKRMGIVSDYEKIRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNRLFFQPHQA
GLSKVQAAEHTLRNINPDVLFEVHNYNITTVENFQHFMDRISNGGLEEGKPVDLVLSCVDNFEARM
TINTACNELGQTWMESGVSENAVSGHIQLIIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTT

MGVVAGILVQNVLKFLLNFGTVSFYLGYNAMQDFFPTMSMKPNPQCDDRNCRKQQEEYKKKVAAL
PKQEVIQ
11111111111110000000000000000000000000000000001111111111111111110000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111000000000000000000000
00000000000000000000000000000000000000000000000111111111
>DM_train971
MGSDKIHHHHHHMSNTVRAISPDITLFNKTLTFQEISQNTREAVIYIHGGAWNDPENTPNDFNQLA
NTIKSMDTESTVCQYSIEYRLSPEITNPRNLYDAVSNITRLVKEKGLTNINMVGHSVGATFIWQILAAL
KDPQEKMSEAQLQMLGLLQIVKRVFLLDGIYSLKELLIEYPEYDCFTRLAFPDGIQMYEEEPSRVMPY
VKKALSRFSIDMHLVHSYSDELLTLRQTNCLISCLQDYQLSFKLYLDDLGLHNDVYKNGKVAKYIFDN
IC
11111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train972
MSSGVDLGTENLYFQSNAMRLRHLSDPDSLPALDKSFAIERPALGLAPDAPPVRILLLYGSLRARSFSR
LAVEEAARLLQFFGAETRIFDPSDLPLPDQVQSDDHPAVKELRALSEWSEGQVWCSPERHGQITSV
MKAQIDHLPLEMAGIRPTQGRTLAVMQVSGGSQSFNAVNTLRLLGRWMRMFTIPNQSSIAKAFQEF
DAAGRMKPSPYYDRIADVMEELVRFTALVRPHREALTDRYSERKAAGHVIDEATDLSSIAIAPQPLPE
SETS
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111111111111
>DM_train973
TTVNETTPIAPAKVLPDAQTVTSVRHWTDTLFSFRVTRPQTLRFRSGEFVMIGLLDDNGKPIMRAYS
IASPAWDEELEFYSIKVPDGPLTSRLQHIKVGEQIILRPKPVGTLVIDALLPGKRLWFLATGTGIAPFAS
LMREPEAYEKFDEVIMMHACRTVAELEYGRQLVEALQEDPLIGELVEGKLKYYPTTTREEFHHMGRI
TDNLASGKVFEDLGIAPMNPETDRAMVCGSLAFNVDVMKVLESYGLREGANSEPREFVVEKAFVGE
GI
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train974
MEALRLGFSPCPNDTFIFYALVHGRVESPVPLEPVLEDVETLNRWALEGRLPLTKLSYAAYAQVRDRY
VALRSGGALGRGVGPLVVARGPLQALEGLRVAVPGRHTTAYFLLSLYAQGFVPVEVRYDRILPMVAQG
EVEAGLIIHESRFTYPRYGLVQVVDLGAWWEERTGLPLPLGAILARRDLGEGLIRALDEAVRRSVAYA
LAHPEEALDYMRAHAQELSDEVIWAHVHTYVNAFSLDVGEEGERAVARLFAEAEARGLAAPSPRPL
FV
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000
>DM_train975
MVRNLVIDITKKPTQNIPPTNEIIEEAITELNVDELLDRLFEKDESGEVITPSRIAKMLEEKAFEIYKE
YEKQVREAYLSAGYSREKLEQSFQQARFSRGGKAFEIIFTKLLNKFGIRYEHDRVIKIYDYITEGEKPAF
IIPSVRTFLNDPSSAILITVKRKVRERWREAVGEAQILRNKFGDEINFWFVGFDEEFTIYSAIAMLDNG
IDRVYVIDGRYDSLIEEIKRISDPNFNEDKYIQKIRRFSDIFDDIIQFLNKHGNKKRGKQLTLV
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111111111
>DM_train976
APAPVKQGPTSVAYVEVNNNSMLNVGKYTLADGGGNAFDVAVIFAANINYDTGTKTAYLHFNENVQ
RVLDNAVTQIRPLQQQGIKVLLSVLGNHQGAGFANFPSQQAASAFAKQLSDAVAKYGLDGVDFDDEY
AEYGNNGTAQPNDSSFVHLVTALRANMPDKIISLYNIGPAASRLSYGGVDVSDKFDYAWNPYYGTWQ
VPGIALPKAQLSPAAVEIGRTSRSTVADLARRTVDEGYGVYLTYNLDGGDRTADVSAFTRELYGSEAV
RTP
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>DM_train978
METLTVHAPSPSTNLPSYGNGAFSLSAPHVPGAGPLLVQVVYSFFQSPNMCLQALTQLEDYIKKHGAS
NPLTLQIISTNIGYFCNADRNLVLHPGISVYDAYHFAKPAPSQYDYRSMNMKQMSGNVTTPIVALAHY
LWGNGAERSVNIANIGLKISPMKINQIKDIIKSGVVGTFPVSTKFTHATGDYNVITGAYLGNITLKTEG
TLTISANGSWTYNGVVRSYDDKYDFNASTHRGIIGESLTRLGAMFSGKEYQILLPGEIHIKESGKR
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>DM_train979
MPLSSQPAILIIGGAEDKVHGREILQTFWSRSGGNDAIIGIIPSASREPLLIGERYQTIFSDMGVKELKV
LDIRDRAQGDDSGYRLFVEQCTGIFMTGGDQLRLCGLLADTPLMDRIRQRVHNGEISLAGTSAGAAV
MGHHMIAGGSSGEWPNRALVDMAVGLGIVPEIVVDQHFHNRNRMARLLSAISTHPELLGLGIDEDT
CAMFERDGSVKVIGQGTVSFVDARDMSYTNAALVGANAPLSLHNLRLNILVHGEVYHQVKQRAFPR
VT
11100000000000000000000000000000000000000000000000000000000000000000000
00000111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000011
>DM_train980
MSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYNPSLKGLNMTGYETQAGEFPMVNN
GHTVQISLPSTMRMTVADGTVYIAQQMHFHWGGASSEISGSEHTVDGIRHVIEIHIVHYNSKYKSYDI
AQDAPDGLAVLAAFVEVKNYPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQHYYTYHG

SLTTPPCTENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLNHRVVESNFPNQE
YTLGSEFQ
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000001111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111
>DM_train981
WGALGHATVAYVAQHYVSPEAASWAQGILGSSSSSYLASIASWADEYRLTSAGKWSASLHFIDAEDN
PPTNCNVDYERDCGSSGCSISAIANYTQRVSDSSLSSENHAEALRFLVHFIGDMTQPLHDEAYAVGGN
KINVTFDGYHDNLHSDWDTYMPQKLIGGHALSDAESWAKTLVQNIESGNYTAQAIGWIKGDNISEPI
TTATRWASDANALVCTVVMPHGAAALQTGDLYPTYYDSVIDTIELQIAKGGYRLANWINEIHGSEIAK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train982
MSIYTLGIDVGSTASKCIILKDGKEIVAKSLVAVGTGTSGPARSISEVLENAHMKKEDMAFTLATGYGR
NSLEGIADKQMSELSCHAMGASFIWPNVHTVIDIGGQDVKVIHVENGTMTNFQMNDKCAAGTGRF
LDVMANILEVKVSDLAELGAKSTKRVAISSTCTVFAESEVISQLSKGTDKIDIIAGIHRSVASRVIGLANR
VGIVKDVVMTGGVAQNYGVRGALEEGLGVEIKTSPLAQYNGALGAALYAYKKAAKSAWSHPQFEK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111
>DM_train983
GASCSGGDKSKAPVVSTADIENAAEVIKYYNTSLGVLKDMVKEKDVNAVLDYMEQKGKTPALSAIVP
PAVVSKDSAIVLNPGNCFNEETRRNLKQNYTGLFQARTEFYANFDTYLSYLKKKDVTNAKKLLDVNY
QLSTQMSEYKQNIFDILSPFTEQAELVLLVDNPLKAQIMSVRKMSSTMQSILNLYARKHRMDGPRIDL
KVAELTKQLDAAKKLPVVNGHEGEMKSYQAFLSQVETFIKQVKKVREKGEYSDADYDMLTSAFETSII
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train984
GMTNVGRPIETHAITVGQGSDARSIAALVRAPAQDERPTCIWLGGYRSDMTGTKALEMDDLAASLG
VGAIRFDYSGHGASGGAFRDGTISRWLEEALAVLDHFKPEKAILVGSSMGGWIALRLIQELKARHDN
PTQVSGMVLIAPAPDFTSDLIEPLLGDRERAELAENGYFEEVSEYSPEPNIFTRALMEDGRANRVMA
GMIDTGCPVHILQGMADPDVPYQHALKLVEHLPADDVVLTLVRDGDHRLSRPQDIDRMRNAIRAMI
EPRP
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111
>DM_train985

GMKSQWECFLQNLGVWEGSFSNFSPEGTLLNDTSSRLCLEGLNNNQTVRLTLSRSGKDDVIREFRSV
GGGLLFFENGSFSEGLIQLGPFSEFGGELAFVHENRRLRLVQLFDRNGHLNGLTLIREHLAGTPVAER
PLLQINDLLGEWRGQAVTIYRDLRPPDIYSTTLKIQLDDAGRLMQSTSFGERTITSTATIKGSIVLFDQ
DPEKQVQVLLLPDGASATSPLKVQLRQPLFLEAGWLIQSDLRQRMIRSYNDKGEWVSLTLVTEERV
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000001000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>DM_train986
GMANLLSTCTSESGNIQHISPQNAGWEYVGFDVWQLKAGESITLPSDERERCLVLVAGLASVKAADS
FFYRIGQRMSPFERIPAYSVYLPHHTEAKVTAETDLELAVCSAPGFGELPVRLISPQEVGVEHRGKGR
NQRLVHNILPDSQLADSLLVVEVYTNAGATSSWPAHKHDTAVEGQETYLEETYYHRFNPPQGFCLQ
RVYTDDRSLDECMAVYNRDVVKVPKGYHPVATIAGYDNYYLNVMAGPLRKWRFTWEENHAWINS
PDYPR
1100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011111
>DM_train987
AMSNNKIKRKDASPEQEAIESFTSLTKCDPKVSRKYLQRNHWNINYALNDYYDKEIGTFTDEVSTVA
HPPVYPKELTQVFEHYINNNLFDIDSLVKFIEELGYNLEDLATLCLAHLLGYKKLEEPLKREDFLSTW
FMQGCSTISDMQECIKTLDVKLHEDLQYFTQIYNYAFNLILDPNRKDIDTDEGIQYWKLFFQPEYPV
RMEPDLLEAWFRFLRDEGKTTISKDTWRMLLLFFKRYPTIQKIISDYDETAAWPFIIDEFYECLQDQ
Q
1111111111100000000000000000000000000000000000000000011111111000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>DM_train988
SDGGKVVAATTAQIQEFTKYAGIAATAYCRSVVPGNKWDCVQCQKWVPDGKIITTFTSLLSDTNGYV
LRSDKQKTIYLVFRGTNSFRSAITDIVFNFSDYKPVKGAKVHAGFLSSYEQVVNDYFPVVQEQLTAHP
TYKVIVTGHSLGGAQALLAGMDLYQREPRLSPKNLSIFTVGGPRVGNPTFAYYVESTGIPFQRTVHKR
DIVPHVPPQSFGFLHPGVESWIKSGTSNVQICTSEIETKDCSNSIVPFTSILDHLSYFDINEGSCL
1111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>DM_train989
ATISRRGILVIRHGERVDQVFGKSWLQQCTTADGKYYRPDLNFPRSLPRRSNGIKDFENDPPLSSCGI
FQARLAGEALLDSGVRVTAVFASPALRCVQTAKHILEELKLEKKLKIRVEPGIFEWMKWEASKATLTF
LTLEELKEANFNVDLDYRPALPRCSLMPAESYDQYVERCAVSMGQIINTCPQDMGITLIVSHSSALDS
CTRPLLGLPPRECGDFAQLVRKIPSLGMCFCEENREDGKWDLVNPPVKTLTHGANSVFNWRNWIS
1111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011
>DM_train990
GMQGKKFISPGAWFSMNYPSDWNEFEDGEGSFLFYNPDVWTGNFRISAFKGNASYGKDAIRQELKE
NDSASLVKIGTWDCAYSKEMFQEEGTYYTSHLWITGTGNIAFECSFTVPKGGSAKEAEEVIATLEARK
EGEKYPAELIPVRLSEIYQINEGYEWVVSTVKQELKKDFQGVEEDLEKIQQVIDSGKISPKKKDEWLA
IGITVCAILTNEVEGMEWKTLIDGNREVPVLEYQGRTIDPMKIAWSKVKAGQPCNIAEAYQSAIDHH
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train991
GSHMEEKRLSAKKGLPPGTLVYTGKYREDFEIEVMNYSIEEFREFKTTDVESVLPFRDSSTPTWINIT
GIHRTDVVQRVGEFFGTHPLVLEDILNVHQRPKVEFFENYVFIVLKMFTYDKNLHELESEQVSLILTK
NCVLMFQEKIGDVFDPVRERIRYNRGIIRKKRADYLLYSLIDALVDDYFVLLEKIDDEIDVLEEEVLER
PEKETVQRTHQLKRNLVELRKTIWPLREVLSSLYRDVPPLIEKETVPYFRDVYDHTIQIADTVE
11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001100000000000000000000
00000000000000000000000000000000000000000000000000000000000011111110000
00000000000000000000000000000000001111111111111111111111
>DM_train992
MIVVKVGGAEGINYEAVAKDAASLWKEGVKLLLVHGGSAETNKVAEALGHPPRFLTHPGGQVSRLTD
RKTLEIFEMVYCGLVNKRLVELLQKEGANAIGLSGLDGRLFVGRRKTAVKYVENGKVKVHRGDYTGT
VEEVNKALLDLLLQAGYLPVLTPPALSYENEAINTDGDQIAALLATLYGAEALVYLSNVPGLLARYPD
EASLVREIPVERIEDPEYLALAQGRMKRKVMGAVEAVKGGVKRVVFADGRVENPIRRALSGEGTVVR
00000000000000000000000000000000000000000000000000000011111110000000000
00000000000000000000000000000000000000000011111111111111110000000000000
00000000000000000000000000000000000000000000000000000000111111000000000
00000000000000000000000000000000000000000000000000000000
>DM_train994
NGHLQHHPPMPPHPGHYWPVHNELAFQPPISNHPAPEYWCSIAYFEMDVQVGETFKVPSSCPIVTV
DGYVDPSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECKGEGDVWVRCLSDHAVFVQSYYLDR
EAGRAPGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQAAAAAQAAAVAGNIPGPGSVGGIAPAISL
SAAAGIGVDDLRRLCILRMSFVKGWGPDYPRQSIKETPCWIEIHLHRALQLLDEVLHTMPIADPQPL
D
00000000000011111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111111111111111111000000000000
0000000000000000000000000000000000000000000000001111111
>DM_train995
MNRVDLSLFIPDSLTAETGDLKIKTYKVVLIARAASIFGVKRIVIYHDDADGEARFIRDILTYMDTPQY
LRRKVFPIMRELKHVGILPPLRTPHHPTGKPVTGEYRQGLTVKRVKKGTLVDIGADKLALCREKLTV
NRIMSFRVVRLGKEILIEPDEPEDRYWGYEVLDTRRNLAESLKTVGADVVVATSRNASPITSILDEVK
TRMRGAREAAILFGGPYKGLPEIDADIWVNTLPGQCTETVRTEEAVLATLSVFNMLTQIDEKDE

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000111111
>DM_train996
MERYESLFAQLKERKEGAFVPFVTLGDLGIEQSLKIIDTLIEAGADALELGIPFSDPLADGPTIQNATL
RAFAAGVTPAQCFEMLAIIREKHPTIPIGLLMYANLVFNKGIDEFYARCEKVGVDSVLVADVPVEESAP
FRQAALRHNVAPIFICPPNADDDLLRQIASYGRGFTYLLSRAGVTGAENRAALPLNHLVAKLKEYNA
APPLQGFGISAPDQVKAAIDAGAAGAISGSAIVKIIEQHINEPEKMLAALKVFVQPMKAATRS
000000000000000000000000000000000000000000000000000011111111111111111
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011111111000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train997
MIQITVIQIDNYGPWTVTPNPRRESDLQALQSRLYADLNLMFGAHKGLVFYTRFDNLIAITNGIDLIT
HKRIQESIRNRYPFTVSMVIASAETPYEAQKLATETLQEYGSAQDENRKEVLDVANELVVDGYVQIAH
IDINNITGTLTDIVSAYDTYLNVNKVKLALMEELLKYNALLFFIGGDNFMAPSNGMSEEDFLDIFNRI
NKKYKIELKAGIGIGRTAEDASNLADIGLEKIRGKLVDKNVCTLKQDDFLESKMGMGKIYHPQF
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111111111111
>DM_train999
MKDRTQELRTAKDSDDDDDVTVTVDRDRFMDEFFEQVEEIRGFIDKIAENVEEVKRKHSAILASPN
PDEKTKEELEELMSDIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVMSEY
NATQSDYRERCKGRIQRQLEITGRTTTSEELEDMLESGNPAIFASGIIMDSSISKQALSEIETRHSEIIKL
ENSIRELHDMFMDMAMLVESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKIM
111111111111111111111111100000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111111111111111
>DM_train1001
SEDNGVDFNKNTALDKNYLLNNKIPSNNVEEAGSKNYVHYIIQLQGDDISYEATCNLFSKNPKNSIII
QRNMNESAKSYFLSDDGESILELNKYRIPERLKNKEKVKVTFIGHGKDEFNTSEFARLSVDSLSNEIS
SFLDTIKLDISPKNVEVNLLGCNMFSYDFNVEETYPGKLLLSIMDKITSTLPDVNKNSITIGANQYEV
RINSEGRKELLAHSGKWINKEEAIMSDLSSKEYIFFDSIDNKLKAKSKNIPGLASISEDIKTL
111110000000000000000000000011111110000000000000000000000000000000000000
000000000000000000000000000000000000000000011111000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000111111
>DM_train1002
GMHTDVNALFAALWQDYIKMTPSAAKIHQLLGHGAPIINDHIALRTFNIAKVNLSVLAKHFTSIGYV
DSGDYKFEQKKLIAKHFEHPDPKQPKVFISELLVEEFSPEVQKSIHGLIDQVDIAATTADNFIYSGRH
WDVDKATYQALLAESEYAAWVAALGYRANHFTVSINDLPEFERIEDVNQALKQAGFVLNSSGGEVK

GSPEVLLEQSSTMADKVVVNFTDGDVEIPSCFYEFARRYPMANGQLYTGFVAASADKIFESTNAMM
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111
>DM_train1003
MKEGKHFVLVHGACHGGWSWYKLKPLLEAAGHKVTALDLAASGTDLRKIEELRTLYDYTLPLMEL
MESLSADEKVILVGHSLGGMNLGLAMEKYPQKIYAAVFLAAFMPDSVHNSSFVLEQYNERTPAENW
LDTQFLPYGSPEEPLTSMFFGPKFLAHKLYQLCSPEDLALASSLVRPSSLFMEDLSKAKYFTDERFGS
VKRVYIVCTEDKGIPEEFQRWQIDNIGVTEAIEIKGADHMAMLCEPQKLCASLLEIAHKYNMAGDPL
E
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111111
>DM_train1004
MAPHGDGLSDIEEPEVDAQSEILRPISSVVFVIAMQAEALPLVNKFGLSETTDSPLGKGLPWVLYHGV
HKDLRINVVCPGRDAALGIDSVGTVPASLITFASIQALKPDIIINAGTCGGFKVKGANIGDVFLVSDVVF
HDRRIPIPMFDLYGVGLRQAFSTPNLLKELNLKIGRLSTGDSLDMSTQDETLIIANDATLKDMEGAAV
AYVADLLKIPVVFLKAVTDLVDGDKPTAEEFLQNLTVVTAALEGTATKVINFINGRNLSDL
11111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1005
MKGFQFKVIQEKLQGRQFINSDKIKPDHPQTIIKKTLLKEYQSKNFSCQEERDLFLEFTEKIVQNFHN
INFNYLLKKFCKLPENYQSLKSQVKQIVQSENKANQQSCENLFNSLYDTEISYKQITNFLRQIIQNCVP
NQLLGKKNFKVFLEKLYEFVQMKRFENQKVLDYICFMDVFDVEWFVDLKNQKFTQKRKYISDKRKI
LGDLIVFIINKIVIPVLRYNFYITEKHKEGSQIFYYRKPIWKLVSKLTIVKLEEENLEKVEEKL
11111100000001111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1006
MVDSHVHTPLCGHAEGHPEAYLEEARAKGLKGVVFTDHSPMPPWYDPESRMRLEALPFYLLALER
VRERAQDLYVGIGLEADFHPGTEGFLAQLLRRYPFDYVIGSVHYLGAWPLDHPDHQEEYAWRDLKE
VFRAYFQEVEKAARSGLFHAIGHLDLPKKFGHRLPEEALLELAEPALRAVAEAGLFLDVNTAGLRRP
AKEVYPAPALLRRARELGIGLVLGSDAHRPEEVGFAFPEVQALLAGLGFREAYYFVEGSPVAYPLSRAS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111
>DM_train1007
MRLIPLTTAEQVGKWAARHIVNRINAFKPTADRPFVLGLPTGGTPMTTYKALVEMHKAGQVSFKHV

VTFNMDEYVGLPKEHPESYYSFMHRNFFDHVDIPAENINLLNGNAPDIDAECRQYEEKIRSYGKIHL
FMGGVGNDGHIAFNEPASSLASRTRIKTLTHDTRVANSRFADNDVNQVPKYALTVGVGTLLDAEEVM
ILVLGSQKALALQAAVEGCVNHMWTISCLQLHPKAIMVCDEPSTMELKVKTLRYFNELEAENIKGL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111111111111110000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train1008
MTPDFLAIKVGGSLFSRKDEPGSLDDDAVTRFARNFARLAETYRGRMVLISGGGAFGHGAIRDHDST
HAFSLAGLTEATFEVKKRWAEKLRGIGVDAFPLQLAAMCTLRNGIPQLRSEVLRDVLDHGALPVLAG
DALFDEHGKLWAFSSDRVPEVLLPMVEGRLRVVTLTDVDGIVTDGAGGDTILPEVDARSPEQAYAAL
WGSSEWDATGAMHTKLDALVTCARRGAECFIMRGDPGSDLEFLTAPFSSWPAHVRSTRITTTASA
000000000000000000000000000000000000000000000000000000000111111111111000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001110000000000000000000000001111000
000000000000000000000000000000000000000000000000001111
>DM_train1009
MHDLRISLVQGSTRWHDPAGNRDYYGALLEPLAGQSDLVILPETFTSGFSNEAIDKAEDMDGPTVA
WIRTQAARLGAAITGSVQLRTEHGVFNRLLWATPDGALQYYDKRHLFRFGNEHLRYAAGRERLCVE
WKGWRINPQVCYDLRFPVFCRNRFDVERPGQLDFDLQLFVANWPSARAYAWKTLLRARAIENLCF
VAAVNRVGVDGNQLHYAGDSAVIDFLGQPQVEIREQEQVVTTTISAAALAEHRARFPAMLDGDSFVL
GE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001
>DM_train1010
SNANFDTNMFKLENYVKEKYSLESLEIIPNEFDDTPTILSERISQVAAGVLRNLIDDNMKIGFSWGKS
LSNLVDLIHSKSVRNVHFYPLAGGPSHIHAKYHVNTLIYEMSRKFHGECTFMNATIVQENKLLADGIL
QSRYFENLKNSWKDLDIAVVGIGDFSNKGKHQWLDMLTEDDFKELTKVKTVGEICCRFFDSKGKEV
YENLQERTIAISLEDLKNIPQSLAVAYGDTKVSSILSVLRANLVNHLITDKNTILKVLEEDGDL
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001
>DM_train1011
RPSSRVYIVEVLNEFPHDPYAFTQGLVYAENDTLFESTGLYGRSSVRQVALQTGKVENIHKMDDSYFG
EGLTLLNEKLYQVVWLKNIGFIYDRRTLSNIKNFTHQMKDGWGLATDGKILYGSDGTSILYEIDPHTF
KLIKKHNVKYNGHRVIRLNELEYINGEVWANIWQTDCIARISAKDGTLLGWILLPNLRKKLIDEGFR
DIDVLNGIAWDQENKRIFVTGKLWPKLFEIKLHLVRHRIPDGYIERHCLNLRDNTLSLKTDID
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111111111111

>DM_train1012
GMSADIVFDRGSPSDIDEIKTFTSNTWKVGYYTDLYSKLADTGTMDDYVDKVIERWVNDGSVYVLR
VSGRPVATIHMEKLPDGSVMLGGLRVHPEYRGSRLGMSIMQETIQFLRGKTERLRSAVYSWNEPSLR
LVHRLGFHQVEEYPIYTFQGGSTAVPALKPVNERYAGRWRCFFIDWKYMCSDDPDIIHEEYSNNLIV
DGSTFVYFDIYEGGIDLFVNDSDDASSFIEKYRSMNGRITFYVRKALANGLPYVPASSLTVWEYRY
1111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000001111000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train1013
MNITPFPTLSPATIDAINVIGQWLAQDDFSGEVPYQADCVILAGNAVMPTIDAACKIARDQQIPLLISG
GIGHSTTFLYSAIAQHPHYNTIRTTGRAEATILADIAHQFWHIPHEKIWIEDQSTNCGENARFSIALLN
QAVERVHTAIVVQDPTMQRRTMATFRRMTGDNPDAPRWLSYPGFVPQLGNNADSVIFINQLQGLW
PVERYLSLLTGELPRLRDDSDGYGPRGRDFIVHVDFPAEVIHAWQTLKHDAVLIEAMESRSLR
1111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000111
>DM_train1014
GSHMQAEILLTLKLQQKLFADPRRISLLKHIALSGSISQGAKDAGISYKSAWDAINEMNQLSEHILVER
ATGGKGGGGAVLTRYGQRLIQLYDLLAQIQQKAFDVLSDDDALPLNSLLAAISRFSLQTSARNQWFGT
ITARDHDDVQQHVDVLLADGKTRLKVAITAQSGARLGLDEGKEVLILLKAPWVGITQDEAVAQNAD
NQLPGIISHIERGAEQCEVLMALPDGQTLCATVPVNEATSLQQGQNVTAYFNADSVIIATLC
1110000000000000000000000000000000000000000000000000000000000000111
1111111000000000000000000000000000000000000000000000000000000000011
1111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train1015
MRVLALSAVFLVASIIGMPAVAKEWQENKSWNAHFTEHKSQGVVVLWNENKQQGFTNNLKRANQA
FLPASTFKIPNSLIALDLGVVKDEHQVFKWDGQTRDIATWNRDHNLITAMKYSVVPVYQEFARQIGE
ARMSKMLHAFDYGNEDISGNVDSFWLDGGIRISATEQISFLRKLYHNKLHVSERSQRIVKQAMLTEA
NGDYIIRAKTGYSTRIEPKIGWWVGWVELDDNVWFFAMNMDMPTSDGLGLRQAITKEVLKQEKIIP
1111111111111111111111100000000000000000000000110000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train1016
MNDIVASTQLPNTIKTITNDLRKLGLKKGMTVIVHSSLSSIGWISGGAVAVVEALMEVITEEGTIIMPT
QSSDLSDPKHWSRPPVPEEWWQIIRDNVPAFEPHITPTRAMGKVVECFRTYPNVVRSNHPLGSFAA
WGRHAEEITVNQSLSMSLGEESPLRKIYDLDGYILLIGVGYDSNTSVHLSEVRSGACELIKVGAPIIEN
GERVWKEFVDMDYDSDKFVEIGVEFEQKGTVTMGKIGNAKCRLMKQRDIVDFGTEWFRKKN
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000001
>DM_train1017
TQSSKLIAVIVANIDDYFSTELFKGISSILESRGYIGVLFDANADIEREKTLLRAIGSRGFDGLILQSFSNP
QTVQEILHQQMPVVSVDREMDACPWPQVVTDNFEAAKAATTAFRQQGYQHVVVLTSELELSRTRQ
ERYRGILAAAQDVDVLEVSESSYNHSEVHQRLTQLITQNDQKTVAFALKERWLLEFFPNLIISGLIDN
QTVTATGFADTDFIRRMEPKLTLITQNPFLMGASSAEIMLRQLAGEKVAPEKMVIPAKLQ
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001000000000000000000000000000
00000000000000000000000000000001111000000000000000000000000000000000
00000000011000000000000000000000000000000000000000
>DM_train1018
MAEYKDNLLGEANSFLEVLEQVSHLAPLDKPVLIIGERGTGKELIASRLHYLSSRWQGPFISLNCAAL
NENLLDSELFGHEAGAFTGAQKRHPGRFERADGGTLFLDELATAPMMVQEKLLRVIEYGELERVGG
SQPLQVNVRLVCATNADLPAMVNEGTFRADLLDALAFDVVQLPPLRERESDIMLMAEYFAIQMCREI
KLPLFPGFTERARETLLNYRWPGNIRELKNVVERSVYRHGTSDYPLDDIIIDPFKRRPPEDAIA
11111111100000000000000000000000000000000000000000000000000000000000
00000000011111111100000000000000000000000000000000000000000011000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111
>DM_train1021
MKILVAVKQTAALEEDFEIREDGMDVDEDFMMYDLNEWDDFSLEEAMKIKESSDTDVEVVVVSVGP
DRVDESLRKCLAKGADRAVRVWDDAAEGSDAIVVGRILTEVIKKEAPDMVFAGVQSSDQAYASTGISV
ASYLNWPHAAVVADLQYKPGDNKAVIRRELEGGMLQEVEINCPAVLTIQLGINKPRYASLRGIKQAAT
KPIEEVSLADIGLSANDVGAAQSMSRVRRMYIPEKGRATMIEGTISEQAAKIIQIINEFKGA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111111111111111
>DM_train1022
GHMSLHPVSISLSSYGADLVRSRGQASFLPLLAMAGAQRVELREELFAGPPDTEALTAAIQLQGLECV
FSSPLELWREDGQLNPELEPTLRRAEACGAGWLKVSLGLLPEQPDLAALGRRLARHGLQLLVENDQ
TPQGGRIEVLERFFRLAERQQLDLAMTFDIGNWRWQEQAADEAALRLGRYVGYVHCKAVIRNRDG
KLVAVPPSAADLQYWQRLLQHFPEGVARAIEYPLQGDDLLSLSRRHIAALARLGQPQEERQHGGS
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111
>DM_train1023
SNAMNHLPEKMRPYRDLLEKSAKEYVKLNVRKGKTGRYDSKIAGDPYFPKHETYPTDENGQPMKL
LAQINFSHIPQLDGYPSSGILQFYISVHDDVYGLNFDDRCEQKNFRVIYFENIVENDDELVSDFSFIGTG
ECDFPILSEAAVEPVKSSEWVLPTDFQFEQYTGMETMEFFGQFGEDEEDIYNELAENGFGHKIGGYA
SFTQHDPREYAYKEHTIMLLQIDSDDDIDSMWGDVGIANFFITPEDLRKKDFSNVLYNWDCS
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train1024
SLLSNQLHFAKPTARTPLVVLVHGLLGSGADWQPVLSHLARTQCAALTLDLPGHGTNPERHCDNFA
EAVEMIEQTVQAHVTSEVPILVGYSLGGRLIMHGLAQGAFSRLNLRGAIIEGGHFGLQENEEKAAR
WQHDQQWAQRFSQQPIEHVLSDWYQQAVFSSLNHEQRQTLIAQRSANLGSSVAHMLLATSLAKQP
YLLPALQALKLPIHYVCGEQDSKFQQLAESSGLSYSQVAQAGHNVHHEQPQAFAKIVQAMIHSIID
00000000000000000000000000000000000000000000000000000000001111111000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train1025
RPSWSPTQASGQTVLPFTGIDFRLSPSGVAVDSAGNVYVTSEGMYGRVVKLATGSTGTTVLPFNGLYQ
PQGLAVDGAGTVYVTDFNNRVVTLAAGSNNQTVLPFDGLNYPEGLAVDTQGAVYVADRGNNRVVK
LAAGSKTQTVLPFTGLNDPDGVAVDNSGNVYVTDTDNNRVVKLEAESNNQVVLPFTDITAPWGIAV
DEAGTVYVTEHNTNQVVKLLAGSTTSTVLPFTGLNTPLAVAVDSDRTVYVADRGNDRVVKLTSLE
11111111111000000000000000000000000000000000000000001111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train1027
MVRTITVASGKGGTGKTTITANLGVALAQLGHDVTIVDADITMANLELILGMEGLPVTLQNVLAGEA
RIDEAIYVGPGGVKVVPAGVSLEGLRKANPEKLEDVLTQIMESTDILLLDAPAGLERSAVIAIAAAQEL
LLVVNPEISSITDGLKTKIVAERLGTKVLGVVVNRITTLGIEMAKNEIEAILEAKVIGLIPEDPEVRRAA
AYGKPVVLRSPNSPAARAIVELANYIAGGAKKKVPAEVKEKKKEGALAKMLRIFRRR
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111111111111111111111111
>DM_train1028
MANLTEKFLRIFARRGKSIILAYDHGIEHGPADFMDNPDSADPEYILRLARDAGFDGVVFQRGIAEKY
YDGSVPLILKLNGKTTLYNGEPVSVANCSVEEAVSLGASAVGYTIYPGSGFEWKMFEELARIKRDAVK
FDLPLVVESFPRGGKVVNETAPEIVAYAARIALELGADAMKIKYTGDPKTFSWAVKVAGKVPVLMSG
GPKTKTEEDFLKQVEGVLEAGALGIAVGRNVWQRRDALKFARALAELVYGGKKLAEPLNV
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111
>DM_train1029
MWELRSASFWRAIFAEFFATLFYVFFGLGASLRWAPGPLHVLQVALAFGLALATLVQAVGHISGAHV
NPAVTFAFLVGSQMSLLRAICYVVAQLLGAVAGAAVLYSVTPPAVRGNLALNTLHPGVSVGQATIVEIF
LTLQFVLCIFATYDERRNGRLGSVALAVGFSLTLGHLFGMYYTGAGMNPARSFAPAILTRNFTNHWVY
WVGPVIGAGLGSLLYDFLLFPRLKSVSERLSILKGTRPSESNGQPEVTGEPVELKTQAL
11110000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001111111111111111111111111
>DM_train1030
GMSNKKLIINADDFGYTPAVTQGIIEAHKRGVVTSTTALPTSPYFLEAMESARISAPTLAIGVHLTLTL
NQAKPILPREMVPSLVDEAGYFWHQSIFEEKVNLEEVYNEWDAQIISFMKSGRRPDHIDSHHNVHG
KNKKLLGVALALARKYQLPLRNASRSIETKDYLELYQDVRTPDEMLYQFYDKAISTETILQLLDMVVC
SEGEVFEINCHPAFIDTILQNQSGYCMPRIREVEILTSQEVKEAIEERGILLANYESLAM
110000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1031
GAMDPAVMKIEYYSQVLDMEWGVNVLYPDANRVEEPECEDIPVLYLLHGMSGNHNSWLKRTNVER
LLRGTNLIVVMPNTSNGWYTDTQYGFDYYTALAEELPQVLKRFFPNMTSKREKTFIAGLSMGGYGC
FKLALTTNRFSHAASFSGALSFQNFSPESQNLGSPAYWRGVFGEIRDWTTSPYSLESLAKKSDKKTKL
WAWCGEQDFLYEANNLAVKNLKKLGFDVTYSHSAGTHEWYYWEKQLEVFLTTLPIDFKLEERLT
000000000000000000000000000001111111110000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001
>DM_train1032
EQASVTNDFSENKQGCIQHPWQGKKVGYIGDSITDPNCYGDNIKKYWDFLKEWLGITPFVYGISGRQ
WDDVPRQAEKLKKEHGGEVDAILVFMGTNDYNSSVPIGEWFTEQEEQVLSAHGEMKKMVTRKKR
TPVMTQDTYRGRINIGITQLKKLFPDKQIVLLTPLHRSLANFGDKNVQPDESYQNGCGEYIDAYVQAI
KEAGNIWGIPVIDFNAVTGMNPMVEEQLIYFYDAGYDRLHPDTKGQERMARTLMYQLLALPVAF
111111111111111100000000000000000001111000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1033
MSWYPGHIEKAKRQIKDLLRLVNTVVEVRDARAPFATSAYGVDFSRKETIILLNKVDIADEKTTKKW
VEFFKKQGKRVITTHKGEPRKVLLKKLSFDRLARVLIVGVPNTGKSTIINKLKGKRASSVGAQPGITKG
IQWFSLENGVKILDTPGILYKNIFSEDLAAKLLLVGSLPVERIEDQRIFERAFEIFARSIGIESSFSEFFED
FARKRGLLKKGGVPDIERALMLFFTEVAQGKAGRVSFERPEDITPVQQEQTRGV
111111110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111111000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111
>DM_train1034
MSFTVIIPARFASSRLPGKPLADIKGKPMIQHVFEKALQSGASRVIIATDNENVADVAKSFGAEVCMTS
VNHNSGTERLAEVVEKLAIPDNEIIVNIQGDEPLIPPVIVRQVADNLAKFNVNMASLAVKIHDAEELF
NPNAVKVLTDKDGYVLYFSRSVIPYDRDQFMNLQDVQKVQLSDAYLRHIGIYAYRAGFIKQYVQWAP
TQLENLEKLEQLRVLYNGERIHVELAKEVPAVGVDTAEDLEKVRAILAANGSHHHHHH

10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000011111111
>DM_train1035
MSSGVDLGTENLYFQSNAMKMTVVGFWGGFPEAGEATSGYLFEHDGFRLLVDCGSGVLAQLQKYIT
PSDIDAVVLSHYHHDHVADIGVLQYARLITSATKGQLPELPIYGHTFDENGFHSLTHEPHTKGIPYNPE
ETLQIGPFSISFLKTVHPVTCFAMRITAGNDIVVYSADSSYIPEFIPFTKDADLFICECNMYAHQEAAK
AGHMNSTEVASIAKDANVKELLLTHLPHTGNPADLVTEAKQIFSGHITLAHSGYVWNS
11111111111111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000
>DM_train1036
MEGRLLLLETPGNTRMSLAYDEAIYRSFQYGDKPILRFYRHDRSVIIGYFQVAEEEVDLDYMKKNGI
MLARRYTGGGAVYHDLGDLNFSVVRSSDDMDITSMFRTMNEAVVNSLRILGLDARPGELNDVSIPV
NKKTDIMAGEKKIMGAAGAMRKGAKLWHAAMLVHTDLDMLSAVLKVPDEKFRDKIAKSTRERVA
NVTDFVDVSIDEVRNALIRGFSETLHIDFREDTITEKEESLARELFDKKYSTEEWNMGLLRKEVV
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111111100000000000000000000000
0000000000000000000000000000000000000000000000000111111
>DM_train1037
MAVTAQAARRKERVLCLFDVDGTLTPARQKIDPEVAAFLQKLRSRVQIGVVGGSDYCKIAEQLGDGD
EVIEKFDYVFAENGTVQYKHGRLLSKQTIQNHLGEELLQDLINFCLSYMALLRLPKKRGTFIEFRNGM
LNISPIGRSCTLEERIEFSELDKKEKIREKFVEALKTEFAGKGLRFSRGGMISFDVFPEGWDKRYCLDS
LDQDSFDTIHFFGNETSPGGNDFEIFADPRTVGHSVVSPQDTVQRCREIFFPETAHEA
11111111111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001111
>DM_train1038
MIFVLDVGNTNAVLGVFEEGELRQHWRMETDRHKTEDEYGMLVKQLLEHEGLSFEDVKGIIVSSVV
PPIMFALERMCEKYFKIKPLVVGPGIKTGLNIKYENPREVGADRIVNAVAGIHLYGSPLIIVDFGTATTY
CYINEEKHYMGGVITPGIMISAEALYSRAAKLPRIEITKPSSVVGKNTVSAMQSGILYGYVGQVEGIVK
RMKEEAKQEPKVIATGGLAKLISEESNVIDVVDPFLTLKGLYMLYERNANLQHEKGE
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111110000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000011111111
>DM_train1039
GMATLGANASLYSEQHRITYYECDRTGRATLTTLIDIAVLASEDQSDALGLTTEMVQSHGVGWVVTQ
YAIDITRMPRQDEVVTIAVRGSAYNPYFAYREFWIRDADGQQLAYITSIWVMMSQTTRRIVKILPELV
APYQSEVVKRIPRLPRPISFEATDTTITKPYHVRFFDIDPNRHVNNAHYFDWLVDTLPATFLLQHDL

VHVDVRYENEVKYGQTVTAHANILPSEVADQVTTSHLIEVDDEKCCEVTIQWRTLPEPIQ
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111
>DM_train1041
SPTVEACGYSDRIIQITRGDSTITSQDVANAIVAYGVWPHYLSSKDASAIDKPSQPDTSSNRFYTLRSV
TWSSSSKGWWWKLPDALKDMGIFGENMFYHYLGRSGYTIHVQCNASKFHQGTLIVALIPEHQIASA
LHGNVNVGYNYTHPGETGREVKAETRLNPDLQPTEEYWLNFDGTLLGNITIFPHQFINLRSNNSATI
IAPYVNAVPMDSMRSHNNWSLVIIPICPLETSSAINTIPITISISPMCAEFSGARAKRQ
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1042
NLSDFKVATWNLQGSSAVNESKWNINVRQLLSGEQGADILMVQEAGSLPSSAVRTSRVIQHGGTPIE
EYTWNLGTRSRPNMVYIYYSRLDVGANRVNLAIVSRRQADEAFIVHSDSSVLQSRPAVGIRIGTDVFF
TVHALATGGSDAVSLIRNIFTTFNSSSSPPERRVYSWMVVGDFNRAPANLEVALRQEPAVSENTIIIAP
TEPTHRSGNILDYAILHDAHLPRREQARERIGASLMLNQLRSQITSDHFPVSFVRDR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1043
EPVKYGELVVLGYNGALPNGDRGRRKSRFALYKRPKANGVKPSTVHMISTPQASKAISCKGQHSISYT
LSRNQTVVVEYTHDKDTDMFQVGRSTESPIDFVVTDTISGSQNTDEAQITQSTISRFACRIVCDRNEP
YTARIFAAGFDSSKNIFLGEKAAKWKNPDGHMDGLTTNGVLVMHPRGGFTEESQPGVWREISVCGD
VYTLRETRSAQQRGKMVESETNVLQDGSLIDLCGATLLWRTADGLFHTPTQKHIEALRQ
00000000000001111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111000000000000000000000000
00000000000000000000000000000000000011111000000000000000000000000000
00000000000000000000000000000001111111111111111
>DM_train1044
QQGKFDTKGIESTDEAKMSFLVTLNNVEVCSENISTLKKTLESDCTKLFSQGIGGEQAQAKFDSCLSD
LAAVSNKFRDLLQEGLTELNSTAIKPQVQPWINSFFSVSHNIEEEEFNDYEANDPWVQQFILNLEQQ
MAEFKASLSPVIYDSLTGLMTSLVAVELEKVVLKSTFNRLGGLQFDKELRSLIAYLTTVTTWTIRDKFA
RLSQMATILNLERVTEILDYWGPNSGPLTWRLTPAEVRQVLALRIDFRSEDIKRLRL
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1045
IAPTVWKLADRSKIYMADLESALHYILRIEVGRFPVLEGQRLVALKKFVAVLAKYFPGRPLVQNFLHS
VNEWLKRQKRNKIPYSFFKTALDDRKEGAVLAKKVNWIGCQGSEPHFRGFPCSLWVLFHFLTVQAA

RQNVDHSQEAAKAKEVLPAIRGYVHYFFGCRDCASHFEQMAAASMHRVGSPNAAVLWLWSSHNRV
NARLAGAPSEDPQFPKVQWPPRELCSACHNERLDVPVWDVEATLNFLKAHFSPSNIILDFPA
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111111
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111
>DM_train1047
MVVLSVPAEVTVILLDIEGTTTPIAFVKDILFPYIEENVKEYLQTHWEEEECQQDVSLLRKQAEEDAH
LDGAVPIPAASGNGVDDLQQMIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAEFF
ADVVPAVRKWREAGMKVYIYSSGSVEAQKLLFGHSTEGDILELVDGHFDTKIGHKVESESYRKIADSI
GCSTNNILFLTDVTREASAAEEADVHVAVVVRPGNAGLTDDEKTYYSLITSFSELYLPSST
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000010000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111
>DM_train1048
DKLPIEETLEDSPQTRSLLGVFEEDATAISNYMNQLYQAMHRIYDAQNELSAATHLTSKLLKEYEKQR
FPLGGDDEVMSSTLQQFSKVIDELSSCHAVLSTQLADAMMFPITQFKERDLKEILTLKEVFQIASNDH
DAAINRYSRLSKKRENDKVKYEVTEDVYTSRKKQHQTMMHYFCALNTLQYKKKIALLEPLLGYMQA
QISFFKMGSENLNEQLEEFLANIGTSVQNVRREMDSDIETMQQTIEDLEVASDPLYVPD
11111111000000000000000000000000000000000000000000000000000000000000000001
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train1049
MGAGEKGIVEKEGYQLDTRRQAQAAYPRIKVLVIHYTADDFDSSLATLTDKQVSSHYLVPAVPPRYNG
KPRIWQLVPEQELAWHAGISAWRGATRLNDTSIGIELENRGWQKSAGVKYFAPFEPAQIQALIPLAK
DIIARYHIKPENVVAHADIAPQRKDDPGPLFPWQQLAQQGIGAWPDAQRVNFYLAGRAPHTPVDTA
SLLELLARYGYDVKPDMTPREQRRVIMAFQMHFRPTLYNGEADAETQAIAEALLEKYGQD
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1050
MHNNENVSGISAYLLGLIWGDGGLYKLKYKGNRSEYRVVITQKSENLIKQFIAPRMQFLIDELNVKSK
IQIVKGDTRYELRVSSKKLYYYFANMLERIRLFNGNRFLAYLAGIVDGDGSIIAQIKPNQSYKFKHQLSL
TFQVTQKTERRWFLDKLVDEIGVGYVRDRGSVSDYILSEIKPLHNFLTQLQPFLNFKQKQANLVLKIIE
QLPSAKESPDKFLEVCTWVDQIAALNDSKTRKTTSETVRAVLDSLSEKKKSSP
11111100000000000000000000011110000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111
>DM_train1051
MVGVTAFGNFDLASLAIYSFWIFLAGLIYYLQTENMREGYPLENEDGTPAANQGPFPLPKPKTFILPH

GRGTLTVPGPESEDRPIALARTAVSEGFPHAPTGDPMKDGVGPASWVARRDLPELDGHGHNKIKPM
KAAAGFHVSAGKNPIGLPVRGCDLEIAGKVVDIWVDIPEQMARFLEVELKDGSTRLLPMQMVKVQS
NRVHVNALSSDLFAGIPTIKSPTEVTLLEEDKICGYVAGGLMYAAPKRKSVVAAMLAEYA
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111111111
>DM_train1052
MGSDKIHHHHHHHMYVTSQIHAKGSDLAKLMQIAALKGNEEVLDVATGGGHVANAFAPFVKKVVAF
DLTEDILKVARAFIEGNGHQQVEYVQGDAEQMPFTDERFHIVTCRIAAHHFPNPASFVSEAYRVLKK
GGQLLLVDNSAPENDAFDVFYNYVEKERDYSHHRAWKKSDWLKMLEEAGFELEELHCFHKTFIFE
DWCDRMNVTTEKKQELSDFIKSKPTEYYQKFKIVVEDGRVYSFRGESILMKARKPTVKNKGSS
11111111111111111111100000000000000000000000000000000000000001111
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111
>DM_train1053
TKFIGCIDLHNGEVKQIVGGTLTSKKEDVPKTNFVSQHPSSYYAKLYKDRDVQGCHVIKLGPNNDDA
AREALQESPQFLQVGGGINDTNCLEWLKWASKVIVTSWLFTKEGHFQLKRLERLTELCGKDRIVVD
LSCRKTQDGRWIVAMNKWQTLTDLELNADTFRELRKYTNEFLIHAADVEGLCGGIDELLVSKLFEW
TKDYDDLKIVYAGGAKSVDDLKLVDELSHGKVDLTFGSSLDIFGGNLVKFEDCCRWNEKQG
00000000000000001111111111111111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111110000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1054
MASVPENQAPKAIFTFSPEDPVTDENVVFNASNSIDEDGTIAYYVWDFGDGYEGTSTTPTITYKYKN
PGTYKVKLIVTDNQGASSSFTATIKVTSATGDNSKFNFEDGTLGGFTTSGTNATGVVVNTTEKAFKG
ERGLKWTVTSEGEGTAELKLDGGTIVVPGTTMTFRIWIPSGAPIAAIQPYIMPHTPDWSEVLWNST
WKGYTMVKTDDWNEITLTLPEDVDPTWPQQMGIQVQTIDEGEFTIYVDAIDWLEHHHHHH
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train1055
MGIMPRKVLAIKNFKERFDLLPKLKGVIAEKQPDILVVVGNILKNEALEKEYERAHLARREPNRKVI
HENEHYIIETLDKFFREIGELGVKTFVVPGKNDAPLKIFLRAAYEAETAYPNIRVLHEGFAGWRGEFE
VIGFGGLLTEHEFEEDFVLKYPRWYVEYILKFVNELKPRRLVTIFYTPPIGEFVDRTPEDPKHHGSAV
VNTIIKSLNPEVAIVGHVGKGHELVGNTIVVNPGEFEEGRYAFLDLTQHKIKLEQFS
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1056

MYTKNFSNSRMEVKGNNGCSAPIIRKPFKHIVLTVPSSDLDNFNTVFYVQPQYINQALHLANAFQGA
IDPLNLNFNFEKALQIANGIPNSAIVKTLNQSVIQQTVEISVMVEQLKKIIQEVLGLVINSTSFWNSVE
ATIKGTFTNLDTQIDEAWIFWHSLSAHNTSYYYNILFSIQNEDTGAVMAVLPLAFEVSVDVEKQKVLF
FTIKDSARYEVKMKALTLVQALHSSNAPIVDIFNVNNYNLYHSNHKIIQNLNLSN
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111
>DM_train1057
MHRPEAEKWLRRFERAPDARARLVCLPHAGGSASFFFPLAKALAPAVEVLAVQYPGRQDRRHEPPV
DSIGGLTNRLLEVLRPFGDRPLALFGHSMGAIIGYELALRMPEAGLPAPVHLFASGRRAPSRYRDDDV
RGASDERLVAELRKLGGSDAAMLADPELLAMVLPAIRSDYRAVETYRHEPGRRVDCPVTVFTGDHD
PRVSVGEARAWEEHTTGPADLRVLPGGHFFLVDQAAPMIATMTEKLAGPALTGSTGGNS
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111111111111
>DM_train1058
MSNENKTIHDFELNLICDFFSNMERQGPGSPEVTLKALSFIDNLTEKSLIADIGCGTGGQTMVLAGHV
TGQVTGLDFLSGFIDIFNRNARQSGLQNRVTGIVGSMDDLPFRNEELDLIWSEGAIYNIGFERGLNE
WRKYLKKGGYLAVSECSWFTDERPAEINDFWMDAYPEIDTIPNQVAKIHKAGYLPVATFILPENCWT
DHYFTPKVAAQKIFLTKYAGNKIAEEFSMLQSIEEELYHKYKEYYGYTFFIAKKIRL
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1059
MSMLTIGGKSFQSRLLLGTGKYPSFDIQKEAVAVSESDILTFAVRRMNIFEASQPNFLEQLDLSKYTLL
PNTAGASTAEEAVRIARLAKASGLCDMIKVEVIGCSRSLLPDPVETLKASEQLLEEGFIVLPYTSDDVV
LARKLEELGVHAIMPGASPIGSGQGILNPLNLSFIIEQAKVPVIVDAGIGSPKDAAYAMELGADGVLLN
TAVSGADDPVKMARAMKLAVEAGRLSYEAGRIPLKQYGTASSPGEGLPVLEH
10000000000000000000000000000000000000000000000001111111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111
>DM_train1060
MKKVIIAGNGPSLKEIDYSRLPNDFDVFRCNQFYFEDKYYLGKKCKAVFYNPSLFFEQYYTLKHLIQN
QEYETELIMCSNYNQAHLENENFVKTFYDYFPDAHLGYDFFKQLKDFNAYFKFHEIYFNQRITSGVY
MCAVAIALGYKEIYLSGIDFYQNGSSYAFDTKQKNLLKLAPNFKNDNSHYIGHSKNTDIKALEFLEKT
YKIKLYCLCPNSLLANFIELAPNLNSNFIIQEKNNYTKDILIPSSEAYGKFSKNIN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111110000000000111111111000000000000000000000000
00000000000000000000000000000000000000000001

>DM_train1061
MKTITETLNLAPKGKNFLTADWPAPANVKTLITTRNGGVSQGAYQSLNLGTHVGDNPEAVRRNREI
VQQQVGLPVAYLNQIHSTVVVNAAEALGGTPDADASVDDTGKVACAVMTADCLPVLFCDRAGTAVA
AAHAGWRGLAGGVLQNTIAAMKVPPVEMMAYLGPAISADAFEVGQDVFDAFCTPMPEAATAFEGIG
SGKFLADLYALARLILKREGVGGVYGGTHCTVLERDTFFSYRRDGATGRMASLIWLDGNAV
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111
>DM_train1062
RFQYQALLNEHQSQLDRFSSHIVATLDKYAHIPHLISKDKELVDALLSAQNSAQIDITNRYLEQVNEVI
QAADTYLIDRFGNTIASSNWNLDRSFIGRNFAWRPYFYLSIAGQKSQYFALGSTSGQRGYYYAYPVIYA
AEILGVIVVKMDLSAIEQGWQNKSSYFVATDDHQVVFMSSQPAWLFHSVADLSPAQLNDIRQSQQYL
DSPIPSLGWQGDLQAEQSEWRKPEKHWLQDDYIVSSRPLPELALTIRVLSPKIE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>DM_train1063
LRYNLWFGVYDGKEIKLSENFEESFLKAENPSPLPFNVSEVGAKALGKDYYRILRKTALAVSEKMVE
KELRREDRYVVALVKALEEIDESINMLNEKLEDIRAVKESEITEKFEKKIRELRELRRDVEREIEEVM
EKIAPNMTELVGAKVAAKLLERAGSMERLVRLPASKIQVIGAEKSLYKAFARMKKGKKAKIPKHGIIF
LHPFIRTLPKAKRGKMARFLAAKLAIAAKIDYFRGEIDESLYESIRRRYEELRRK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111111111110000000000000
00000000000000000000000000000000000000000
>DM_train1064
MISGILASPGIAFGKALLLKEDEIVIDRKKISADQVDQEVERFLSGRAKASAQLETIKTKAGETFGEEK
EAIFEGHIMLLEDEELEQEIIALIKDKHMTADAAAHEVIEGQASALEELDDEYLKERAADVRDIGKRL
LRNILGLKIIDLSAIQDEVILVAADLTPSETAQLNLKKVLGFITDAGGRTSHTSIMARSLELPAIVGTGSV
TSQVKNDDYLILDAVNNQVYVNPTNEVIDKMRAVQEQVASEKAELAKLKD
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111111
>DM_train1065
MAEKAQFYYPGETDVAENRRKYMNPNYELKKLREIPDEDIVRLMGHREPGEEYPSVHPPLEEMEE
PECPIRELVEPTEGAKAGDRIRYIQFTDSVYFAPIHPYIRARMYMWRYRGVDTGSLSGRQIIEVRERDL
EKIAKELLETEIFDPARSGVRGATVHGHALRLDENGLMLHALRRYRLNEETGEVEYVKDQVGIELDE
PIPVGAPADEDDLKERTTIYRIDGTPYREDEELLQVVQRIHELRTLAGYRPEEAEGK
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000001111
>DM_train1066
MATVKLSFLQHICKLTGLSRSGRKDELLRRIVDSPIYPTSRVLGIDLGIKNFSYCFASQNEDSKVIIHNW
SVENLTEKNGLDIQWTEDFQPSSMADLSIQLFNTLHEKFNPHVILMERQRYRSGIATIPEWTLRVNM
LESMLYALHYAEKRNSIEQKIQYPFLLSLSPKSTYSYWASVLNTKASFSKKKSRVQMVKELIDGQKILF
ENEEALYKWNNGSRVEFKKDDMADSALIASGWMRWQAQLKHYRNFCKQFLKQ
11110000000000000000011110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111100000000000000
00000000000000000000000000000000000000011111111100000000000000000000000
00000111000000000000000000000000000000000000
>DM_train1067
MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQI
LKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVC
KGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLP
VLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAW
00000000000000000000000000011111110000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1068
MGSDKIHHHHHHMNDFKNQWLRKRTFAIPASRLTGRLTTLKSDVPAADSLFWKLWNGSLDTAVQV
LQTDYFKGIAAGTLDPNAYGSLMVQDGYYCFRGRDDYATAATCAQDETLREFFKAKAKSYDEYNETY
HQTWHLREASGLIPGTDIKDYADYEAYVAGSLASPYMCVVMLPCEYLWPWIANFLDGYTPTNSLYR
FWIEWNGGTPNGAYQMGNMLEQYRDKIDEDKAVEIFNTAMNYELKVFTSSTILTTIENGK
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train1069
SGTTEKTVAKEEKVKLTDQQLMADLWYQTAGEMKALYYQGYNTGQLKLDAALAKGTEKKPAIVLDL
DETVLDNSPHQAMSVKTGKGYPYKWDDWINKAEAEALPGSIDFLKYTESKGVDIYYISNRKTNQLD
ATIKNLERVGAPQATKEHILLQDPKEKGKEKRRELVSQTHDIVLFFGDNLSDFTGFDGKSVKDRNQA
VTDSKAQFGEKFIIFPNPMYGDWEGALYDYNFKKSDAEKDKIRHDNLKSFDAKHHHHHH
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000010000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111
>DM_train1070
GSVTSANLDHTKPCWYWDKKDLAHTPSQLEGLDPATEARYRREGARFIFDVGTRLGLHYDTLATGI
IYFHRFYMFHSFKQFPRYVTGACCLFLAGKVEETPKKCKDIIKTARSLLNDVQFGQFGDDPKEEVMV
LERILLQTIKFDLQVEHPYQFLLKYAKQLKGDKNKIQKLVQMAWTFVNDSLCTTLSLQWEPEIIAVAV
MYLAGRLCKFEIQEWTSKPMYRRWWEQFVQDVPVDVLEDICHQILDLYSQGKQQMPH
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1071
MVEDSRVRDALKGGDQKALPASLVPQAPPVLTSKDKITKRMIVVLAMASLETHKISSNGPGGDKYVL
LNCDDHQGLLKKMGRDISEARPDITHQCLLTLLDSPINKAGKLQVYIQTSRGILIEVNPTVRIPRTFKR
FSGLMVQLLHKLSIRSVNSEEKLLKVIKNPITDHLPTKCRKVTLSFDAPVIRVQDYIEKLDDDESICVF
VGAMARGKDNFADEYVDEKVGLSNYPLSASVACSKFCHGAEDAWNILHHHHHH
1111111111111111111111100000000000000000000000000000000000001111111110000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000001111111
>DM_train1072
MSTGITYDEDRKTQLIAQYESVREVVNAEAKNVHVNENASKILLLVVSKLKPASDIQILYDHGVREFG
ENYVQELIEKAKLLPDDIKWHFIGGLQTNKCKDLAKVPNLYSVETIDSLKKAKKLNESRAKFQPDCN
PILCNVQINTSHEDQKSGLNNEAEIFEVIDFFLSEECKYIKLNGLMTIGSWNVSHEDSKENRDFATLV
EWKKKIDAKFGTSLKLSMGMSADFREAIRQGTAEVRIGTDIFGARPPKNEARII
1110000000000000000000000000000000111110000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000001111111000000000000000
00000000000000000000000000000000000001111111111
>DM_train1073
MATANNPPSGLLDPTLCEDRIFYNILEIEPRFLTSDSVFGTFQQSLTSHMRKLLGTWMFSVCQEYNLE
PNVVALALNLLDRLLLIKQVSKEHFQKTGSACLLVASKLRSLTPISTSSLCYAAADSFSRQELIDQEKEL
LEKLAWRTEAVLATDVTSFLLLKLVGGSQHLDFWHHEVNTLITKALVDPLTGSLPASIISAAGCALLV
PANVIPQDTHSGGVVPQLASILGCDVSVLQAAVEQILTSVSDFDLRILDSY
1111111111111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
11111000000000000000000000000000000000001111
>DM_train1074
AKQNVSSLDEKNSVSVDLPGEMKVLVSKEKNKDGKYDLIATVDKLELKGTSDKNNGSGVLEGVKAD
KCKVKLTISDDLGQTTLEVFKEDGKTLVSKKVTSKDKSSTEEKFNEKGEVSEKIITRADGTRLEYTGIK
SDGSGKAKEVLKGYVLEGTLTAEKTTLVVKEGTVTLSKNISKSGEVSVELNDTDSSAATKKTAAWNS
GTSTLTITVNSKKTKDLVFTKENTITVQQYDSNGTKLEGSAVEITKLDEIKNALK
1111110000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000
>DM_train1075
MCELLGMSANVPTDIVFSFTGLMQRGGGTGPHRDGWGIAFYEGRGVRLFQDPLASVDSEVARLVQR
FPIKSETVIGHIRQANVGKVGLSNTHPFIRELGGRYWTFAHNGQLADFQPKPGFYRPVGETDSEAAF
CDLLNRVRRAFPEPVPVEVLLPVLISACDEYRKKGVFNALISDGDWLFTFCSSKLAYITRRAPFGPAR
LKDADLTVDFHAETTPDDVVTVIATEPLTDNENWTLQQSGEWVLWWGGEVLAKGRV
1000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111
>DM_train1076
GMAGAAHRLMEARMRRYDNKFARISDIDINQPESWRGRIFLTFDIDWAADFVLQDTIDLIEGAGVCA
TWFATHSTPLLENIRRNPLFELGVHPNFNPLLAGAHAEGVQEILDRTLELAPGCVSVRSHSLVQATSI
LNMFGERRLRYDCNILVPWDAGIVLQPWRHWTGDMVRVPYLWEDDVACLYDWEFDSTFDYWYQP
DGINVLDFHPIHVYMNTESLRRYEDSREVHRNPVDLIRWRNTSAGSRTFLQSLLARNI
11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1077
PDPMKNTCKLLVVADHRFYRYMGRGEESTTTNYLIELIDRVDDIYRNTAWDNAGFKGYGIQIEQIRIL
KSPQEVKPGEKHYNMAKSYPNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTLGL
AYGGSPRANSHGGVCPKAYYSPVGKKNIYLNSGLTSTKNYGKTILTKEADLVTTHELGHNFGAEHDP
DGLAECAPNEDQGGKYVMYPIAVSGDHENNKMFSQCSKQSIYKTIESKAQECFQERS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1078
MTVRSRFFTEAEGKAVGVENAAAKGDVLLVCEHASATIPQKYGTLGLSADVLSSHAAWDPGALAVAR
LLSEKFHATLVYQRFSRLVYDCNRPPESPSAMPVKSEIYDIPGNFDLDEAERFARTSALYVPFHDRVS
EIIAERQAAGRKVVVVVTIHSFTPVYHGRFREVEIGILHDNDSRLADAMLAGAEGASLTVRRNDPYGPE
DGVTHTLRLHALPDGLLNVMIEIRNDLIANEGEQAAIAGFLHELMGKALSSIEE
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011
>DM_train1079
MPVEITVKELLEAGVHFGHERKRWNPKFARYIYAERNGIHIIDLQKTMEELERTFRFIEDLAMRGGTI
LFVGTKKQAQDIVRMEAERAGMPYVNQRWLGGMLTNFKTISQRVHRLEELEALFASPEIEERPKKE
QVRLKHELERLQKYLSGFRLLKRLPDAIFVVDPTKEAIAVREARKLFIPVIALADTDSDPDLVDYIIPG
NDDAIRSIQLILSRAVDLIIQARGGVVEPSPSYALVQEAEATETPEGESEVEA
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001111111111111111
>DM_train1080
MDFTKPETVLNLQNIRDELVRMEDSIIFKFIERSHFATCPSVYEANHPGLEIPNFKGSFLDWALSNLEI
AHSRIRRFESPDETPFFPDKIQKSFLPSINYPQILAPYAPEVNYNDKIKKVYIEKIIPLISKRDGDDKNN
FGSVATRDIECLQSLSRRIHFGKFVAEAKFQSDIPLYTKLIKSKDVEGIMKNITNSAVEEKILERLTKKA
EVYGVDPTNESGERRITPEYLVKIYKEIVIPITKEVEVEYLLRRLEE

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
011111111100000000000000000000000000000000
>DM_train1081
MTMDEQQSQAVAPVYVGGFLARYDQSPDEAELLLPRDVVEHWLHAQGQGQPSLSVALPLNINHDD
TAVVGHVAAMQSVRDGLFCLGCVTSPRFLEIVRRASEKSELVSRGPVSPLQPDKVVEFLSGSYAGLSLS
SRRCDDAEAPTSLSGSETTPFKHVALCSVGRRRGTLAVYGRDPEWVTQRFPDLTAADRDGLRAQWQ
RCGSTAVDASGDPFRSDSYGLLGNSVDALYIRERLPKLRYDKQLVGVTERESYVKA
1111111111100000000000000001111100000000001111111111111000000000000000
0000000000000000000000000000000000000000000000000000000000000011111111
1111111111100000000000000000000000000000000000000000000111111111110000
000000000000000000000000000000000000000000
>DM_train1082
RPQPGDGERRYREASARKKIRLDRKYIVSCKQTEVPLSVPWDPSNQVYLSYNNVSSLKMLVAKDNW
VLSSEISQVRLYTLEDDKFLSFHMEMVVHVDAAQAFLLLSDLRQRPEWDKHYRSVELVQQVDEDDA
IYHVTSPALGGHTKPQDFVILASRRKPCDNGDPYVIALRSVTLPTHRETPEYRRGETLCSGFCLWREG
DQLTKVSYYNQATPGVLNYVTTNVAGLSSEFYTTFKACEQFLLDNRNDLAPSLQTL
1111111111111000000000000000111111100000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011
>DM_train1084
GSCEKENIGIEVTPVNAKFIITPVVIDATTGTDVTQSAEISFSKGNGTYEGTPELASESININAKYKGMT
GSASVTIPALKAGQFGAKEVTIILSENFFAQEESSNSQIETTKHSGFKNNTSDYWYYITVTYTKKEGSE
VIKNDYEGDDSEIKNIIDAYNKGVREDKVTLNDVQVLAHSRFSVFVDYMKTTSVYQIIEKSPKRDGNP
VASFTVDSYNTIVSPKNEQIPGHGHAPSHGHGHGHGDDSNAGGGIIIAD
1111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000011000000000000
000000000000000000000000000111111111111111
>DM_train1085
MAAESQLKRVIETLRRLGIEEVLKLERRDPQYRAVCNVVKRHGETVGSRLAMLNALISYRLTGKGEE
HWEYFGKYFSQLEVIDLCRDFLKYIETSPFLKIGVEARKKRALKACDYVPNLEDLGLTLRQLSHIVGA
RREQKTLVFTIKILNYAYMCSRGVNRVLPFDIPIPVDYRVARLTWCAGLIDFPPEEALRRYEAVQKIW
DAVARETGIPPLHLDTLLWLAGRAVLYGENLHGVPKEVIALFQWRGGCRPPSE
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011
>DM_train1086
SEPVTIVLSQMGWVRSAKGHDIDAPGLNYKAGDSFKAAVKGKSNQPVVFVDSTGRSYAIDPITLPSAR
GQGEPLTGKLTLPPGATVDHMLMESDDQKLLMASDAGYGFVCTFNDLVARNRAGKALITLPENAHV
MPPVVIEDASDMLLAITQAGRMLMFPVSDLPQLSKGKGNKIINIPSAEAARGEDGLAQLYVLPPQSTL

TIHVGKRKIKLRPEELQKVTGERGRRGTLMRGLQRIDRVEIDSPRRASSGDSEE
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000010000000000000000
00000000000000000000000000000000001111111111
>DM_train1087
GSHPLGDTSDASKLSSDYSLPDLINTRKVPNNWQTGEQASLEEGRIVLTSNQNSKGSLWLKQGFDLK
DSFTMEWTFRSVGYSGQTDGGISFWFVQDSNIPRDKQLYNGPVNYDGLQLLVDNNGPLGPTLRGQL
NDGQKPVDKTKIYDQSFASCLMGYQDSSVPSTIRVTYDLEDDNLLKVQVDNKVCFQTRKVRFPSGSY
RIGVTAQNGAVNNNAESFEIFKMQFFNGVIEDSLIPNVNAMGQPKLITKYIDQQTG
11111111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111000000011111
>DM_train1088
MTNESILESYSGVTPERKKSRMPAKLDWWQSATGLFLGLFMIGHMFFVSTILLGDNVMLWVTKKFE
LDFIFEGGKPIVVSFLAAFVFAVFIAHAFLAMRKFPINYRQYLTFKTHKDLMRHGDTTLWWIQAMTG
FAMFFLGSVHLYIMMTQPQTIGPVSSSFRMVSEWMWPLYLVLLFAVELHGSVGLYRLAVKWGWFDG
ETPDKTRANLKKLKTLMSAFLIVLGLLTFGAYVKKGLEQTDPNIDYKYFDYKRTHEE
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001
>DM_train1089
MHHHHHHGTSLYKKAGSENLYFQGITTRTARQCGQADYGWLQARYTFSFGHYFDPKLLGYASLRVL
NQEVLAPGAAFQPRTYPKVDILNVILDGEAEYRDSEGNHVQASAGEALLLSTQPGVSYSEHNLSKDK
PLTRMQLWLDACPQRENPLIQKLALNMGKQQLIASPEGAMGSLQLRQQVWLHHIVLDKGESANFQ
LHGPRAYLQSIHGKFHALTHHEEKAALTCGDGAFIRDEANITLVADSPLRALLIDLPV
11111111111111111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1091
PKVSVIMTSYNKSDYVAKSISSILSQTFSDFELFIMDDNSNEETLNVIRPFLNDNRVRFYQSDISGVKE
RTEKTRYAALINQAIEMAEGEYITYATDDNIYMPDRLLKMVRELDTHPEKAVIYSASKTYHLNENRD
IVKETVRPAAQVTWNAPCAIDHCSVMHRYSVLEKVKEKFGSYWDESPAFYRIGDARFFWRVNHFYP
FYPLDEELDLNYITDQSIHFQLFELEKNEFVRNLPPQRNCRELRESLKKLGMG
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001110000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00011111111111111000000000000000000000000
>DM_train1092
MIMPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDIT
VQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLE

GDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTE
ELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSIL
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111111
>DM_train1093
ATPWQKITQPVPGSAQSIGSFSNGCIVGADTLPIQSEHYQVMRTDQRRYFGHPDLVMFIQRLSSQVSN
LGMGTVLIGDMGMPAGGRFNGGHASHQTGLDVDIFLQLPKTRWTSAQLLRPQALDLVSRDGKHVV
STLWKPEIFSLIKLAAQDKDVTRIFVNPAIKQQLCLDAGTDRDWLRKVRPWFQHRAHMHVRLRCPA
DSLECEDQPLPPSGDGCGAELQSWFEPPKPGTTKPEKKTPPPLPPSCQALLDEHVI
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111111111000000000000011
>DM_train1094
MRPVYFLSDFGLEDPYVAVVKAVLAERAPGPAVVDLAHALPPQDLRRAAYALFEALPYLPEGAVVLA
VVDPGVGTARRAVAALGRWTYVGPDNGLFTLAWLLDPPRRAFLLEPPRPRPKAALPGWAPGEATF
HGRDVFAPAAAHLALGLPPEGLGPEVPVETLARLPLALTEGPEGEVLTFDRFGNAITTLLRAPVGGFV
EVGGRRVPVRRTFGEVPEGAPVAYLGSAGLLEVAVNRGSAREALGLKEGMPVRLL
00000000000000000000000000000000000000000000000000000000000000000011
11110000000000000000000000000000000011111111111111111111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11110000000000000000000000000000000000
>DM_train1095
MPAEIPEFKKLGLPDKVLELCHRKMGLILVTGPTGSGKSTTIASMIDYINQTKSYHIITIEDPIEYVFKH
KKSIVNQREVGEDTKSFADALRAALREDPDVIFVGEMRDLETVETALRAAETGHLVFGTLHTNTAID
TIHRIVDIFPLNQQEQVRIVLSFILQGIISQRLLPKIGGGRVLAYGLLIPNTAIRNLIRENKLQQVYSLMQ
SGQAETGMQTMNQTLYKLYKQGLITLEDAMEASPDPKELERMIRGGR
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111
>DM_train1096
MGSSSSGLVPRGSHMTTFHDLPLEERLTLARLGTSHYSRQLSLVDNAEFGEHSLLEGWTRSHLIAHV
AYNAIALCNLMHWANTGEETPMYVSPEARNEEIAYGSTLNPDALRNLHEHSVARLDVAWRETSEDA
WSHEVLTAQGRTVPASETLWMRSREVWIHAVDLGAVATFGDIPEVILRTLAAEITQKWTSQGAGEGL
VLLDEPSSTRYPAAPGQDEVVVSGSLAGIVRYAAGRGSDGVTSSTGEVPEPPRWL
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001
>DM_train1097
GMDKYLSANSLEGVIDNEFSMPAPRWLNTYPAGPYRFINREFFIIAYETDPDLLQAILPPDMELLEPV

VKFEFIRMPDSTGFGDYTESGQVVPVRYKGEEGGFTISMFLDCHAPIAGGREIWGFPKKLAKPKLFV
EEDTLIGILKYGSIDIAIATMGYKHRPLDAEKVLESVKKPVFLLKNIPNVDGTPLVNQLTKTYLTDITV
KGAWTGPGSLELHPHALAPISNLYIKKIVSVSHFITDLTLPYGKVVADYLA
11111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1098
MLDVAPPVITPRGTKIEPSAGAPFEAVRVARDVLHTSRTAALATLDPVSGYPYTTATNIGIEPDGTPFF
FAAGLTLHARNMETDARISVTLAPFGKGDALTLPRLTLVGRADRIGPDEVPLAIARYIARYPKAKLYLS
LPDTRLYRLRTEGVQINGGPARNASNITPADLRTDLSGAEELMAAAESEATRLNAIKGEASRLAVLAG
AKTGRWKITSIDPDGIDLASASDLARLWFAERVETLKQFEKALAQLLK
11110000000011111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train1099
KDQIPIILIHGSGGNASSLDKMADQLMNEYRSSNEALTMTVNSEGKIKFEGKLTKDAKRPIIKFGFEQ
NQATPDDWSKWLKIAMEDLKSRYGFTQMDGVGHSNGGLALTYYAEDYAGDKTVPTLRKLVAIGSPF
NDLDPNDNGMDLSFKKLPNSTPQMDYFIKNQTEVSPDLEVLAIAGELSEDNPTDGIVPTISSLATRL
FMPGSAKAYIEDIQVGEDAVHQTLHETPKSIEKTYWFLEKFKTDETVIQLDYK
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1100
MSKPWLFTVHGTGQPDPLGPGLPADTARDVLDIYRWQPIGNYPAAAFPMWPSVEKGVAELILQIEL
KLDADPYADFAMAGYSQGAIVVGQVLKHHILPPTGRLHRFLHRLKKVIFWGNPMRQKGFAHSDEWI
HPVAAPDTLGILEDRLENLEQYGFEVRDYAHDGDMYASIKEDDLHEYEVAIGRIVMKASGFIGGRDSV
VAQLIELGQRPITEGIALAGAIIDALTFFARSRMGDKWPHLYNRYPAVEFLRQI
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train1102
MWVYRLKGTLEALDPILPGLFDGGARGLWEREGEVWAFFPAPVDLPYEGVWEEVGDEDWLEAWR
RDLKPALAPPFVVLAPWHTWEGAEIPLVIEPGMAFGTGHHETTRLALKALARHLRPGDKVLDLGTG
SGVLAIAAEKLGGKALGVDIDPMVLPQAEANAKRNGVRPRFLEGSLEAALPFGPFDLLVANLYAELH
AALAPRYREALVPGGRALLTGILKDRAPLVREAMAGAGFRPLEEAAEGEWVLLAYGR
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1103

GAMSSKNEWRKSAIANTLLYLRLKNIYVSADDFVEEQNVYVLPKNLLKKFIEISDVKIQVAAFIYGMS
AKDHPKVKEIKTVVLVPQLGHVGSVQISNIPDIGDLPDTEGLELLGWIHTQTEELKFMAASEVATHSK
LFADKKRDCIDISIFSTPGSVSLSAYNLTDEGYQWGEENKDIMNVLSEGFEPTFSTHAQLLLSDRITGN
FIIPSGNVWNYTFMGTAFNQEGDYNFKYGIPLEFYNEMHRPVHFLQFSE
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001
>DM_train1104
SFQEQTTKSRDVNSFQIPLRDGVRELLPEDASRNRASIKSPVDIWIGGGENMTALNGIVDGGRKFEAG
QEFQINTFGSVNYWVSDEEIRVFKEYSARAKYAQNEGRTALEANNVPFFDIDVPPELDGVPFSLKAR
VRHKSKGVDGLGDYTSISVKPAFYITEGDETTDTLIKYTSYGSTGSHSGYDFDDNTLDVMVTLSAGVH
RVFPVETELDYDAVQEVQHDWYDESFTTFIEVYSDDPLLTVKGYAQILMERT
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1107
MAHTGQTAKSQGDTATMELTAKPRTPKQKLDESMIAAVAYNKENNVSFALDRKAFDRAFRQQSTTG
LFDITVEGGETFPALVKAVQMDKRKRAPIHVDFYMVTYGEPVEVSVPVHTTGRSQGEVQGGLVDIVV
HNLQIVAPGPRRIPQELVVDVTKMNIGDHITAGDIKLPEGCTLAADPELTVVSVLPPRLTAEELEAEV
QAAQVAGLVAAGELSEEAAEAVLEGDASLEEVKAEASEDNAGTDSEDNSDAQ
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111111111
>DM_train1108
MGSDKIHHHHHHMTVLIIGMGNIGKKLVELGNFEKIYAYDRISKDIPGVVRLDEFQVPSDVSTVVECA
SPEAVKEYSLQILKNPVNYIIISTSAFADEVFRERFFSELKNSPARVFFPSGAIGGLDVLSSIKDFVKNV
RIETIKPPKSLGLDLKGKTVVFEGSVEEASKLFPRNINVASTIGLIVGFEKVKVTIVADPAMDHNIHIVR
ISSAIGNYEFKIENIPSPENPKTSMLTVYSILRTLRNLESKIIFG
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111111100000000000000000000
>DM_train1109
MAMQVPPLTELSPSISVHLLLGNPSGATPTKLTPDNYLMVKNQYALSYNNSKGTANWVAWQLNSS
WLGNAERQDNFRPDKTLPAGWVRVTPSMYSGSGYARGHIAPSADRTKTTEDNAATFLMTNMMPQ
TPDNNRNTWGNLEDYCRELVSQGKELYIVAGPNGSLGKPLKGKVTVPKSTWKIVVVLDSPGSGLEGI
TANTRVIAVNIPNDPELNNDWRAYKVSVDELESLTGYDFLSNVSPNIQTSIESKVDN
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000

>DM_train1110
MNNQGSIISVSLGPGDPGLITVKALSQLREADVIYYPGTVSASGAVTSVALDILKEFDLDPSKLRGMLV
PMSRSRGAAEASYAANYASMAEEVQAGRRVAVVSVGDGGFYSTASAIIERARRDGLDCSMTPGIPAFI
AAGSAAGMPLALQSDSVLVLAQIDEIGELERALVTHSTVVVMKLSTVRDELVSFLERYAKPFLYAEKV
GMAGEFITMEVDALRSRAIPYFSLLVCSPHCRQSTLSPFASKLAAALE
11110000000000000000000000000000000000000000000000000000000000000000000
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111111
>DM_train1111
MSKVVPIASLTPYQSKWTICARVTNKSQIRTWSNSRGEGKLFSLELVDESGEIRATAFNEQVDKFFPL
IEVNKVYYFSKGTLKIANKQFTAVKNDYEMTFNNETSVMPCEDDHHLPTVQFDFTGIDDLENKSKD
SLVDIIGICKSYEDATKITVRSNNREVAKRNIYLMDTSGKVVTATLWGEDADKFDGSRQPVLAIKGAR
VSDFGGRSLSVLSSSTIIANPDIPEAYKLRGWFDAEGQALDGVSISDLKS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111
>DM_train1112
SNAMTTPIRVVVWNEFRHEKKDEQVRAIYPEGMHTVIASYLAEAGFDAATAVLDEPEHGLTDEVLD
RCDVLVWWGHIAHDEVKDEVVERVHRRVLEGMGLIVLHSGHFSKIFKKLMGTTCNLKWREADEKE
RLWVVAPGHPIVEGIGPYIELEQEEMYGEFFDIPEPDETIFISWFEGGEVFRSGCTFTRGKGKIFYFRP
GHETYPTYHHPDVLKVIANAVRWAAPVNRGEIVFGNVKPLEPIKAKQGGVTQ
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111
>DM_train1113
PGMAGDSEQTLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFY
RVLTSEQKAKALKGQFNFDHPDAFDNELILKTLKEITEGKTVQIPVYDFVSHSRKEETVTVYPADVVL
FEGILAFYSQEVRDLFQMKLFVDTDADTRLSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKK
YADVIIPRGADNLVAINLIVQHIQDILNGGPSKRQTNGCLNGYTPSRK
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111111111111
>DM_train1114
LHWPTSLPSGDAFSSVGTHRFVQKVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKVYRREVEE
NGIVLDPLKATHAVKGVTGHEVCNYFWNVDVRNDWETTIENFHVVETLADNAIIIYQTHKRVWPAS
QRDVLYLSVIRKIPALTENDPETWIVCNFSVDHDSAPLNNRCVRAKINVAMICQTLVSPPEGNQEISR
DNILCKITYVANVNPGGWAPASVLRAVAKREYPKFLKRFTSYVQEKTAGKPILF
11111111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011100000000000000000000000

00000000000000000000000000000000000000
>DM_train1115
MGSDKIHHHHHHMSLDMKEHPDAEVQKNQVLTLEDWKEKWVTRHISFHQEQGHQLLKKHLDTF
LKGQSGLRVFFPLCGKAIEMKWFADRGHTVVGVEISEIGIREFFAEQNLSYTEEPLAEIAGAKVFKSSS
GSISLYCCSIFDLPRANIGKFDRIWDRGALVAINPGDHDRYADIILSLLRKEFQYLVAVLSYDPTKHAGP
PFYVPSAELKRLFGTKCSMQCLEEVDALEERHKAWGLDYLFEKLYLLTEK
11111111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1116
GPLGSPASVPLRTEEEFKKFISDKDASIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVESLVNEY
DDNGEGIILFRPSHLTNKFEDKTVAYTEQKMTSGKIKKFIQENIFGICPHMTEDNKDLIQGKDLLIAYY
DVDYEKNAKGSNYWRNRVMMVAKKFLDAGHKLNFAVASRKTFSHELSDFGLESTAGEIPVVAIRTA
KGEKFVMQEEFSRDGKALERFLQDYFDGNLKRYLKSEPIPESNDGAAAS
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111111
>DM_train1117
MAETAVINHKKRKNSPRIVQSNDLTEAAYSLSRDQKRMLYLFVDQIRKSDGTLQEHDGICEIHVAKYA
EIFGLTSAEASKDIRQALKSFAGKEVVFYRPEEDAGDEKGYESFPWFIKPAHSPSRGLYSVHINPYLIPF
FIGLQNRFTQFRLSETKEITNPYAMRLYESLCQYRKPDGSGIVSLKIDWIIERYQLPQSYQRMPDFRRR
FLQVCVNEINSRTPMRLSYIEKKKGRQTTHIVFSFRDITSMTTG
11111111111111000000000000000000000000000000000011111100000000000000000
00000000000000000000000001111111111110000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111
>DM_train1118
MGSLVREWVGFQQFPAATQEKLIEFFGKLKQKDMNSMTVLVLGKGGVGKSSTVNSLIGEQVVRVSPF
QAEGLRPVMVSRTMGGFTINIIDTPGLVEAGYVNHQALELIKGFLVNRTIDVLLYVDRLDVYAVDELD
KQVVIAITQTFGKEIWCKTLLVLTHAQFSPPDELSYETFSSKRSDSLLKTIRAGSKMRKQEFEDSAIAV
VYAENSGRCSKNDKDEKALPNGEAWIPNLVKAITDVATNQRKAIHVD
11111000000000000000000000000000000000000000000000000000000000000000010
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001
>DM_train1119
MNINDALTSILASKKYRALCPDTVRRILTEEWGRHKSPKQTVEAARTRLHGICGAYVTPESLKAAAA
ALSAGDVKKALSLHASTKERLAELDTLYDFIFSAETPRRVLDIACGLNPLALYERGIASVWGCDIHQG
LGDVITPFAREKDWDFTFALQDVLCAPPAEAGDLALIFKLLPLLEREQAGSAMALLQSLNTPRMAVS
FPTRSLGGRGKGMEANYAAWFEGGLPAEFEIEDKKTIGTELIYLIKKNG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000001111111
11110000000000000000000000000000001
>DM_train1121
GHMNMSQSQEIVLQPRSIVVPGELLAEGEFQIPWSPYILKINSKYYSTVVGLFDVKDTQFEVIPLEGSF
YYPKINDIVIGLVEDVEIYGWVVDIKAPYKAYLPASNLLGRSINVGEDLRRYLDVGDYVIARIENFDRSI
DPVLSVKGKDLGRVSNGIVIDIMPVKVPRVIGKNKSMYETLTSKSGCSIFVANNGRIWATCPSRFSEEI
LIEAIRKIENESHIKGLTDRIKQFIEEKLGERNASSGETKTNS
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011100000000001111100000000000
00000000001111111111111111111111111111
>DM_train1122
GMTPIAQRDGQAIQLVGFDGDDTLWKSEDYYRTAEADFEAILSGYLDLGDSRMQQHLLAVERRNLKI
FGYGAKGMTLSMIETAIELTEARIEARDIQRIVEIGRATLQHPVEVIAGVREAVAAIAADYAVVLITKGD
LFHQEQKIEQSGLSDLFPRIEVVSEKDPQTYARVLSEFDLPAERFVMIGNSLRSDVEPVLAIGGWGIYT
PYAVTWAHEQDHGVAADEPRLREVPDPSGWPAAVRALDAQAGRQQ
11111111100000000000000000000000000000000000000000000001111110000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111
11000000000000000000000000000000001
>DM_train1123
MPTFLLVNDDGYFSPGINALREALKSLGRVVVVAPDRNLSGVGHSLTFTEPLKMRKIDTDFYTVIDGT
PADCVHLGYRVILEEKKPDLVLSGINEGPNLGEDITYSGTVSGAMEGRILGIPSIAFSAFGRENIMFEEI
AKVCVDIVKKVLNEGIPEDTYLNVNIPNLRYEEIKGIKVTRQGKRAYKERVFKYIDPYGKPFYWIAAE
EFGWHAEEGTDYWAVLNGYVSVTPLHLDLTNYKVMKSIKYLEDSP
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011
>DM_train1124
SGAMYIDCDGIKLNAYLDMPKNNPEKCPLCIIIHGFTGHSEERHIVAVQETLNEIGVATLRADMYGHG
KSDGKFEDHTLFKWLTNILAVVDYAKKLDFVTDIYMAGHSQGGLSVMLAAAMERDIIKALIPLSPAA
MIPEIARTGELLGLKFDPENIPDELDAWDGRKLKGNYVRVAQTIRVEDFVDKYTKPVLIVHGDQDEA
VPYEASVAFSKQYKNCKLVTIPGDTHCYDHHLELVTEAVKEFMLEQIAK
00000000000000000000000000000000000000000000000000000000000011111
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1126
MTFGEQPAYLRVAGDLRKKIVDGSLPPHTRLPSQARIREEYGVSDTVALEARKVLMAEGLVEGRSGS
GTYVRERPVPRRVARSGYRPDSGATPFRQEQADGAVRGTWESHSEQAEASGAIAERLDIRPGERVMC
TKYVFRDAGEVMMLSTSWEPLAVTGRTPVMLPEEGPVGGMGVVERMAAIDVIVDNVTEEVGARPG
LAEELLTLGGVPGHVVLVIQRTYFASGRPVETADVVVPADRYRVAYHLPVK
11111111000000000000000000000000000000000000000000000000111111000

00000000000000011000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1127
SLPMQHVHTSPVRDYRNRCARREGETVFQVVVEETDLRVTALAELATPMAAYVGELRAQLKVWME
FQPAFRHSLVPVEVPEGAPEVVRRMAHGARLVGVGPFAAVAGTIAQMVAERFVDVSPELIVENGGDL
YLYSERDRVVGILPDPASGDMVGILVRAGTAPVSLCGSSARIGHSLSLGDGDLAVVRARDASLADAAAT
AFGNMLRRADDVAAVTERAAQLASIGIEGVYAQCGGRIGIWGDMELAVA
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1128
GQLPVVGADGLRPMEQYARPWSGARGTRVAIVVGGLGLSQTGSQKAIRDLPPEVTLGFAASGNSLQR
WMQDARREGHEILLQIPLEPFGYPGTNPGPDTLLAGDPAKVNIDRLHRSMAKITNYTGVMNYLGGR
FLAEQSALEPVMRDIGKRGLLFLDDGSSAQSLSGGIAKAISAPQGFADVLLDGEVTEASILRKLDDLE
RIARRNGQAIGVASAFDESIAAISKWSREAGGRGIEIVGVSALVSGQAG
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111
>DM_train1129
MTDILIDDTATEAVRTLIRAFPLVPVSQPPEQGSYLLAEHDTVSLRLVGEKSNVIVDFTSGAAQYRRTK
GGGELIAKAVNHTAHPTVWDATAGLGRDSFVLASLGLTVTAFEQHPAVACLLSDGIRRALLNPETQD
TAARINLHFGNAAEQMPALVKTQGKPDIVYLDPMYPERRKSAAVKKEMAYFHRLVGEAQDEVVLLH
TARQTAKKRVVVKRPRLGEHLAGQAPAYQYTGKSTRFDVYLPYGADKG
10000000000000000000000000000000000000000000000000000000000111111111111
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1130
GSPGILAPLAPGSEDNFARFVCKNNGVLFENQLLQIGLKSEFRQNLGRMFIFYGNKTSTQFLNFTPTL
ICADDLQTNLNLQTKPVDPTVDGGAQVQQVINIECISDFTEAPVLNIQFRYGGTFQNVSVKLPITLNK
FFQPTEMASQDFFQRWKQLSNPQQEVQNIFKAKHPMDTEITKAKIIGFGSALLEEVDPNPANFVGA
GIIHTKTTQIGCLLRLEPNLQAQMYRLTLRTSKDTVSQRLCELLSEQF
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1132
MTTNDTYEATYAIPMHCENCVNDIKACLKNVPGINSLNFDIEQQIMSVESSVAPSTIINTLRNCGKDA
IIRGAGKPNSSAVAILETFQKYTIDQKKDTAVRGLARIVQVGENKTLFDITVNGVPEAGNYHASIHEKG
DVSKGVESTGKVWHKFDEPIECFNESDLGKNLYSGKTFLSAPLPTWQLIGRSFVISKSLNHPENEPSS
VKDYSFLGVIARSAGVWENNKQVCACTGKTVWEERKDALANNIK

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111
>DM_train1133
MKSMSEYLNLLKEAIQNVVDGGWHETKRKGNTGIGKTFEDLLEKEEDNLDAPDFHDIEIKTHETAA
KSLLTLFTKSPTNPRGANTMLRNRYGKKDEYGNNILHQTVSGNRKTNSNSYNYDFKIDIDWESQVV
RLEVFDKQDIMIDNSVYWSFDSLQNQLDKKLKYIAVISAESKIENEKKYYKYNSANLFTDLTVQSLCR
GIENGDIKVDIRIGAYHSGKKKGKTHDHGTAFRINMEKLLEYGEVKVIV
111111000000000000000000001111100000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
001111111111111000000000000000000000
>DM_train1134
SWEIEELDREIGKIKKHSLILIHEEDASSRGKDILFYILSRKLKSDNLVGMFSISYPLQLIIRILSRFGVDV
IKYLENHRLAIVDTFGSFHGIKATMPGVWYLEGMLSSETLPIKYAKAVEDHKKVWMDLNLFEGREL
YGFAISMSGYLEVFTPEETLRYLETSAEVRYGHPAYKKYPRGTNFWLWEGVKDKRVLLSVYRRADYV
LKTRSSLGENGIKRELLVIKTPKPIEELVRFEYEFKGNEPKLRR
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000011100000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011111000000000000000
>DM_train1135
MTAAEHGLHAPAYAWSHNGPFETFDHASIRRGYQVYREVCAACHSLDRVAWRTLVGVSHTNEEVRN
MAEEFEYDDEPDEQGNPKKRPGKLSDYIPGPYPNEQAARAANQGALPPDLSLIVKARHGGCDYIFSL
LTGYPDEPPAGVALPPGSNYNPYFPGGSIAMARVLFDDMVEYEDGTPATTSQMAKDVTTFLNWCAE
PEHDERKRLGLKTVIILSSLYLLSIWVKKFKWAGIKTRKFVFNPPKPRK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111
>DM_train1136
VRSFIYEPFQIPSGSMMPTLLIGDFILVEKFAYGIKDPIYQKTLIETGHPKRGDIVVFKYPEDPKLDYIK
RAVGLPGDKVTYDPVSKELTIQPGCSSGQACENALPVTYSNVEPSDFVQTFSRRNGGEATSGFFEVPK
NETKENGIRLSERKETLGDVTHRILTVPIAQDQVGMYYQQPGQQLATWIVPPGQYFMMGDNRDNS
ADSRYWGFVPEANLVGRATAIWMSFDKQEGEWPTGLRLSRIGGIH
111000000000000000000000000001111111111111111000000000000000000000000
000000000000000000000001111100000000000000000000011110000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011111111100000000000
>DM_train1137
GSHMASMTGGQQMGRGSEFKKYLETNGIKPKQFHKKELIFNQWDPQEYCIFLYDGITKLTSISENGTI
MNLQYYKGAFVIMSGFIDTETSVGYYNLEVISEQATAYVIKINELKELLSKNLTHFFYVFQTLQKQVSY
SLAKFNDFSINGKLGSICGQLLILTYVYGKETPDGIKITLDNLTMQELGYSSGIAHSSAVSRIISKLKQEK

VIVYKNSCFYVQNLDYLKRYAPKLDEWFYLACPATWGKLN
11111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111100000000000000000000
0000000000000000000000000000000000
>DM_train1138
MSEAAQTLDGWYCLHDFRTIDWSAWKTLPNEEREAAISEFLALVDQWETTESEKQGSHAVYTIVG
QKADILFMILRPTLDELHEIETALNKTKLADYLLPAYSYVSVVELSNYLASGSEDPYQIPEVRRRLYPIL
PKTNYICFYPMDKRRQGNDNWYMLSMEQRRELMRAHGMTGRKYAGKVTQIITGSVGLDDFEWGV
TLFSDDALQFKKLVYEMRFDEVSARFGEFGSFFVGTRLPMENVSSFFHV
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train1139
MAVTDLSLTNSSLMPTLNPMIQQLALAIAASWQSLPLKPYQLPEDLGYVEGRLEGEKLVIENRCYQT
PQFRKMHLELAKVGKGLDILHCVMFPEPLYGLPLFGCDIVAGPGGVSAAIADLSPTQSDRQLPAAYQK
SLAELGQPEFEQQRELPPWGEIFSEYCLFIRPSNVTEEERFVQRVVDFLQIHCHQSIVAEPLSEAQTLE
HRQGQIHYCQQQQKNDKTRRVLEKAFGEAWAERYMSQVLFDVIQ
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train1140
MSDDPIAASQAVVLSQAQAQNSQYALARTFATQKVSLEESVLSQVTTAIQTAQEKIVYAGNGTLSDDD
RASLATDLQGIRDQLMNLANSTDGNGRYIFAGYKTEAAPFDQATGGYHGGEKSVTQQVDSARTMVI
GHTGAQIFNSITSNAVPEPDGSDSEKNLFVMLDTAIAALKTPVEGNNVEKEKAAAAIDKTNRGLKNS
LNNVLTVRAELGTQLSELSTLDSLGSDRALGQKLQMSNLVDVDWNSV
11111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111111111111111111
>DM_train1141
GMSEENKIGTYQFVAEPFHVDFNGRLTMGVLGNHLLNCAGFHASDRGFGIATLNEDNYTWVLSRLA
IELDEMPYQYEKFSVQTWVENVYRLFTDRNFAVIDKDGKKIGYARSVWAMINLNTRKPADLLALHG
GSIVDYICDEPCPIEKPSRIKVTSNQPVATLTAKYSDIDINGHVNSIRYIEHILDLFPIELYQTKRIRRFEM
AYVAESYFGDELSFFCDEVSENEFHVEVKKNGSEVVCRSKVIFE
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>DM_train1142
MGSDKIHHHHHHMEDGMNTFDLYYWPVPFRGQLIRGILAHCGCSWDEHDVDAIEGLMDCGAEKQ
PVAFMGPPVLIDRERNFAISQMPAIAIYLGERLDILPATVEGRTLSAKIVNDANDVLDELTLNGGREM

WTPEKWQEFVPRLQKWIRIFADTGARNGLSAASGFMLGTEKIGVADIVTAILWTTVADRFPAIKGIIE
DTSPIIWGLSRRVVATAPLAALNSKSFEEYGNAYCGGEIEKSLRKVAS
11111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1143
GEAQPASGRFDQVGGAFGWKPHKLDPKECAQVAYDGYWYKGFGCGFGAFYSIVGLMGEKYGAPYN
QFPFAMLEANKGGISDWGTICGALYGAAATFSLFWGRKEVHPMVNELFRWYEVTKLPIFNPGDAAQ
GVKGDLPMSASDSVLCHISVSKWCYENKIEATSKQRSERCGRLTADAAFKAAEIINTKIDQGKDFKST
FPMQASVSSCGECHMTKGNDANWAKGIMDCTPCHSGTAATQNKFVNHP
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1144
MRSRRVDVMDVMNRLILAMDLMNRDDALRVTGEVREYIDTVKIGYPLVLSEGMDIIAEFRKRFGCR
IIAAFKVADIPETNEKICRATFKAGADAIIVHGFPGADSVRACLNVAEEMGREVFLLTEMSHPGAEMF
IQGAADEIARMGVDLGVKNYVGPSTRPERLSRLREIIGQDSFLISPGVGAQGGDPGETLRFADAIIVGR
SIYLADNPAAAAAGIIESIKDLLNPEDPAANKARKEAELAAATA
11111111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000011111111111111111111111
>DM_train1145
MFKAIVSAATLRDALDSVSVLVDECKIRLNEESLSIRAVDPANVGMVDLTLDAAAFESYEAHGGVIGV
NLSRLEEVAGMAGAGDLIHLTLDEETRKLNIRIDGLSYTLALIDPDSIRQEPDIPDLDLAANIVLEGTH
LDRGIKAADMVSDHIRLRVDGAEETFHIEAEGDTDDVDLSLPPADLISIEAGAADSLFSLDYLKDMN
KAIPTDAEVTVELGEEFPVKLHYQIAEGMGTITYMLAPRIQSD
10000000000000000000000000011100000000000000000000000000111110000000
00000000011110000011111110000000000011100011110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>DM_train1146
MAHHHHHHLPALKLALEYIVPCMNKHGICVVDDFLGKETGQQIGDEVRALHDTGKFTDGQLVSQK
SDSSKDIRGDKITWIEGKEPGCETIGLLMSSMDDLIRHCNGKLGSYKINGRTKAMVACYPGNGTGYV
RHVDNPNGDGRCVTCIYYLNKDWDAKVSGGILRIFPEGKAQFADIEPKFDRLLFFWSDRRNPHEVQ
PAYATRYAITVWYFDADERARAKVKYLTGEKGVRVELNKPSDSVGKDVF
11111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011100000001111111111111
>DM_train1147
SNATTHKFEHPLNEKTRIYLRVESLLRQAHLASGFADNHQYQLFFRALFDMVEIFEQIQLKSELAKD

LEKQRLSYRHWLNVEGVDQEALNSLLNEIDVVHSQLMGAERFGQALKEDRFLSSIRQRFNLPGGSCC
FDLPALHYWLHLPIERKKHDANQWQKSLKPLSDALTLWLKLARETGHFKAQIARAGFFQSDADEA
NILRLHIPMKYGVYPMISGHKNRFAIKFMAFENGQACSQDVEFELAVC
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111100000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1148
GAMGMIDIHSHIVFDVDDGPKSREESKALLAESYRQGVRTIVSTSHRRKGMFETPEEKIAENFLQVR
EIAKEVASDLVIAYGAEIYYTPDVLDKLEKKRIPTLNDSRYALIEFSMNTPYRDIHSALSKILMLGITPVI
AHIERYDALENNEKRVRELIDMGCYTQVNSSHVLKPKLFGERYKFMKKRAQYFLEQDLVHVIASDM
HNLDGRPPHMAEAYDLVTQKYGEAKAQELFIDNPRKIVMDQLI
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1149
MISDSMTVEEIRLHLGLALKEKDFVVDKTGVKTIEIIGASFVADEPFIFGALNDEYIQRELEWYKSKSL
FVKDIPGETPKIWQQVASSKGEINSNYGWAIWSEDNYAQYDMCLAELGQNPDSRRGIMIYTRPSMQ
FDYNKDGMSDFMCTNTVQYLIRDKKINAVVNMRSNDVVFGFRNDYAWQKYVLDKLVSDLNAGDST
RQYKAGSIIWNVGSLHVYSRHFYLVDHWWKTGETHISKKDYVGKYA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111
>DM_train1151
MEATIYDLDGNTDGEVDLPDVFETPVRSDLIGKAVRAAQANRKQDYGSDEYAGLRTPAESFGSGRGQ
AHVPKLDGRARRVPQAVKGRSAHPPKTEKDRSLDLNDKERQLAVRSALAATADADLVADRGHEFDR
DEVPVVVSDDFEDLVKTQEVVSLLEALDVHADIDRADETKIKAGQGSARGRKYRRPASILFVTSDEPS
TAARNLAGADVATASEVNTEDLAPGGAPGRLTVFTESALAEVAER
00000001110000000000000000000000000000000000000000000000000000000011
11111110000000000000000000000000000000000000001111111111111111100000
00000000000000000000000011111111111111111111111000000000000000000000
00000000000111100000000000000000
>DM_train1153
EQLLPDLLISPHMLPLTDLEIKFQYRGRPPRALTISNPHGCRLFYSQLEATQEQVELFGPISLEQVRFP
SPEDIPSDKQRFYTNQLLDVLDRGLILQLQGQDLYAIRLCQCKVFWSGPCASAHDSCPNPIQREVKTK
LFSLEHFLNELILFQKGQTNTPPPFEIFFCFGEEWPDRKPREKKLITVQVVPVAARLLLEMFSGELSW
SADDIRLQISNPDLKDRMVEQFKELHHIWQSQQRLQPVAQA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111
>DM_train1154

MKLARFLAKGRVHQGVYREGLLLDEAGEAHRPEDVTWLLPFTPGKILGVALNYADHAEELGLSRPE
EPALFWKPNTSLLPHKGVVLYPKGARFVHYEVELAVVVGRPMKRVRAKDALDYVLGYTIANDLVAR
DYVTNTFRPPIRAKGRDTFLPLGPFLVVEEVEDPQDLWLRAYVNGELRQEGHTSRMLYSVAELLEFI
SEFMTLEPYDVLLTGTPKGISQVRPGDVMRLEIEGLGALENPIEEEP
000000000000000000000000000000000000000000000000000011111100000000000
000000000000000000000000000000000000000000000000000000000000001111000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1155
MGSDKIHHHHHHMVRLSEAEVQNPKLGEYQCLADLNLFDSPECTRLATQSASGRHLWVTSNHQNL
AVEVYLCEDDYPGWLSLSDFDSLQPATVPYQAATFSESEIKKLLAEVIAFTQKAMQQSNYYLWGGTV
GPNYDCSGLMQAAFASVGIWLPRDAYQQEGFTQPITIAELVAGDLVFFGTSQKATHVGLYLADGYYIH
SSGKDQGRDGIGIDILSEQGDAVSLSYYQQLRGAGRVFKSYEPQRR
111111111111111111111111000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1156
VGPEAYGEASHSHSPASGRYIQQMLDQRCQEIAAELCQSGLRKMCVPSSRIVARNAVGITHQNTLQW
RCFDTASLLESNQENNGVNCVDDCGHTIPCPGGVHRQNSNHATRHEILSKLVEEGVQRFCSPYQASA
NKYCNDKFPGTIARRSKGFGNNVEVAWRCYEKASLLYSVYAECASNCGTTWYCPGGRRGTSTELDK
RHYTEEEGIRQAIGSVDSPCSEVEVCLPKDENPPLCLDESGQISRT
111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1157
KHYSIQPANLEFNAEGTPVSRDFDDVYFSNDNGLEETRYVFLGGNQLEARFPEHPHPLFVVAESGFG
TGLNFLTLWQAFDQFREAHPQAQLQRLHFISFEKFPLTRADLALAHQHWPELAPWAEQLQAQWP
MPLPGCHRLLLDEGRVTLDLWFGDINELISQLDDSLNQKVDAWFLDGFAPAKNPDMWTQNLFNA
MARLARPGGTLATFTSAGFVRRGLQEAGFTMQKRKGFGRKREMLCGVMEQT
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
011000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000011
>DM_train1158
MYPVDLHMHTVASTHAYSTLSDYIAQAKQKGIKLFAITDHGPDMEDAPHHWHFINMRIWPRVVDG
VGILRGIEANIKNVDGEIDCSGKMFDSLDLIIAGFHEPVFAPHDKATNTQAMIATIASGNVHIISHPGN
PKYEIDVKAVAEAAAKHQVALEINNSSFLHSRKGSEDNCREVAAAVRDAGGWVALGSDSHTAFTMG
EFEECLKILDAVDFPPERILNVSPRRLLNFLESRGMAPIAEFADL
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000011111111110000000000000000000000000000000000000000
000000000000000000000000000000000

>DM_train1159
MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAELSNEERNLLSVAYKNVVGARRSSWRVVSSI
EQKTEGAEKKQQMAREYREKIETELRDICNDVLSLLEKFLIPNASQAESKVFYLKMKGDYYRYLAEV
AAGDDKKGIVDQSQQAYQEAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAI
AELDTLSEESYKDSTLIMQLLRDNLTLWTSDTQGDEAEAGEGGEN
00000000000000000000000000000000000000000000000000000000000000000111
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111000000000000011111111000000000000000011111111111
11000000000000011111111111111111
>DM_train1160
EMGTADLGPSSVPTPTNVTIESYNMNPIVYWEYQIMPQVPVFTVEVKNYGVKNSEWIDACINISHHY
CNISDHVGDPSNSLWVRVKARVGQKESAYAKSEEFAVCRDGKIGPPKLDIRKEEKQIMIDIFHPSVFV
NGDEQEVDYDPETTCYIRVYNVYVRMNGSEIQYKILTQKEDDCDEIQCQLAIPVSSLNSQYCVSAEGV
LHVWGVTTEKSKEVCITIFNSSIKGSLWIPVVAALLLFLVLS
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000001110000000000000000000000000000001111111111
11100000000000000000000000000000000000000000000000000000000000000000
00000001111111111111111111111111
>DM_train1161
MLSATQPLSEKLDSTLKHLAIIMDGNGRWAKLKNKARAYGHKKGVKTLKDITIWCANHKLECLTLYA
FSTENWKRPKSEVDFLMKMLKKYLKDERSTYLDNNIRFRAIGDLEGFSKELRDTILQLENDTRHFK
DFTQVLALNYGSKNELSRAFKSLLESPPSNISLLESLENEISNRLDTRNLPEVDLLLRTGGEMRLSNF
LLWQSSYAELFFTPILWPDFTPKDLENIISDFYKRVRKFGELKA
11111111111111000000000000000000000000000000000000000000000011111
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000011111111100000000000000000000000000000000000000000
00000000000000000000000000000111
>DM_train1162
TESDMRATLVWSDEFDGPAGSAPDPANWNHETGDHGWGNNELQNYTDSRANSALDGNGNLVITA
RQEADGGYTSARLTTQNKVQPQYGRVEASIQIPRGQGIWPAFWMLGADFPNTPWPDSGEIDIMENI
GREPHLVHGSLHGPGYFGGEPLTGSYMHPQGWSFADTFHTFAVDWRPGSITWSVDGVAYQTYTSAD
TRGNPWVFDQPFFMILNVAVGGDWPGYPDGSTQFPQEMRVDYVRVYELG
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>DM_train1163
AVKRRPRFPVNSNSNGGNELCPKIRIGQDDLPGFDLISQFQVDKAASRRAIQRVVGSATLQVAYKLGN
NVDFRIPTRNLYPSGLPEEYSFLTTFRMTGSTLKKNWNIWQIQDSSGKEQVGIKINGQTQSVVFSYKG
LDGSLQTAAFSNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRGPIDIDGFAVLGKLADNPQ
VSVPFELQWMLIHCDPLRPRRETCHELPARITPSQTTDER
11111111111111111100000011111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000111111111111
>DM_train1164
MPDYSYRPTIGRTYVYDNKYYKNLDAVIKNAKRKKHFAEHEIEEATLDPLDNYLVAEDPFLGPGKNQ
KLTLFKEIRNVKPDTMKLVVGWKGKEFYRETWTRFMEDSFPIVNDQEVMDVFLVVNMRPTRPNRC
YKFLAQHALRCDPDYVPHDVIRIVEPSWVGSNNEYRISLAKKGGGCPIMNLHSEYTNSFEQFIDRVI
WENFYKPIVYIGTDSAEEEEILLEVSLVFKVKEFAPDAPLFTGPAY
11000000000000000000000000000001111111111111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111111000000000000000000000000000
00000000000000000000000000000000
>DM_train1165
MADDRGDITPIGDCRVCSFRMSLLLTGRCTPGDACVAVESGRQIDRFFRNNPHLAVQYLADPFWERR
AIAVRYSPVEALTPLIRDSDEVVRRAVAYRLPREQLSALMFDEDREVRITVADRLPLEQLEQMAADR
DYLVRAYVVQRIPPGRLFRFMRDEDRQVRKLVAKRLPEESLGLMTQDPEPEVRRIVASRLRGDDLLE
LLHDPDWTVRLAAVEHASLEALRELDEPDPEVRLAIAGRLGIA
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111
>DM_train1166
SLRSDLINALYDENQKYDVCGIISAEGKIYPLGSDTKVLSTIFELFSRPIINKIAEKHGYIVEEPKQQNHY
PDFTLYKPSEPNKKIAIDIKTTYTNKENEKIKFTLGGYTSFIRNNTKNIVYPFDQYIAHWIIGYVYTRV
ATRKSSLKTYNINELNEIPKPYKGVKVFLQDKWVIAGDLAGSGNTTNIGSIHAHYKDFVEGKGIFDSE
DEFLDYWRNYERTSQLRNDKYNNISEYRNWIYRGRK
00000000111111110000000000000001111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011
11111000000000000000000000000000000000111110000000000000000000000000000
00011111111111111111111111111111
>DM_train1167
MDLTNGGVSPAATSAPLDWTTFRRVFLIDDAWRPLMEPELANPLTAHLLAEYNRRCQTEEVLPPRE
DVFSWTRYCTPDEVRVVIIGQDPYHHPGQAHGLAFSVRANVPPPPSLRNVLAAVKNCYPEARMSGH
GCLEKWARDGVLLLNTTLTVKRGAAASHSRIGWDRFVGGVIRRLAARRPGLVFMLWGTHAQNAIRP
DPRVHCVLKFSHPSPLSKVPFGTCQHFLVANRYLETRSISPIDWSV
11111111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1168
TNVISTLDLNLLTKGGGSWNVDGVNMKKSAVTTFDGKRVVKAVYDKNSGTSANPGVGGFSFSAVPD
GLNKNAITFAWEVFYPKGFDFARGGKHGGTFIGHGAASGYQHSKTGASNRIMWQEKGGVIDYIYPPS
DLKQKIPGLDPEGHGIGFFQDDFKNALKYDVWNRIEIGTKMNTFKNGIPQLDGESYVIVNGKKEVLK
RINWSRSPDLLISRFDWNTFFGGPLPSPKNQVAYFTNFQMKKYE
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001
>DM_train1169
QRSYERDFPHHDRICIVKTHGTRQSQEGDKPEELDFSQVSGGVAPAIQEEIPGVELATRTTLYGTSKM
ILEDNKTYETKTLLAEPAFLDMFGVELIAGVRDSALRDNMTCLISESLARKMGGDVLGKRLRPAESK
SDRAITIGGVFEDLPHNSSIQADMLLPITWMPAESLNNWIGNDRYIAYVRLRPGVSPESLDEALLEM
QKRHQDMEVFRKAGVELHYSLTPFNRLRLEDPTLVNMLRIQQ
11111100000000000000011111111111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111
1110000000000000111000000000000
>DM_train1170
MRSRTANRSGIVIRRRVTPAGDIIVTLLTPQGKLKAIARGGVKGPLSSSLNLFHHVGVQVYQGPHNDL
ASVKQAVLEGALPTLAEPERYAFAHLMAEFADALFQEGEFSEQAFDLFAASLRGVAHQPDPEWVALV
MSYKLLGLAGVIPQTARCARCGAPDPEHPDPLGGQLLCSKCAALPPYPPAVLDFLRHAVRRTVRASF
EQPVPSADRPALWRALEKFVTVQVGGVHSWRQLVPSGVPVLS
00000000000000000000000000000000000000001111000000000000000000000000000
00000000000000000000000000000000010000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000001111111
>DM_train1171
MKIDLNADLGEGCASDAELLTLVSSANIACGFHAGDAQIMQACVREAIKNGVAIGAHPSFPDRENFGR
SAMQLPPETVYAQTLYQIGALATIARAQGGVMRHVKPHGMLYNQAAKEAQLADAIARAVYACDPALI
LVGLAGSELIRAGKQYGLTTREEVFADRGYQADGSLVPRSQSGALIENEEQALAQTLEMVQHGRVKSI
TGEWATVAAQTVCLHGDGEHALAFARRLRSAFAEKGIVVAA
00000000000000000000000000000000000000000000000000000000000001111111000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111000000000000000000000000000000
0000000010000000000000111100000
>DM_train1172
MARSQLSAAGEQHVIQLNQQGGKNLFCFPPISGFGIYFKDLALQLNHKAAVYGFHFIEEDSRIEQYVS
RITEIQPEGPYVLLGYSAGGNLAFEVVQAMEQKGLEVSDFIIVDAYKKDQSITADTENDDSAAYLPEA
VRETVMQKKRCYQEYWAQLINEGRIKSNIHFIEAGIQTETSGAMVLQKWQDAAEEGYAEYTGYGAH
KDMLEGEFAEKNANIILNILDKINSDQKVLPNKHGSHHHHHH
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111111111111111
>DM_train1173
GMPTLEMPVAAVLDSTVGSSEALPDFTSDRYKDAYSRINAIVIEGEQEAHDNYIAIGTLLPDHVEELK
RLAKMEMRHKKGFTACGKNLGVEADMDFAREFFAPLRDNFQTALGQGKTPTCLLIQALLIEAFAISA
YHTYIPVSDPFARKITEGVVKDEYTHLNYGEAWLKANLESCREELLEANRENLPLIRRMLDQVAGDA
AVLQMDKEDLIEDFLIAYQESLTEIGFNTREITRMAAAALVS
11111111111111111110000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011
>DM_train1174
SMLPEETILDKLPKDFQERITSSKWKDRVEALEEFWDSVLSQTKKLKSTSQNYSNLLGIYGHIIQKDA
NIQAVALAAQSVELICDKLKTPGFSKDYVSLVFTPLLDRTKEKKPSVIEAIRKALLTICKYYDPLASSGR
NEDMLKDILEHMKHKTPQIRMECTQLFNASMKEEKDGYSTLQRYLKDEVVPIVIQIVNDTQPAIRTI
GFESFAILIKIFGMNTFVKTLEHLDNLKRKKIEETVKTL
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001
>DM_train1175
GMEFNHLTKQLNQLLAQDYVAFSITENPVVQMLSQASFAQIAYVMQQYSIFPKELVGFTELARRKAL
GAGWNGVAQELQENIDEEMGSTTGGISHYTLLADGLEEGLGVAVKNTMPSVATSKLLRTVLSLFDRQ
VDYVLGATYAIEATSIPELTLIVKLVEWLHEGAIPKDLQYFFSKHLDEWEIEHEAGLRTSVAAYIQPEE
FGEFAAGFRAMIDAMQVWWQELAQEAISSEVVLSTAIAQHH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111110000000000000000000000000
0000000000000000000000001111111
>DM_train1176
ATSMTDIKGFNMISIEQEKELGNKFAVEIEKQQQPVNDPEVQRYVDKVGKRLLSGARAVEFDYVFKV
VKDDSVNAFAIPGGRVYVHTGLLKAADNETELAGVLAHEINHAVARHGTRQMTQEYGYSLVLSLVLG
DNPNMLAQLAGQLFGKAGMMSYSREYENQADFLGVETMYKAGYNPNGLTSFFQKLNAMDGGTQS
NVARFFSTHPLTSERIQRVQAEIAKLPPQRYLTDETEFKKIKGRLK
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011100000
00000000000000000000000000000000000000000000000001111111111111100000000
0000000000000000000000000000000
>DM_train1178
FADRMVIKAQSPAGFAEEYIIESIWNNRFPPGTILPAERELSELIGVTRTTLREVLQRLARDGWLTIQH
GKPTKVNNFWETSGLNILETLARLDHESVPQLIDNLLSVRTNISTIFIRTAFRQHPDKAQEVLATANE
VADHADAFAELDYNIFRGLAFASGNPIYGLILNGMKGLYTRIGRHYFANPEARSLALGFYHKLSALCSE
GAHDQVYETVRRYGHESGEIWHRMQKNLPGDLAIQGR
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000111111111111
>DM_train1179
GMTSSFTDYCKFFNRILSEVQETQEQAIIKGAHLVSEAVMNGGRFYVFGSGHSHMIAEEIYNRAGGLA
LVTAILPPELMLHERPNKSTYLERIEGLSKSYLKLHQVTNKDVIMIISNSGRNTVPVEMAIESRNIGAK
VIAMTSMKHSQKVTSRHKSGKKLYEYADVVLDNGAPVGDAGFQIANSEIYSGATSDSIGCFLAQALIV
ETLHLLVQQGFEPPVFKSSNVDGADLYNDKIFNEYVKW

10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000
>DM_train1180
GHMHAPLVSKDLDYISTANHDQPPRHLGSRFSAEGEFLPEPGNTVVCHLVEGSQTESAIVSTRQRFL
DMPEASQLAFTPVSSLHMTVFQGVIESRRALPYWPQTLPLDTPIDAVTDYYRDRLSTFPTLPAFNMR
VTGLRPVGMVMKGATAEDDSIVALWRDTFADFFGYRHPDHDTYEFHITLSYIVSWFEPECLPRWQA
MLDEELEKLRVAAPVIQMRPPAFCEFKDMNHFKELVVFDKRGS
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001111
>DM_train1181
MARYYVLDLSEDFRRELRETLAEMVNPVEVHVFLSKSGCETCEDTLRLMKLFEEESPTRNGGKLLK
LNVYYRESDSDKFSEFKVERVPTVAFLGGEVRWTGIPAGEEIRALVEVIMRLSEDESGLEDATKEALK
SLKGRVHIETIITPSCPYCPYAVLLAHMFAYEAWKQGNPVILSEAVEAYENPDIADKYGVMSVPSIAIN
GYLVFVGVPYEEDFLDYVKSAAEGRLTVKGPIRAGEAEEL
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000111111111111
>DM_train1182
MIRLIFLDIDKTLIPGYEPDPAKPIIEELKDMGFEIIFNSSKTRAEQEYYRKELEVETPFISENGSAIFIP
KGYFPFDVKGKEVGNYIVIELGIRVEKIREELKKLENIYGLKYYGNSTKEEIEKFTGMPPELVPLAMER
EYSETIFEWSRDGWEEVLVEGGFKVTMGSRFYTVHGNSDKGKAAKILLDFYKRLGQIESYAVGDSYN
DFPMFEVVDKVFIVGSLKHKKAQNVSSIIDVLEVIK
00000000000000000000000000000000000000000000000000000000000000000000000
00000111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000
>DM_train1183
MSADHDHDHDHDHDHKPAPMVEEVSDFEILEMAVRELAIEKGLFSAEDHRVWKDYVHTLGPLPA
ARLVAKAWLDPEYKKLCIEDGVEASKAVGVNWVTSPPTQFGTPSDYCNLRVLADSPTLKHVVVCTL
CSCYPRPILGQSPEWYRSPNYRRRLVRWPRQVLAEFGLQLPSEVQIRVADSNQKTRYIVMPVRPEGT
DGWTEDQLAEIVTRDCLIGVAVPKPGITVNAKRPVLKANRPVHHDH
11111111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001111
>DM_train1185
AELLLGVNIDHIATLRNARGTAYPDPVQAAFIAEQAGADGITVHLREDRRHITDRDVRILRQTLDTR
MNLEMAVTEEMLAIAVETKPHFCCLVPEKRQEVTTEGGLDVAGQRDKMRDACKRLADAGIQVSLFI
DADEEQIKAAAEVGAPFIEIHTGCYADAKTDAEQAQELARIAKAATFAASLGLKVNAGHGLTYHNVK

AIAAIPEMHELNIGHAIIGRAVMTGLKDAVAEMKRLMLEARG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1186
MGSDKIHHHHHHMIVQRRNHRFLEVLSGKERVKIIAEFKKASPSAGDINADASLEDFIRMYDELADA
ISILTEKHYFKGDPAFVRAARNLTCRPILAKDFYIDTVQVKLASSVGADAILIIARILTAEQIKEIYEAAE
ELGMDSLVEVHSREDLEKVFSVIRPKIIGINTRDLDTFEIKKNVLWELLPLVPDDTVVVAESGIKDPRE
LKDLRGKVNAVLVGTSIMKAENPRRFLEEMRAWSE
11111100011100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1187
MGVEKVPKYDIPVKKVEYVFIELDKMKPHEQLVQRELEDFIESVTGSGIFWKPMLLAKIPGTDEYLIV
DGHHRWAGLQKLGAKRAPSVILDYFDEGVKVYTWYPAFKGDVNKVIERLKAEGLEVIEDEKAEEKA
EKGEIAFALIGEKSFAIPGGLEEQKKVSKVLDEMDQAKEIELVYYGLKEDAKADMEKGEIDYVFIRKAP
TKEEVMELVKRGEVFSPKTTRHVLPFIPDKIDVKLEDLF
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1188
GSYFSKQIIWQEVDRTKQQTSALIHNIFDSHFAAIQIHHDSNSKSEVIRDFYTDRDTDVLNFFFLSIDQ
SDPSHTPEFRFLTDHKGIIWDDGNAHFYGVNDLILDSLANRVSFSNNWYYINVMTSIGSRHMLVRRV
PILDPSTGEVLGFSFNAVVLDNNFALMEKLKSESNVDNVVLVANSVPLANSLIGDEPYNVADVLQRKS
SDKRLDKLLVIETPIVVNAVTTELCLLTVQDNQSVVTL
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001111111111111
00000000000000000000001111111
>DM_train1189
MAETEALSKLREDFRMQNKSVFILGASGETGRVLLKEILEQGLFSKVTLIGRRKLTFDEEAYKNVNQE
VVDFEKLDDYASAFQGHDVGFCCLGTTRGKAGAEGFVRVDRDYVLKSAELAKAGGCKHFNLLSSKG
ADKSSNFLYLQVKGEVEAKVEELKFDRYSVFRPGVLLCDRQESRPGEWLVRKFFGSLPDSWASGHSV
PVVTVVRAMLNNVVRPRDKQMELLENKAIHDLGKAHGSLKP
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111
>DM_train1190
AIPKVPPGPNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVDKPPFSGMTGCGNTPIFKS
GRGCGSCFEIKCTKPEACSGEPVVVHITDDNEEPIAPYHFDLSGHAFGAMAKKGDEQKLRSAGELEL

QFRRVKCKYPEGTKVTFHVEKGSNPNYLALLVKYVNGDGDVVAVDIKEKGKDKWIELKESWGAIWR
IDTPDKLTGPFTVRYTTEGGTKTEAEDVIPEGWKADTSYESK
00000000000000000000000000011111111110000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1191
MKLIFLSGVKRSGKDTTADFIMSNYSAVKYQLAGPIKDALAYAWGVFAANTDYPCLTRKEFEGIDYDR
ETNLNLTKLEVITIMEQAFCYLNGKSPIKGVFVFDDEGKESVNFVAFNKITDVINNIEDQWSVRRLM
QALGTDLIVNNFDRMYWVKLFALDYLDKFNSGYDYYIVPDTRQDHEMDAARAMGATVIHVVRPGQ
KSNDTHITEAGLPIRDGDLVITNDGSLEELFSKIKNTLKVL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111110000
00000000000000000000000000
>DM_train1192
EEACELPECQEDAGNKVCSLQCNNHACGWDGGDCSLNFNDPWKNCTQSLQCWKYFSDGHCDSQC
NSAGCLFDGFDCQRAEGQCNPLYDQYCKDHFSDGHCDQGCNSAECEWDGLDCAEHVPERLAAGTL
VVVVLMPPEQLRNSSFHFLRELSRVLHTNVVFKRDAHGQQMIFPYYGMDVRGSIVYLEIDNRQCVQ
ASSQCFQSATDVAAFLGALASLGSLNIPYKIEAVQSETVEPPPPAQ
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111
>DM_train1193
GAGTQTAQTQALDSDGIPTGGEWITMFDGKTLNGWRGYCRQDVPLGWVVEDGSITYKGSDNKADT
GFGDLIYDKKFKNFVFEIEWKIDKAGNSGIFYTAQEIEGTPIYYSSPEYQLLDNENMPDAWEGCDGN
RQAGAVYDMIMPDPQPVKPYGNWNKTRIVVYNQRVIHYMNDVKILEFQFGTPVWRALVDHSKFSK
FSTSPEKCPEAYDLMLQCGKQPGYIGMQDHGYGVCFRNIRIKEL
11111111110000000000000000000000000000000000000000000001111111100000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1194
EELPAPVKAIEKQGITIIKTFDAPGGMKGYLGKYQDMGVTIYLTPDGKHAISGYMYNEKGENLSNTLI
EKEIYAPAGREMWQRMEQSHWLLDGKKDAPVIVYVFADPFCPYCKQFWQQARPWVDSGKVQLRT
LLVGVIKPESPATAAAILASKDPAKTWQQYEASGGKLKLNVPANVSTEQMKVLSDNEKLMDDLGAN
VTPAIYYMSKENTLQQAVGLPDQKTLNIIMGNKLQHHHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111111
>DM_train1195
MWDTSKDYRLLVAEKSVELFIRTIEGAKFRGQWDKKRSIQLAKEMIPDIQALRYSYIDPEELVDTPQ

MKDLKEKAKGIIEALGGEDWHHKFLSQASREDREKVEEQVARIKFFLNTILNLDRRLKLGKINDPVI
AVDIVVGEVMSVGKHPSADRLLVTNVNIGERAVTVVTNDLTVKEGNRVAVALLPPRNFFGIVSEGMF
LGAGEGVLKNVKGEIGGLPKGIPLEALNETRNAVEAFLKG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001
>DM_train1196
MPINRPNLNLNIPPLNIVAAYDGAEIPSTNKHLKNNFNSLHNQMRKMPVSHFKEALDVPDYSGMRQ
SGFFAMSQGFQLNNHGYDVFIHARRESPQSQGKFAGDKFHISVLRDMVPQAFQALSGLLFSEDSPVD
KWAVTDMEKVVQQARVSLGAQFTLYIKPDQENSQYSASFLHKTRQFIECLESRLSENGVISGQCPESD
VHPENWKYLSYRNELRSGRDGGEMQRQALREEPFYRLMTE
111111111111111111111110000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1198
MGRAFEYRRAAKEKRWDKMSKVFPKLAKAITLAAKDGGSEPDTNAKLRTAILNAKAQNMPKDNID
AAIKRASSKEGNLSEITYEGKANFGVLIIMECMTDNPTRTIANLKSYFNKTQGASIVPNGSLEFMFNR
KSVFECLKNEVENLKLSLEDLEFALIDYGLEELEEVEDKIIIRGDYNSFKLLNEGFESLKLPILKASLQR
IATTPIELNDEQMELTEKLLDRIEDDDDVVALYTNIE
111111111111111111110000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1199
MQQASTPTIGMIVPPAAGLVPADGARLYPDLPFIASGLGLGSVTPEGYDAVIESVVDHARRLQKQGAA
VVSLMCTSLSFYRGAAFNAALTVAMREATGLPCTTMSTAVLNGLRALGVRRVALATAYIDDVNERLA
AFLAEESLVPTGCRSLGITGVEAMARVDTATLVDLCVRAFEAAPDSDGILLSSGGLLTLDAIPEVERRL
GVPVVSSSPAGFWDAVRLAGGGAKARPGYGRLFDES
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1200
MSLYDVTEWKHVFKLDPNKDLPDEQLEILCESGTDAVIIGGSDGVTEDNVLRMMSKVRRFLVPCVL
EVSAIEAIVPGFDLYFIPSVLNSKNADWIVGMHQKAMKEYGELMSMEEIVAEGYCIANPDCKAAALTE
ADADLNMDDIVAYARVSELLQLPIFYLEYSGVLGDIEAVKKTKAVLETSTLFYGGGIKDAETAKQYAEH
ADVIVVGNAVYEDFDRALKTVAAVKGEEGGSHHHHHH
110000000000000000000000000000000000000011111100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111111111
>DM_train1201

GMKYKAAIFDMDGTILDTSADLTSALNYAFEQTGHRHDFTVEDIKNFFGSGVVVAVTRALAYEAGSS
RESLVAFGTKDEQIPEAVTQTEVNRVLEVFKPYYADHCQIKTGPFPGILDLMKNLRQKGVKLAVVSN
KPNEAVQVLVEELFPGSFDFALGEKSGIRRKPAPDMTSECVKVLGVPRDKCVYIGDSEIDIQTARNSE
MDEIAVNWGFRSVPFLQKHGATVIVDTAEKLEEAILGE
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>DM_train1202
NDDKLYRADSRPPDEIKQSGGLMPRGQSESFDRGTQMNINLYDHARGTQTGFVRHDDGYVSTSISLR
SAHLVGQTILSGHSTYYIYVIATAPNMFNVNDVLGAYSPHPDEQEVSALGGIPYSQIYGWYRVHFGVL
DEQLHRNRGYRDRYYSNLDIAPAADGYGLAGFPPEHRAWREEPWIHHAPPGCGNAPRSSMSNTCD
EKTQSLGVKFLDEYQSKVKRQIFSGYQSDIDTHNRIKDEL
0000000000000000000000000001111111000000000000100000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011111111100000000000000000
0000000000000000000000011111
>DM_train1204
MRLVQLSRHSIAFPSPEGALREPNGLLALGGDLSPARLLMAYQRGIFPWFSPGDPILWWSPDPRAVL
WPESLHISRSMKRFHKRSPYRVTMNYAFGQVIEGCASDREEGTWITRGVVEAYHRLHELGHAHSIE
VWREDELVGGMYGVAQGTLFCGESMFSRMENASKTALLVFCEEFIGHGGKLIDCQVLNDHTASLGAC
EIPRRDYLNYLNQMRLGRLPNNFWVPRCLFSPQEGLCGR
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001110000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111
>DM_train1205
MDIRPRLRIGQINLGGAEDATRELPSIARDLGLDIVLVQEQYSMVGFLAQCGAHPKAGVYIRNRVLPC
AVLHHLSSTHITVVHIGGWDLYMVSAYFQYSDPIDPYLHRLGNILDRLRGARVVICADTNAHSPLWH
SLPRHYVGRGQEVADRRAKMEDFIGARRLVVHNADGHLPTFSTANGESYVDVTLSTRGVRVSEWRV
TNESSSDHRLIVFGVGGGTTGERDEDEEARSDLRPGEP
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000011111111111111111111111
>DM_train1206
GLPVMNTPGSNQYLTADNFQSPCALPEFDVTPPIDIPGEVKNMMELAEIDTMIPFDLSATKKNTME
MYRVRLSDKPHTDDPILCLSLSPASDPRLSHTMLGEILNYYTHWAGSLKFTFLFCGSMMATGKLLVS
YAPPGADPPKKRKEAMLGTHVIWDIGLQSSCTMVVPWISNTTYRQTIDDSFTEGGYISVFYQTRIVV
PLSTPREMDILGFVSACNDFSVRLLRDTTHIEQKALAQ
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000111

>DM_train1207
GVNPRGLGPLQIWQTDFTLEPRMAPRSWLAVTVDTASSAIVVTQHGRVTSVAVQHHWATAIAVLGR
PKAIKTDNGSCFTSKSTREWLARWGIAHTTGIPGNSQGQAMVERANRLLKDRIRVLAEGDGFMKRI
PTSKQGELLAKAMYALNHKERGENTKTPIQKHWRPTVLTEGPPVKIRIETGEWEKGWNVLVWGRG
YAAVKNRDTDKVIWVPSRKVKPDITQKDEVTKKDEASPLFA
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111100000000000000000000000000000000000000000000000000000
00000011111111111111111111
>DM_train1209
MSLATTHLDVCAVVPAAGFGRRMQTECPKQYLSIGNQTILEHSVHALLAHPRVKRVVIAISPGDSRFA
QLPLANHPQITVVDGGDERADSVLAGLKAAGDAQWVLVHDAARPCLHQDDLARLLALSETSRTGGI
LAAPVRDTMKRAEPGKNAIAHTVDRNGLWHALTPQFFPRELLHDCLTRALNEGATITDEASALEYC
GFHPQLVEGRADNIKVTRPEDLALAEFYLTRTIHQENT
11111110000000001111111111000000000000000000000000000000001110000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001100000000000111111111
>DM_train1210
MKEEAVRVIEEVLKQGRTAMVEYEAKQVLKAYGLPVPEEKLAKTLDEALEYAKEIGYPVVLKLMSPQ
ILHKSDAKVVMLNIKNEEELKKKWEEIHENAKKYRPDAEILGVLVAPMLKPGREVIIGVTEDPQFGH
AIMFGLGGIFVEILKDVTFRLVPITEKDARKMIQEIKAYPILAGARGEEPADIDAIVDMLLKVSKLVDD
LKDYIKEMDLNPVFVYNKGEGAVIVDSRIILKPKD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000110000000000000000000000000000000
00000000000000000000001
>DM_train1211
MASMTGGQQMGRGSEFSDKMSSFLHIGDICSLYAEGSTNGFISTLGLVDDRCVVQPEAGDLNNPPKK
FRDCLFKLCPMNRYSAQKQFWKAAKPGANSTTDAVLLNKLHHAADLEKKQNETENRKLLGTVIQY
GNVIQLLHLKSNKYLTVNKRLPALLEKNAMRVTLDEAGNEGSWFYIQPFYKLRSIGDSVVIGDKVVL
NPVNAGQPLHASSHQLVDNPGCNEVNSVNCNTSWKIVLF
11111111111111111111000000000000000000000000000000000000000000000000
00000000000000000001111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>DM_train1212
PEFMVTTEPALADLQEQLYNGNEKSQLAAMSTLSTAGTEGYHLLQEFLKDSATFSPPPAPWIRGQAY
RLLFHSPEASVQAFLQQHYPQGVIPLRSDRGVDYQELAKLLVAEKFEAADRLTTQKLCELAGPLAQK
RRWLYFTEVEQLPIPDLQTIDQLWLAFSLGRFGYSVQRQLWLGCGQNWDRLWEKIGWRQGKRWP
RYPNEFIWDLSAPRGHLPLTNQLRGVQVLNALLNHPAWTA
00000011000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000
>DM_train1213
MKIWSKEEVVNKLHEIKNKGYLSVPTDMFRTDDGVVGQILERQFGVQENNITLGDLGEFELKGMRN
RKAKSNLTLFHKKPVAGQTVIQIFNRFGYVKPSSRNPEVMKKKLFTTIKGGRLNNLGLTLNAKHASEI
NLYYQDEYLSTWDLNLSKIEKLVLVFAETIGRANSPEEQFHFTKAYMLTEINDITSLINDGVLVMDLCI
DQDLSKSKGPHDRGPHLRIPISKLDKLYRNIERLL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001111000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1214
MVHGKLKEAAEVTGSVSLEALEEVQVGENIEVGVGIDELVNAEAFAYDFTLNYDENAFEYVEAISDD
GVFVNAKKIEDGKVRVLVSSLTGEPLPAKEVLAKVVLRAEAKTEGSNLSVTNSSVGDGEGLVHEIAGT
EKTVNIIEGTSPEIVVNPVRDFKASEINKKNVTVTWTEPETTEGLEGYILYKDGKKVAEIGKDETSYT
FKKLNRHTIYNFKIAAKYSNGEVSSKESLTLRTAR
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train1215
SNAMTNVLYQHGTLGTLMAGLLEGTATINELLEHGNLGIATLTGSDGEVIFLDGKAYHANEHKEFIEL
KGDEKVPYASITNFKASKTFPLQQLSQDDVFAQIKNEMLSENLFSAVKIYGTFKHMHVRMMPAQQP
PYTRLIDSARRQPEEKRQDIRGAIVGFFTPELFHGVGSAGFHIHFADDERAYGGHVLDFEVDDVVVEI
QNFETFQQHFPVNNETFVKAKIDYKDVAEEIREAE
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1216
MRLRVDVIPGEHLAYPDVVLVVDVIRATTTAAAFLEAGAEALYWTPSLESALAFKDEDVVLAGETGG
LKPPRFDLGNSPREALSAQVAGRVVVMSTTNGTKAAHAAARTAKHVLLASLYNAHAAARLARELAT
EEVAILCAGKEGRAGLDDLYTAGVLAEYLGFLGEVEPEDGARVALAVKRAYPDPLEALSLSAAALALK
QVGLEADVPFCAQVAKSAAVPVLRGRVGEALIFKRA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001111000000
>DM_train1217
MGTKLKKSNNDITIFSENEYNEIVEMLRDYSNGDNLEFEVSFKNINYPNFMRITEHYINITPENKIES
NNYLDISLIFPDKNVYRVSLFNQEQIGEFITKFSKASSNDISRYIVSLDPSDDIEIVYKNRGSGKLIGIDN
WAITIKSTEEIPLVAGKSKISKPKITGSERIMYRYKTRYSFTINKNSRIDITDVKSSPIIWKLMTVPSNYE
LELELINKIDINTLESELLNVFMIIQD
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

000000000000010000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1218
TYNISVVGLSGTEKEKGQCGIGKSCLCNRFVRPSADEFHLDHTSVLSTSDFGGRVVNNDHFLYWGEV
SRSLEDCVECKMHIVEQTEFIDDQTFQPHRSTALQPYIKRAAATKLASAEKLMYFCTDQLGLEQDFE
QKQMPDGKLLVDGFLLGIDVSRGMNRNFDDQLKFVSNLYNQLAKTKKPIVVVLTKCDEGVERYIRDA
HTFALSKKNLQVVETSARSNVNVDLAFSTLVQLIDK
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001111000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1219
NNILFGLSHEGSHPQTLHAAQSLELSSFRFTMQSDCNLVLFDSDVRVWASNTAGATGCRAVLQSDGL
LVILTAQNTIRWSSGTKGSIGNYVLVLQPDRTVTIYGPGLWDSGTSNKGSVVVANNGNSILYSTQGND
NHPQTLHATQSLQLSPYRLSMETDCNLVLFDRDDRVWSTNTAGKGTGCRAVLQPNGRMDVLTNQN
IAVWTSGNSRSAGRYVFVLQPDRNLAIYGGALWTTG
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111100000000111100000000000000000000000000000000000000
000000000000000000000000000000000000000011100000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1220
MTDGEAVSAAAGPGAEGPPGPVGHWAPGSHILWRYRENGGPHVHIARPVTVVRDDADLLAVWLAP
GTECVKPVLADGTPVHLEPLATRYTKPRTVQRDQWFGTGVLKLARPGEAWSVWLFWDPGWRFKN
WYVNLERPLTRWEGGVDSEDHFLDISVHPDRTWHWRDEDEFAQALRDGLMDPASAGRVRRAGRS
AVAEIRAWGSPFADGWEHWRPDPAWPVPSLPGDWDRTPAHVSS
111111111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111
>DM_train1221
EVKKKKNKKKNKKVNGLPPEIAAVPELAKYWAQRYRLFSRFDDGIKLDREGWFSVTPEKIAEHIAG
RVSQSFKCDVVVDAFCGVGGNTIQFALTGMRVIAIDIDPVKIALARNNAEVYGIADKIEFICGDFLLLAS
FLKADVVFLSPPWGGPDYATAETFDIRTMMSPDGFEIFRLSKKITNNIVYFLPRNADIDQVASLAGPG
GQVEIEQNFLNNKLKTITAYFGDLIRRPASET
111111111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000111111
>DM_train1222
MLTEGISIQSYDGHTFGALVGSPAKAPAPVIVIAQDIFGVNAFMRETVSWLVDQGYAAVCPDLYARQA
PGTALDPQDERQREQAYKLWQAFDMEAGVGDLEAAIRYARHQPYSNGKVGLVGYSLGGALAFLVASK
GYVDRAVGYYGVGLEKQLNKVPEVKHPALFHMGGQDHFVPAPSRQLITEGFGANPLLQVHWYEEAG
HSFARTGSSGYVASAAALANERTLDFLVPLQSRKP
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111
>DM_train1223
GSAPSATPIFAPGENCSPAWGAAPAAYDAADTHLRILGKPVMERWETPYMHALAAAASSKGGRVLE
VGFGMAIAASKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTLPDGHFDGIL
YDTYPLSEETWHTHQFNFIKNHAFRLLKPGGVLTYCNLTSWGELMKSKYSDITIMFEETQVPALLEA
GFRRENIRTEVMALVPPADCRYYAFPQMITPLVTKG
1111111111111111100000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>DM_train1224
GMTTRKPFIICDFDGTITMNDNIINIMKTFAPPEWMALKDGVLSKTLSIKEGVGRMFGLLPSSLKEEI
TSFVLEDAKIREGFREFVAFINEHEIPFYVISGGMDFFVYPLLEGIVEKDRIYCNHASFDNDYIHIDWP
HSCKGTCSNQCGCCKPSVIHELSEPNQYIIMIGDSVTDVEAAKLSDLCFARDYLLNECREQNLNHLPY
QDFYEIRKEIENVKEVQEWLQNKNAGESSLK
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111111
>DM_train1225
MSPVLTTPKRHAPPPEQLQNVTDFNYTPSHQKPFLQPQAGTTVTTHQDIKQIVEMTLGSEGVLNQA
VKLPRGEDENEWLAVHCVDFYNQINMLYGSITEFCSPQTCPRMIATNEYEYLWAFQKGQPPVSVSAP
KYVECLMRWCQDQFDDESLFPSKVTGTFPEGFIQRVIQPILRRLFRVYAHIYCHHFNEILELNLQTVL
NTSFRHFCLFAQEFELLRPADFGPLLELVMELRDR
1100000111111111111000000000000000111111111111000000000000000111000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train1226
MSEWKARRFWASVGIHKEEGGWAVLLDERPLRTPGKQPLRLPTEALALAIAEEWQAVQEVIDPNA
MPLTRSANSAIEKVAPQFDAVAAMLGDYGGTDLLSYRADAPEALVRAQAEGWDPLIDWAATELRAP
LRITHGVIPVPQDPVVLLKLRAEVASLDPFGLTALHDLVTLPGSLILGLAVIRGRIDAPTAHALSRIDEE
FQAERWGRDEEAEAQAASRLAAMRDSERFWHLTRG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train1227
MHLYSSDFPLMMDEKELYEKWMRTVEMLKAEGIIRSKEVERAFLKYPRYLSVEDKYKKYAHIDEPL
PIPAGQTVSAPHMVAIMLEIANLKPGMNILEVGTGSGWNAALISEIVKTDVYTIERIPELVEFAKRNLE
RAGVKNVHVILGDGSKGFPPKAPYDVIIVTAGAPKIPEPLIEQLKIGGKLIIPVGSYHLWQELLEVRKT
KDGIKIKNHGGVAFVPLIGEYGWKEHHHHHH

111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001111111
>DM_train1228
GSPEFATMSVSEIFVELQGFLAAEQDIREEIRKVVQSLEQTAREILTLLQGVHQGTGFQDIPKRCLKAR
EHFSTVKTHLTSLKTKFPAEQYYRFHEHWRFVLQRLVFLAAFVVYLETETLVTREAVTEILGIEPDRE
KGFHLDVEDYLSGVLILASELSRLSVNSVTAGDYSRPLHISTFINELDSGFRLLNLKNDSLRKRYDGLK
YDVKKVEEVVYDLSIRGFNKETAAACGEK
111111100000000000000000000000000000000000000000011111110000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000011111111111
>DM_train1229
MNRLLNEKVEEFKKGVLKAGWFIEKMFRNSISSLVERNESLAREVIADEEVVDQMEVEIQEKAMEV
LGLFSPIGKPLLTVTAGIRVAELIENIADKCHDIAKNVLELMEEPPLKPLEDIPAMANQTSEMLKFALR
MFADVNVEKSFEVCRMDSKVDDLYEKVREELLLYMMESPKYVKRALLLLEIAGNIEIIADYATNIVEV
SVYMVQGEAYKCYHDELLLFKKSGGVLFESSD
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000111111111
>DM_train1230
MKRYRTLLFDVDDTILDFQAAEALALRLLFEDQNIPLTNDMKAQYKTINQGLWRAFEEGKMTRDE
VVNTRFSALLKEYGYEADGALLEQKYRRFLEEGHQLIDGAFDLISNLQQQFDLYIVTNGVSHTQYKRL
RDSGLFPFFKDIFVSEDTGFQKPMKEYFNYVFERIPQFSAEHTLIIGDSLTADIKGGQLAGLDTCWMN
PDMKPNVPEIIPTYEIRKLEELYHILNIENTVSC
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000111
>DM_train1231
MGLMKFQLFIQPKLDVLQGNIVEYEILLRDDSAVPRFPLSELEAVLADEELYLAFSEWFSEAFLDVLK
KYPNDRFAINIAPQQLFYIETLHWLDKLKSESHRITVEMTEDIFDVPGHKRHLNANDKNAFILNKIK
VIHGLGYHIAIDDVSCGLNSLERVMSYLPYIIEIKFSLIHFKNIPLEDLLLFIKAWANFAQKNKLDFVVE
GIETKETMTLLESHGVSIFQGYLVNKPFPV
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000
>DM_train1232
MGSSSSGLVPRGSTSEVIEDEKQFYSKAKTYWKQIPPTVDGMLGGYGHISSIDINSSRKFLQRFLREGP
NKTGTSCALDCGAGIGRITKRLLLPLFREVDMVDITEDFLVQAKTYLGEEGKRVRNYFCCGLQDFTP
EPDSYDVIWIQWVIGHLTDQHLAEFLRRCKGSLRPNGIIVIKDNMAQEGVILDDVDSSVCRDLDVVR

RIICSAGLSLLAEERQENLPDEIYHVYSFALR
11111111110000000000000000000000000000000000000000000000000000011110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000
>DM_train1233
MVSRLSTGILDFDKLIQGGIPQGFFIALTGEPGTGKTIFSLHFIAKGLRDGDPCIYVTTEESRDSIIRQAK
QFNWDFEEYIEKKLIIIDALMKEKEDQWSLVNLTPEELVNKVIEAKQKLGYGKARLVIDSVSALFLDK
PAMARKISYYLKRVLNKWNFTIYATSQYAITTSQAFGFGVEHVADGIIRFRRMIRNGELHRYILIEKMR
QTDHDKHVWEIDIVNGKGIVLKGRLEE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011110000000000000000000000000000000000000000000
00000000000000000000001111111111000000000000000000000000000000000000
000000000000000000000
>DM_train1234
GMSETITFPPLMTGEAAGPGQDPFDLACQKAELGVDAGLVVYELGTDVLRAALVLAPEVPLAKAMA
MLPVCGVGFQNALGALAPPEVAVHLDWNGALRINGARCGRLRIAASTDDPDTQPDWLVVGLDLPL
WPEGDGGETPDETALYAEGCADVAAPRLLESWARHCLHWINRWDEGELETIHGEWRGLAHGMGE
ARTEAGRSGTFLGVDEDFGMLLRDETTTHLIPLTTVLVQD
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001
>DM_train1235
NAKRDRIFVRVYNVMKRINCFINKNIKKSSTDSNYQLAVFMLMETMFFIRFGKMKYLKENETVGLLT
LKNKHIEISPDEIVIKFVGKDKVSHEFVVHKSNRLYKPLLKLTDDSSPEEFLFNKLSERKVYECIKQFGI
RIKDLRTYGVNYTFLYNFWTNVKSISPLPSPKKLIALTIKQTAEVVGHTPSISKRAYMATTILEMVKDK
NFLDVVSKTTFDEFLSIVVDHVKSSTDG
00000000000000000000000000000000000000000000000011111111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111
>DM_train1236
SETNTIFKLEGVSVLSPLRKKLDLVFYLSNVDGSPVITLLKGNDRELSIYQLNKNIKMASFLPVPEKPN
LIYLFMTYTSCEDNKFSEPVVMTLNKENTLNQFKKLGLLDSNVTDFEKCVEYIRKQAILTGFKISNPF
VNSTLVDTDAEKINSFHLQCHRGTKEGTLYFLPDHIIFGFKKPILLLDASDIESITYSSITRLTFNASLVT
KDGEKYEFSMIDQTEYAKIDDYVKRK
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
11111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000
>DM_train1237
LNEEQLSKRLEKVASYITKNERIADIGSDHAYLPCFAVKNQTASFAIAGEVVDGPFQSAQKQVRSSGLT
EQIDVRKGNGLAVIEKKDAIDTIVIAGMGGTLIRTILEEGAAKLAGVTKLILQPNIAAWQLREWSEQN

NWLITSEAILREDNKVYEIMVLAPSEKPVTWTKQEIFFGPCLLKEQSAIFKSKWRHEANTWQNIIQT
ISNNQPVSTENQAKIRELEHKIALVEDVLK
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1238
DIKVTPGTSELVEQILALLSRYLSSYIHVLNKFISHLRRVATLRFERTTLIKFVKKLRFYNDSVLSYNAS
EFINEGKNELDPEADSFDKVILPIASMFVKSVETFDLLNYYLTQSLQKEILSKTLNEDLTLTAESILAID
DTYNHFVKFSQWMIESLRIGSNLLDLEVVQFAIKSADEDGTNIGETDNIFLQEILPVNSEEEFQTLSA
AWHSILDGKLSALDEEFDVVATKWHD
1111111000000000000000000000000000000000000000000000000000000000000000000000
1111111111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001111111111111111111111111000000000000000000000
00000000000000000011
>DM_train1239
GMSRTLVLFDIDGTLLKVESMNRRVLADALIEVYGTEGSTGSHDFSGKMDGAIIYEVLSNVGLERAEI
ADKFDKAKETYIALFRERARREDITLLEGVRELLDALSSRSDVLLGLLTGNFEASGRHKLKLPGIDHY
FPFGAFADDALDRNELPHIALERARRMTGANYSPSQIVIIGDTEHDIRCARELDARSIAVATGNFTME
ELARHKPGTLFKNFAETDEVLASILTPKHS
1100000000000000000000000000000000000011100000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111
>DM_train1240
MASVTEQFNDIISLYSTKLEHTSLRQDSPEYQGLLLSTIKKLLNLKTAIFDRLALFSTNETIDDVSTASI
KFLAVDYYLGLLISRRQSNDSDVAQRQSMKLIYLKKSVESFINFLTLLQDYKLLDPLVGEKLGNFKDRY
NPQLSELYAQPKNNKDLSGAQLKRKEKIELFQRNKEISTKLHCLELELKNNDEDHDHDELLRELYLM
RLHHFSLDTINNIEQNLFECEMLSNFLK
1000000000000000000011000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111111
1111111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1241
MSGDENPASKPTPVQDVQGDGRWMSLHHRFVADSKDKEPEVVFIGDSAVQLMHQCEIWRELFSPL
HALNFGIGGDSTQHVLWRLENGELEHIRPKIVVVWVGTNNHGHTAEQVTGGIKAIVQLVNERQPQA
RVVVLGLLPRGQHPNPLREKNRRVNELVRAALAGHPRAHFLDADPGFVHSDGTISHHDMYDYLHLS
RLGYTPVCRALHSLLLRLLTQDQGQGGAPLPEPSPP
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00011111111111111111
>DM_train1242
ARSEKRVPMTRLRKRVAERLLEAKNSTAMLTTFNEVNMKPIMDLRKQYGEAFEKRHGIRLGFMSFY

VKAVVEALKRYPEVNASIDGDDVVYHNYFDVSMAVSTPRGLVTPVLRDVDTLGMADIEKKIKELAVK
GRDGKLTVEDLTGGNFTITNGGVFGSLMSTPIINPPQSAILGMHAIKDRPMAVNGQVEILPMMYLAL
SYDHRLIDGRESVGFLVTIKELLEDPTRLLLDV
11100011111100000000000000000000000000000000000000000000000000000000
00000000000001111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>DM_train1243
SVPFEYTPIAQSVLDECEHLDTASLSDALDSLGIDGGLPGIASQVPGTRCVGIAFTVQYQPVDASEGFR
GAANYIDQVPSGSVIVSSNSGRHDCTVWGDIMTHFALANGIKGTVIDGVARDIDTVINCNYPLFSRGR
FMQSAKNRTQLKAVQVPLVIDGITIQPGDLMVCDGSGCVVVPQQLAAEVVLRARAVEQTERRIIEAIS
SGSTLEQARMTYRYDQPWLSEAEHGGTQ
11111000000000000000000000000000000000000000000000000000000111111111
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0011111111111111111
>DM_train1244
KGFSSEDKGEWKLKLDASGNGQAVIRFLPAKTDDALPFAILVNHGFKKNGKWYIETCSSTHGDYDSC
PVCQYISKNDLYNTNKTEYSQLKRKTSYWANILVVKDPQAPDNEGKVFKYRFGKKIWDKINAMIAV
DTEMGETPVDVTCPWEGANFVLKVKQVSGFSNYDESKFLNQSAIPNIDDESFQKELFEQMVDLSEM
TSKDKFKSFEELNTKFNQVLGTAALGGAAAAAAS
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000111111111111
>DM_train1245
RAQANEDIVVSKTSLWKEMQYNRDITIRFKFASSIVKSGGLGYKWSEISFKPANYQYTYTRDGEEVTA
HTTCSVNGMNDFNFNGGSLPTDFVISRYEVIKENSYVYVDYWDDSQAFRNMVYVRSLAANLNSVIC
TGGDYSFALPVGQWPVMTGGAVSLHSAGVTLSTQFTDFVSLNSLRFRFRLTVEEPSFSITRTRVSRLY
GLPAANPNNGKEYYEVAGRFSLISLVPSNDD
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111
>DM_train1246
DNSNGSTIPSSITSGSIFDLEGDNPNPLVDDSTLVFVPLEAQHITPNGNGWRHEYKVKESLRVAMTQT
YEVFEATVKVEMSDGGKTIISQHHASDTGTISKVYVSDTDESGFNDSVANNGIFDVYVRLRNTSGNE
EKFALGTMTSGETFNLRVVNNYGDVEVTAFGNSFGIPVEDDSQSYFKFGNYLQSQDPYTLDKCGEAG
NSNSFKNCFEDLGITESKVTMTNVTYTRETN
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>DM_train1247

TTVYLAGDSTMAKNGGGSGTNGWGEYLASYLSATVVNDAVAGRSARSYTREGRFENIADVVTAGDY
VIVEFGHNDGGSLSTDNGRTDCSGTGAEVCYSVYDGVNETILTFPAYLENAAKLFTAKGAKVILSSQTP
NNPWETGTFVNSPTRFVEYAELAAEVAGVEYVDHWSYVDSIYETLGNATVNSYFPINHTHTSPAGA
EVVAEAFLKAVVCTGTSLKSVLTTTSFEGTCL
00000000000000000000000000000000000000000000000000000000000000000000
00000001100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>DM_train1248
MGSDKIHHHHHHHMKIDILDKGFVELVDVMGNDLSAVRAARVSFDMGLKDEERDRHLIEYLMKHGH
ETPFEHIVFTFHVKAPIFVARQWFRHRIASYNELSGRYSKLSYEFYIPSPERLEGYKTTIPPERVTEKIS
EIVDKAYRTYLELIESGVPREVARIVLPLNLYTRFFWTVNARSLMNFLNLRADSHAQWEIQQYALAIA
RIFKEKCPWTFEAFLKYAYKGDILKEVQV
11111111110000000000000000000000000000000001111000000000000000000000
00000000000000000000000000001111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000011111
>DM_train1249
GSHMSQPRPLLSPPETEEQLLAQAQQLSGYTLGELAALVGLVTPENLKRDKGWIGVLLEIWLGASAG
SKPEQDFAALGVELKTIPVDSLGRPLETTFVCVAPLTGNSGVTWETSHVRHKLKRVLWIPVEGERSIP
LAQRRVGSPLLWSPNEEEDRQLREDWEELMDMIVLGQVERITARHGEYLQIRPKAANAKALTEAIG
ARGERILTLPRGFYLKKNFTSALLARHFLIQ
11111000000000000000000000000000000000000000000000000000000000001111
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111000000000000000000
0000000000000000000
>DM_train1250
MSVEGLGKDFCGAIIPDNFFPIEKLRNYTQMGLIRDFAKGSAVIMPGEEITSMIFLVEGKIKLDIIFEDG
SEKLLYYAGGNSLIGKLYPTGNNIYATAMEPTRTCWFSEKSLRTVFRTDEDMIFEIFKNYLTKVAYYAR
QVAEMNTYNPTIRILRLFYELCSSQGKRVGDTYEITMPLSQKSIGEITGVHHVTVSRVLASLKRENILD
KKKNKIIVYNLGELKHLSEQTSYY
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
000000000000011111
>DM_train1251
MSLITMKKIGVILSGCGVYDGSEIHEAVLTLLAISRSGAQAVCFAPDKQQVDVINHLTGEAMTETRNVL
IEAARITRGEIRPLAQADAAELDALIVPGGFGAAKNLSNFASLGSECTVDRELKALAQAMHQAGKPLG
FMCIAPAMLPKIFDFPLRLTIGTDIDTAEVLEEMGAEHVPCPVDDIVVDEDNKIVTTPAYMLAQNIAE
AASGIDKLVSRVLVLAEEGGSHHHHHH
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000011111111111

>DM_train1252
MAAYQVLIVGAGFSGAETAFWLAQKGVRVGLLTQSLDAVMMPFLPPKPPFPPGSLLERAYDPKDERV
WAFHARAKYLLEGLRPLHLFQATATGLLLEGNRVVGVRTWEGPPARGEKVVLAVGSFLGARLFLGG
VVEEAGRLSEASYPDLLEDLSRLGFRFVEREGEVPETPSTPGYRVRYLAFHPEEWEEKTFRLKRLEG
LYAVGLCVREGDYARMSEEGKRLAEHLLHELG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111100000000000000000000000000000000000000
0000000000000000001
>DM_train1253
GSHMAKTLKDLDGWQVIITDDQGRVIDDNNRRRSRKRGGENVFLKRISDGLSFGKGESVIFNDNVT
ETYSVYLIHEIRLNTLNNVVEIWVFSYLRWFELKPKLYYEQFRPDLIKEDHPLEFYKDKFFNEVNKSE
LYLTAELSEIWLKDFIAVGQILPESQWNDSSIDKIEDRDFLVRYACEPTAEKFVPIDIFQIIRRVKEMEP
KQSDEYLKRVSVPVSGQKTNRQVMHKMG
11111111110000000000000001111111111110000000000000000000000000000000
00000001111100000000000000000000000000000000000000000000000000000000
00000000000000000001111111000000000000000000000000000000000000000000
0000011111111111111
>DM_train1254
MWKTASDKGLGHLLRDVWSLLNEEERELLDKEIQPFPCKKASTVFSEGDIPNNLFYLYEGKIKILRE
GVYGRFHISRIVKPGQFFGMRPYFAEETCSSTAIAVENSKVLAIPVEAIEALLKGNTSFCRYFLKALAK
ELGYAERRTVTLTQKHVRGRLAETLLILKENFGFENDGATLSIYLSREELATLSNMTVSNAIRTLSTFV
SERMLALDGKRIKIIDCDRLQKTARSG
11111111100000000000000000000000000000000000000000000000000000011111
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1255
EIAVQNPLVSERLELSVLYKEYAEDDNIYQQKIKDLHKKYSYIRKTRPDGNCFYRAFGFSHLEALLDDS
KELQRFKAVSAKSKEDLVSQGFTEFTIEDFHNTFMDLIEQVEKQTSVADLLASFNDQSTSDYLVVYLR
LLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVEPMCKESDHIHIIALAQALSVSIQVEYMDRGEGGTT
NPHIFPEGSEPKVYLLYRPGHYDILYK
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1256
MPPKRAALIQNLRDSYTETSSFAVIEEWAAGTLQEIEGIAKAAAEAHGVIRNSTYGRAQAEKSPEQLL
GVLQRYQDLCHNVYCQAETIRTVIAIRIPEHKEEDNLGVAVQHAVLKIIDELEIKTLGSGEKSGSGGAP
TPIGMYALREYLSARSTVEDKLLGSVDAESGKTKGGSQSPSLLLELRQIDADFMLKVELATTHLSTMV
RAVINAYLLNWKKLIQPRTGTDHMVS
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000111111111111111111111111111000000000000000000000000000000000000

0000000000000000000
>DM_train1257
MSLIFLDYDGTLVPIIMNPEESYADAGLLSLISDLKERFDTYIVTGRSPEEISRFLPLDINMICYHGACS
KINGQIVYNNGSDRFLGVFDRIYEDTRSWVSDFPGLRIYRKNLAVLYHLGLMGADMKPKLRSRIEEIA
RIFGVETYYGKMIIELRVPGVNKGSAIRSVRGERPAIIAGDDATDEAAFEANDDALTIKVGEGETHAKF
HVADYIEMRKILKFIEMLGVQKKQ
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001
>DM_train1258
MEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMDPELLSMVPRPVCAVLLLFPITEKYEVF
RTEEEEKIKSQGQDVTSSVYFMKQTISNACGTIGLIHAIANNKDKMHFESGSTLKKFLEESVSMSPEE
RARYLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHLYELDGRKPFPINHGETSDETL
LEDAIEVCKKFMERDPDELRFNAIALSAA
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000111111111111111111110000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train1260
DLGAPQNPNAKAAGSRKIHFNWLPPSGKPMGYRVKYWIQGDSESEAHLLDSKVPSVELTNLYPYCD
YEMKVCAYGAQGEGPYSSLVSCRTHQEVPSEPGRLAFNVVSSTVTQLSWAEPAETNGEITAYEVCYGL
VNDDNRPIGPMKKVLVDNPKNRMLLIENLRESQPYRYTVKARNGAGWGPEREAIINLATQPKRPM
SIPIIPDIPIVDAQSGEDYDSFLMYSDDVLR
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
01111111111111111
>DM_train1261
QSCVWYGECGIAYGDKRYNCEYSGPPKPLPKDGYDLVQELCPGFFFGQVSLCCDVRQLQTLKDNLQL
PLQFLSRCPSCFYNLLNLFCELTCSPRQSQFLQVTATEDYVDPVTNQTKTNVKELQYYVGQSFANAM
YNACRDVEAPSSNDKALGLLCGKDADACQATNWIEYMFNKDNGQAPFTITPVFSDFPVHGMEPMN
NATKGCDESVDEVTAPCSCQDCSIVCGPKPQ
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011111
>DM_train1262
GMADAPIDIFQSILSRKSIRAFTDQPVTQETIREILKLAARAPSGTNLQPWQVIVLTGKILQKVGQELS
QLVLSGIKGEREYHYYPRQWREPYLSRRRKVGLDLYKSLGIQKGDQEKMLHQKAKNFLFYGAPVGLL
FTIDHDMEMGSWLDLGMFMQTIMLAARGFGLDTCAQAAFADYHKQIRSLLSVPSDRHIICGMALGY
RDMNAPENNFETEREPIDNFVHFIKSYP
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1263
MSKNIVVAPSILSADFSRLGEEIKAVDEAGADWIHVDVMDGRFVPNITIGPLIVDAIRPLTKKTLDVH
LMIVEPEKYVEDFAKAGADIISVHVEHNASPHLHRTLCQIRELGKKAGAVLNPSTPLDFLEYVLPVCD
LILIMSVNPGFGGQSFIPEVLPKIRALRQMCDERGLDPWIEVDGGLKPNNTWQVLEAGANAIVAGSA
VFNAPNYAEAIAGVRNSKRPEPQLATV
1100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0011111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000111111
>DM_train1264
TKLYYEDQYIKEFKGEIIEVKEIDGKFHVLLDQTAFFPGGGGQMGDLGLIDGIKVLDVYEEEGKVYHV
LEKEPKKLKNLQCELDWERRFDGMQQHLGQHLLSGCFYDLFGANTCGFHLGKEISTVDIVGFLDEK
TIREAEKEANRLIFENLEVKSYAPSKKELKKVKTRRALPKTDEEIRIVEIVGLDLNACCGVHPRNTRD
LQVIKIRRWEKHKNATRIEYVAGNRAVS
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000001
>DM_train1266
LLHKRVVLASASPRRQEILSNAGLRFEVVPSKFKEKLDKASFATPYGYAMETAKQKALEVANRLYQKD
LRAPDVVIGADTIVTVGGLILEKPVDKQDAYRMLSRLSGREHSVFTGVAIVHCSSKDHQLDTRVSEFY
EETKVKFSELSEELLWEYVHSGEPMDKAGGYGIQALGGMLVESVHGDFLNVVGFPLNHFCKQLVKLY
YPPRPEDLRRSVKHDSIPAADTFEDLS
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000111000000000000000000000000000000000000111111111
11111111111111111
>DM_train1267
MTTGVRRRMGVEERRQQLIGVALDLFSRRSPDEVSIDEIASAAGISRPLVYHYFPGKLSLYEAALQRAS
DDLADRFVEPRQGPLGARLLRVMGRYFDFVDEHGPGFSALMRGGPAVGSTTTNALVDSVRQAAYVQ
ILSHLDVTEPPARLELVVRSWISLAESTALLWLDGRRIPRAELETQLVHDFAALMAVSAAYDEEMGAL
VRRVLADEPEDGPFGDLVDRLLALSAR
1111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000011111100000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
10000000000000011
>DM_train1268
TVSTINSTDALAMVEHSSELTLSITTPVGTKFVCRTPFIGTHTDKFLLVEMPKISADDLQYFFQEGFW
MNIRAISPRGEGALIHFRSQLMHILQEPVPMAFLSIPNTMQVSQLRKEPRFELNLAGKVLFDEHRGD
CELRDLSRSGCRFITPPLGKTYQVGDLVALEIFSDLRGTKTFPPLTGKICNLQRSLHHARYGLEFNEEG
RNNAKNLLAQLKFNGTKLTLNAEKKA
1000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000011111
>DM_train1269
GHHHHHHHGESLFKGPRDYNPISSTICHLTNESDGHTTSLYGIGFGPFIITNKHLFRRNNGTLLVQSL
HGVFKVKNTTTLQQHLIDGRDMIIIRMPKDFPPFPQKLKFREPQREERICLVTTNFQTKSMSSMVSD
TSCTFPSSDGIFWKHWIQTKDGQCGSPLVSTRDGFIVGIHSASNFTNTNNYFTSVPKNFMELLTNQE
AQQWVSGWRLNADSVLWGGHKVFMDKP
1111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1270
KERAERDISMVVSGLTPKEVMIVQKFAEKYRLALTDVITEETTHVIIKTDAEFVCERTLKYFLGIAGGK
WIVSYSWVIKSIQERKLLSVHEFEVKGDVVTGSNHQGPRRSRESQEKLFEGLQIYCCEPFTNMPKDE
LERMLQLCGASVVKELPLLTRDTGAHPIVLVQPSAWTEDNDCPDIGQLCKGRLVMWDWVLDSISVY
RCRDLDAYLVQNITCGRDGSEPQDSND
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000011111111111111111100000000000000000000000000
1111111111111111
>DM_train1271
MELLLLLSNSTLPGKAWLEHALPLIANQLNGRRSAVFIPFAGVTQTWDEYTDKTAEVLAPLGVNVTGI
HRVADPLAAIEKAEIIIVGGGNTFQLLKESRERGLLAPMADRVKRGALYIGWSAGANLACPTIRTTND
MPIVDPNGFDALDLFPLQINPHFTNALPEGHKGETREQRIRELLVVAPELTVIGLPEGNWIQVSNGQA
VLGGPNTTWVFKAGEEAVALEAGHRF
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001111111110000000000000000000000000000000000000000000
0000000000000000
>DM_train1272
MDKIKQLFANNYSWAQRMKEENSTYFKELADHQTPHYLWIACSDSRVPAEKLTNLEPGELFVHRNV
ANQVIHTDFNCLSVVQYAVDVLKIEHIIICGHTNCGGIHAAMADKDLGLINNWLLHIRDIWFKHGHL
LGKLSPEKRADMLTKINVAEQVYNLGRTSIVKSAWERGQKLSLHGWVYDVNDGFLVDQGVMATSRE
TLEISYRNAIARLSILDEENILKKDHLENT
0000000000000000000001111111111000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0011111111111111
>DM_train1273
SVDHGFLVTRHSQTTDDPQCPPGTKILYHGYSLLYVQGNERAHGQDLGTAGSCLRKFSTMPFLFCNI
NNVCNFASRNDYSYWLSTPEPMPMSMAPITGENIRPFISRCAVCEAPAMVMAVHSQTIQIPQCPTG
WSSLWIGYSFVMHTSAGAEGSGQALASPGSCLEEFRSAPFIECHGRGTCNYYANAYSFWLATIERSE
MFKKPTPSTLKAGELRTHVSRCQVCMRRT

11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011
>DM_train1274
MTTVRIPAGWPATEEEARAVQDELRGRVILDEPGPPPGTGRVTGVDVAYDDERDVVVAAAVVLDAA
TLDVVAEATAVGEVSFPYVPGLLAFREIPTVLAALDALPCPPGLIVCDGYGVAHPRRFGLASHLGVLTG
LPTIGVAKNPFTFSYEDPGAPRGSAAPLLAGADEVGRALRTQSGVKPVFVSVGHRVDLDHACAHTLA
LTPKYRIPETTRRADSLCRRALKEATA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1275
MNGIHDVGGMDGFGKVMYVKEEEDIYFTHDWERLALGLVAGCMAQGLGMKAFDEFRIGIELMRPV
DYLTSSYYGHWIATVAYNLVDTGVLDEKELDERTEVFSKKPDTKIPRREDPALVKLVEKALNDGLSPL
REISASPRFKVGERIKTKNIHPTGHTRFPRYARDKYGVIDEVYGAHVFPDDAAHRKGENPQYLYRVRF
EAEELWGYKQKDSVYIDLWESYMEPVSH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011
>DM_train1276
SHMTPDIILQRTGIDVRAVEQGDDAWHKLRLGVITASEVHNVIAKPRSGKKWPDMKMSYFHTLLAE
VCTGVAPEVNAKALAWGKQYENDARTLFEFTSGVNVTESPIIYRDESMRTACSPDGLCSDGNGLELK
CPFTSRDFMKFRLGGFEAIKSAYMAQVQYSMWVTRKNAWYFANYDPRMKREGLHYVVIERDEKY
MASFDEIVPEFIEKMDEALAEIGFVFGEQWR
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train1277
AESLPDLKIEKLDEGVYVHTSFEEVNGWGVVPKHGLVVLVNAEAYLIDTPFTAKDTEKLVTWFVERG
YKIKGSISSHFHSDSTGGIEWLNSRSIPTYASELTNELLKKDGKVQATNSFSGVNYWLVKNKIEVFYPG
PGHTPDNVVVWLPERKILFGGCFIKPYGLGNLGDANIEAWPKSAKLLKSKYGKAKLVVPSHSEVGDA
SLLKLTLEQAVKGLNESKKPSKPSN
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000111111111
>DM_train1278
GMSEDHPLDRPVWNSLGGPQSELDVASGNLRRLDPAYGPFAAAAPGAEAGLASLLQGDADEIWLVE
PEPVAPPPGTRVIRVAPLLQMIADGPVPSFDDPGIVALGETDVPEMTALALATEPGPWASGTWRYGQ
FYGVRIDGRLAAMAGERMRPAPNLAEVSGVCTWPEYRGRGLAARLIRKVIAGMAARGEVPYLHSYA

SNASAIRLYESLGFRARRAMTATLLGKST
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train1279
RTEQQAASLEQTAASMEQLTATVKQNAENARQASHLALSASETAQRGGKVVDNVVQTMRDISTSSQ
KIADIISVIDGIAFQTNILALNAAVEAARAGEQGRGFAVVAGEVRNLAQRSAQAAREIKSLIEDSVGKV
DVGSTLVESAGETMAEIVSAVTRVTDIMGEIASASDEQSRGIDQVGLAVAEMDRVTQQNAALVEQSA
AAAAALEEQASRLTEAVAVFRIQQQ
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train1280
REFPPPNPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPGQYSFSYQLEDEPWKL
CRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVGLVARLADE
SGHVVLRWLPPPETPMTSHIRYEVDVSAGQGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARMA
EPSFGGFWSEWSEPVSLLTPSDLDP
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000111111
>DM_train1281
MGSDKIHHHHHHMKNSFFSKFTPKEPKFFPLLKQLSDVLSASSVLLVESMEHDLPTERADYYKQIK
DMEREGDRLTHLIFDELSTTFITPFDREDIHDLASCMDDVIDGINSSAKRIVIYNPRPISESGKELSRLI
HEEAINIGKAMDELETFRKNPKPLRDYCTQLHDIENQADDVYELFITKLFEEEKDCIELIKIKEIMHE
LEKTTDAAEHVGKILKNLIVKYS
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train1282
MERPLESYKKEAAHAAIAYVQDGMVVGLGTGSTARYAVLELARRLREGELKGVVGVPTSRATEELAK
REGIPLVDLPPEGVDLAIDGADEIAPGLALIKGMGGALLREKIVERVAKEFIVIADHTKKVPVLGRGPV
PVEIVPFGYRATLKAIADLGGEPELRMDGDEFYFTDGGHLIADCRFGPIGDPLGLHRALLEIPGVVET
GLFVGMATRALVAGPFGVEELLP
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train1283
MSLIEERLKHYLEKQIPARDQYIEQMEREAHEQQVPIMDLLGMESLLHLLKMAAPARILEIGTAIGYS
AIRMAQALPEATIVSIERDERRYEEAHKHVKALGLESRIELLFGDALQLGEKLELYPLFDVLFIDAAKG

QYRRFFDMYSPMVRPGGLILSDNVLFRGLVAETDIEHKRHKQLATKIDTYNQWLLEHPQYDTRIFPV
GDGIAISIKRETKGDTDDEKAEG
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111111111111111100000000000000000000000
01111111111111
>DM_train1284
GEMDERLLQKYRAQVFEWGGCFDKMFEALKSLIYLSEFENSEFDDEERHLLTLCIKHKISDYRTMTS
QVLQEQTKQLNNDELVKICSEYVFSLRKDIKAFLQSFEDCVDRLVEKSFFSKFFKLKVKSDISRYKLEF
GLCSLEDSKKIHQDAFTLLCEHPDKIEQLPLGFIQNLAYILSEKYGEKKQVFNMLNSLGKILELQIKEQ
ENMDRKAQITVYLQGIKDYIEK
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111
>DM_train1285
SLTGEESDTLRKIVLEECLPNQQQNQNPSPCAEVKPNAGYVVLKDLNGPLQYLLMPTYRINGTESPL
LTDPSTPNFFWLAWQARDFMSKKYGQPVPDRAVSLAINSRTGRTQNHFHIHISCIRPDVREQLDNN
LANISSRWLPLPGGLRGHEYLARRVTESELVQRSPFMMLAEEVPEAREHMGSYGLAMVRQSDNSFV
LLATQRNLLTLNRASAEEIQDHQCEILR
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001
>DM_train1287
MRDWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGQGADKPPVGVFIIERETGWLKVTQPL
DREAIAKYILYSHAVSSNGEAVEDPMEIVITVTDQNDNRPEFTQEVFEGSVAEGAVPGTSVMKVSATD
ADDDVNTYNAAIAYTIVSQDPELPHKNMFTVNRDTGVISVLTSGLDRESYPTYTLVVQAADLQGEGL
STTAKAVITVKDINDNAPVFNPS
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0011111111111
>DM_train1288
HGIRMTRISREMMKELLSVYFIMGSNNTKADPVTVVQKALKGGATLYQFREKGGDALTGEARIKFAE
KAQAACREAGVPFIVNDDVELALNLKADGIHIGQEDANAKEVRAAIGDMILGVAAHTMSEVKQAEE
DGADYVGLGPIYPTETKKDTRAVQGVSLIEAVRRQGISIPIVGIGGITIDNAAPVIQAGADGVSMISAISQ
AEDPESAARKFREEIQTYKTGR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001111111000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1289
LTGPLMLDTAPNAFDDQYEGCVNKMEEKAPLLLQEDFNMNAKLKVAWEEAKKRWNNIKPSRSYP

KGFNDFHGTALVAYTGSIAVDFNRAVREFKENPGQFHYKAFHYYLTRALQLLSNGDCHSVYRGTKTR
FHYTGAGSVRFGQFTSSSLSKKVAQSQEFFSDHGTLFIIKTCLGVYIKEFSFRPDQEEVLIPGYEVYQKV
RTQGYNEIFLDSPKRKKSNYNCLYS
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1290
WVPHELTENQKNRRFEVSSSLILRNHNEPFLDRIVTCDEKWILYDNRRRSAQWLDQEEAPKHFPKP
ILHPKKVMVTIWWSAAGLIHYSFLNPGETITSEKYAQEIDEMNQKLQRLQLALVNRKGPILLHDNAR
PHVAQPTLQKLNELGYEVLPHPPYSPDLLPTNYHVFKHLNNFLQGKRFHNQQDAENAFQEFVESQS
TDFYATGINQLISRWQKCVDCNGSYFD
11100000000000000000000000000000000000000011111111111111111111111111110
00000000000000000011111110000000000000000000011111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000001
>DM_train1291
GMAEDQTVLAIDIGGSHVKIGLSTDGEERKVESGKTMTGPEMVAAVTAMAKDMTYDVIAMGYPGP
VVHNKPLREPVNLGEGWVGYDYEGAFGRPVRIVNDALMQAIGSYNGGRMLFLGLGTGLGAAMIVE
NVAQPMEIAHLPYRKGKTYEHYVSEAYREKKGNAKWQKRVQDVVERLSAALEPDEVVIGGGNVERL
ENLPPKCRRGDNAMAFEGGFRLWKNADLIV
11110000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1292
MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQLRPSLITGIMKDSGNKPPGLLPRKGLYMA
NDLKLLRHHLQIPIHFPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRELWMRVWSRNEDIT
EPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQLKETTEAACRYGAFGLPITVAHVDGQTHMLFGS
DRMELLAHLLGEKWMGPIPPAVNARL
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000000011111
>DM_train1293
MLSVAGHRFASLATTPVLRMGLARCFSSVTGPFQCPPLPYVKNALEPHMSAETLTYHHDKHHQTYV
DTLNSIAAENSTIASKTLEQIIKTETGKPFNQAAQVYNHTFFFNNLAPNGGGEPTGKIAELITRDFGSF
EKFKEDFSAAAVGHFGSGWVWLIADDGKLKIVQGHDAGNPIRESKTPLMNIDVWEHAYYIDYRNAR
AQYVKNYWNLVNWDFVNDNVAKAGI
11111111111111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1294

MSSGAGSDATGAGGVHAAGSGDRAVAAAVERAKATAARNIPAFDDLPVPADTANLREGADLNNALL
ALLPLVGVWRGEGEGRGPDGDYRFGQQIVVSHDGGDYLNWESRSWRLTATGDYQEPGLREAGFWR
FVADPYDPSESQAIELLLAHSAGYVELFYGRPRTQSSWELVTDALARSRSGVLVGGAKRLYGIVEGGD
LAYVEERVDADGGLVPHLSARLSRFVG
11111111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111
10000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1295
KSAVTAQSILEKADEIRFPQDSFQVNVAIRTAAPDHAEDLYRYQVLSKGNENSIVMITEPASERGQAIL
MKGRDLWVFMPSVSQPIRLSLSQRLTGQVANGDIARANFTGDYHPQLLRNESIDDEDYYVLELTGID
RSVTYQKVLLWVNQSNFRPYKAEFYSVSGRLLKTSRYENFDNILGEMRPTRIIMEDALKSGEVSVLD
YSDMKLRDLPDKIFTKDYLKRLE
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000001111
>DM_train1296
MISHSELRKLFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKAALTERLAL
IQPSREQVQRLIAEQPPHLTPGIRELVSRLQERNVQVFLISGGFRSIVEHVASKLNIPATNVFANRLKFY
FNGEYAGFDETQPTAESGGKGKVIKLLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVK
DNAKWYITDFVELLGELEE
11110000000000000000000000000000000000000011111111111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000001111
>DM_train1298
SKRYFVTGTDTEVGKTVASCALLQAAKAAGYRTAGYKPVASGSEKTPEGLRNSDALALQRNSSLQLD
YATVNPYTFAEPTSPHIISAQEGRPIESLVMSAGLRALEQQADWVLVEGAGGWFTPLSDTFTFADWV
TQEQLPVILVVGVKLGCINHAMLTAQVIQHAGLTLAGWVANDVTPPGKRHAEYMTTLTRMIPAPLLG
EIPWLAENPENAATGKYINLALL
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111110
00000000000
>DM_train1299
MADPESPWSQIGRKIKLEGLSDVASISTKLQNTLIQYHSIEEDEWRVAKKAKDVTVWRKPSEEFNGY
LYKAQGVMDDVVNNVIDHIRPGPWRLDWDRLMTSLDVLEHFEENCCVMRYTTAGQLLNIISPREFV
DFSYTVGYEEGLLSCGVSVEWSETRPEFVRGYNHPCGWFCVPLKDSPSQSLLTGYIQTDLRGMIPQSA
VDTAMASTLANFYSDLRKGLRKA
11111111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000

>DM_train1300
GSRTVDLELELQIELLRETKRKYESVLQLGRALTAHLYSLLQTQHALGDAFADLSQKSPELQEEFGYN
AETQKLLCKNGETLLGAVNFFVSSINTLVTKTMEDTLMTVKQYEAARLEYDAYRTDLEELSLGPRDA
GTRGRLESAQATFQAHRDKYEKLRGDVAIKLKFLEENKIKVMHKQLLLFHNAVSAYFAGNQKQLEQT
LQQFNIKLRPPGAEKPSWLEEQ
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111111111
11111111100000000000000000000000000000000000000000000000000011111111111
11111111111
>DM_train1301
GDNDAIYYPVGDVDIERGGPALEVGEEDVLVARSFNEEDYVLDTIAQYPNDPTLGKLTFMIDLKNQQ
KDQNVADFNGVGKSKLTMSLGYKDGNYPSESQVPIYTSQDVTAKYAVKLRLKGELLVSGDEWMIDYV
YAQLASLFQPYPPANFPEVFMCKGGMKLGTFDSFRRTCTFDITYDRSDLSFSQLYFNLFINLAGQKRE
NRVRLRIDKESYFELYEQSEEM
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000111
>DM_train1303
SNAMSKRVLMVVTNHTTITDDHKTGLWLEEFAVPYLVFQEKGYDVKVASIQGGEVPLDPRSINEKDP
SWAEAEAALKHTARLSKDDAHGFDAIFLPGGHGTMFDFPDNETLQYVLQQFAEDGRIIAAVCHGPS
GLVNATYKDGTPIVKGKTVTSFTDEEEREVGLDVHMPFLLESTLRLRGANFVRGGKWTDFSVRDGN
LITGQNPQSSRSTAEKVVAALEERE
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train1304
AIAENSSKEDYKIQSFDLETQKLLKTALKDPGSVDLEKVSSVIVDQSLKDQVFSREAGRICYTIVQAEA
KQTNGSVFRRNLLNRLQQEFKAREETRKRSTQEWVCLVSFICNIFDYLKVNNMPMVALVHPVYDCL
FRLAQSDALKNEEEVDCLVLQLHRIGDQLEKMNVQLMDELFNLLRDGFLLQEDLSSMGRLLLLEILE
FRAGGWKLSDTAQKYYYSEVTD
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011111
>DM_train1305
SWNKKNEEKEDFGIIVILWKQVTVKEDGKVPLEPFLTAAKEVLRVVDAFGSGFRIVKNDIAGNIKKLY
RANQTVHAETLQELIIAENSPDGLATVALLWLKRAFQFIASFLRRLVVTDKSLEQCVTEAYNCTLRPC
HSAVIQKVFWGGVKLAPSRERFYRKLHPDLNIAKAKIEEFLIELHDPLCCIVQFFFQRELEDQCWGD
EVYQRKDSSEWLKVSCEQDSV
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00011111111
>DM_train1306
QPLGGESICSARAPAKYSITFTGKWSQTAFPKQYPLFRPPAQWSSLLGAAHSSDYSMWRKNQYVSNG
LRDFAERGEAWALMKEIEAAGEALQSVHEVFSAPAVPSGTGQTSAELEVQRRHSLVSFVVRIVPSPD
WFVGVDSLDLCDGDRWREQAALDLYPYDAGTDSGFTFSSPNFATIPQDTVTEITSSSPSHPANSFYYP
RLKALPPIARVTLLRLRQSPR
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000011111
>DM_train1307
APSCPQNVNISGGTFTLSHGWAPGSLLTYSCPQGLYPSPASRLCKSSGQWQTPGATRSLSKAVCKPVR
CPAPVSFENGIYTPRLGSYPVGGNVSFECEDGFILRGSPVRQCRPNGMWDGETAVCDNGAGHCPNPG
ISLGAVRTGFRFGHGDKVRYRCSSNLVLTGSSERECQGNGVWSGTEPICRQPYSYDFPEDVAPALGTS
FSHMLGATNPTQKTKESLGR
11000000000000000000000000000000000000000000000000000111111100000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111111111111
1111111111
>DM_train1308
GMNDLKRLPYEPVKGLLPRPAVGTSERVITLPEPDRTSGMPLMGTLWLRKSTREFDQQPLPLKQLS
ELLWAAAGVNRSLGGGRTAPSPYGETVIDVYVALPAGLYRYDPVHHCLELKRAADLRSMTGYQDFVG
MAPLDLVFVANHGRMQEMPPKLRETFSAAAAGAMAENAYLYCASAGLGAVVRGWLNRRQLAEHM
SLNEDEEPILSQTIGRAASHVTTTQA
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000111111
>DM_train1309
SNAMYKEGACLYRNPLRSKSDVKDWRMEGGGQISFDDHSLHLSHVQDEAHFVFWCPETFPDGIIVT
WDFSPIEQPGLCMLFFAAAGIRGEDLFDPSLRKRTGTYPEYHSGDINALHLSYFRRKYAEERAFRTCN
LRKSRGFHLAAMGADPLPSPDDADSPYRMKLIKDKGYVHFSINGLPILEWMDDGSTYGPVLTKGKIG
FRQMAPMKAVYRDFAVHQAVRR
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train1310
GEQQKRKIVLDPSGSMNIYLVLDGSDSIGASNFTGAKKSLVNLIEKVASYGVKPRYGLVTYATYPKIWV
KVSEADSSNADWVTKQLNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPEGWNRTRHVIIL
MTDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQHV
FKVKDMENLEDVFYQMIDESQSLS
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000111111111
1111111100
>DM_train1311
GMDRTLTHQPQEYAVSVSVGEVKLKGNLVIPNGATGIVLFAHGSGSSRYSPRNRYVAEVLQQAGLATL
LIDLLTQEEEEIDLRTRHLRFDIGLLASRLVGATDWLTHNPDTQHLKVGYFGASTGGGAALVAAAERP
ETVQAVVSRGGRPDLAPSALPHVKAPTLLIVGGYDLPVIAMNEDALEQLQTSKRLVIIPRASHLFEEP
GALTAVAQLASEWFMHYLR
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train1312
MAASITAITVENLEYPAVVTSPVTGKSYFLGGAGERGLTIEGNFIKFTAIGVYLEDIAVASLAAKWKGKS
SEELLETLDFYRDIISGPFEKLIRGSKIRELSGPEFSRKVMENCVAHLKSVGTYGDAEAEAMQKFAEAF
KPVNFPPGASVFYRQSPDGILGLSFSPDTSIPEKEAALIENKAVSSAVLETMIGEHAVSPDLKRCLAAR
LPALLNEGAFKIGN
11100000000000000000000000000000001111111100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000011111
>DM_train1313
GELFSNQIIWFVDDTNVYRVTIHKTFEGNLTTKPINGAIFIFNPRTGQLFLKIIHTSVWAGQKRLGQL
AKWKTAEEVAALIRSLPVEEQPKQIIVTRKGMLDPLEVHLLDFPNIVIKGSELQLPFQACLKVEKFGD
LILKATEPQMVLFNLYDDWLKTISSYTAFSRLILILRALHVNNDRAKVILKPDKTTITEPHHIWPTLT
DEEWIKVEVQLKDLILAD
11111000000000000000011111111111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000011
>DM_train1314
GMPIDTPTDASPADGSASDTVFFGIMSGLELGTFVPGQRLVETDLVAHFGVGRNSVREALQRLAAEGI
VDLQRHRGAVIRRLSLQETLDVLDVAERMTGLLARAATRGSGNQPQVQALRASVQALVAAEKAQDG
ETFSNARRHFYRTLLEMGDNRELRRLFPTIHMPIVHAQHRLASLRQMRLDDYRRIATAVLAGEPDA
AEAAGAAHVKNVRGAILDRQPA
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000111
>DM_train1315
MEIPPTHYAASRAASVAENCINYQQGTPHKLFLVQTVQQASKEDIPGRGHKYHLKFSVEEIIQKQVTV
NCTAEVLYPQMGQGSAPEVNFTFEGEIGKNPDEEDNTFYQSLMSLKRPLEAQDIPDNFGNVSPQMK
PVQHLAWVACGYVMWQNSTEDTWYKMLKIQTVKQVQRNDDFIELDYTILLHDIASQEIIPWQMQV
LWHPQYGTKVKHNSRLPKEGQAE
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000011111
>DM_train1316
METQDYAFQPGLTVGELLKSSQKDWQAAINHRFVKELFAGTIENKVLKDYLIQDYHFFDAFLSMLGA
CVAHADKLESKLRFAKQLGFLEADEDGYFQKAFKELKVAENDYLEVTLHPVTKAFQDLMYSAVASS
DYAHLLVMLVIAEGLYLDWGSKDLALPEVYIHSEWINLHRGPFFAEWVQFLVDELNRVGKNREDLTE
LQQRWNQAVALELAFFDIGYDV
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000010110000000000000000
000000011
>DM_train1320
SVLVLDDRIVDAATKDLYVNGFQEEIQYQNPTPENLQHMFHQGIEILDSARMINVTHLALWKPSSFK
LGNPVDFALDDNYDTFWQSDGGQPHQLDIMFSKRMDICVMAIFFSMIADESYAPSLVKVYAGHSPSD
ARFYKMLEVRNVNGWVALRFLDNREDDQLLKCQFIRLLFPVNHENGKDTHLRGIRLYVPSNEPHQ
DTHEWAQTLPETNNVFQDAILR
0000000000000000000000011111100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111100000000000000000000000000000001111111111111111111
11111111
>DM_train1321
GAMEKFKTLLYDIPIECMEVSEEIISYAKLQLGKKLNDSIYVSLTDHINFAIQRNQKGLDIKNALLWET
KRLYKDEFAIGKEALVMVKNKTGVSLPEDEAGFIALHIVNAELNEEMPNIINITKVMQEILSIVKYHFK
IEFNEESLHYYRFVTHLKFFAQRLFNGTHMESQDDFLLDTVKEKYHRAYECTKKIQTYIEREYEHKL
TSDELLYLTIHIERVV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
1100000000000000000000000011111111111110000000000000000000000000000000
00000000
>DM_train1322
SLNCFENNYYNLRHPKIEDLRDLIALETLCWSENLQVDNEEIYRRIFKIPQGQFILELEDKIVGAIYSQ
RIDNPQLLDNKTCTQVPLLHTESGVVVQLLAVNILPELQNQGLGDRLLEFMLQYCAQISGVEKVVAV
TLCRNYPDYSPMPMAEYIHQKNESGLLVDPLLRFHQIHGAKIEKLLPGYRPKDWENQTCGVLVSYDI
QHRQRFDGATVEKNRQTK
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000001111111
11111111
>DM_train1323
SLKNEELYHQSYDCVCVMFASIPDFKEFYTESDVNKEGLECLRLLNEIIADFDDLLSKPKFSGVEKIKT
IGSTYMAATGLSAIPSQEHAQEPERQYMHIGTMVEFAYALVGKLDAINKHSFNDFKLRVGINHGPVIA
GVIGAQKPQYDIWGNTVNVASRMDSTGVLDKIQVTEETSLILQTLGYTCTCRGIINVKGKGDLKTYFV
NTEMSRSLSQSNLAS

1111000000000000000000000000000000000000000000000000000000000000000000
0000000000111111111111000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111111111111000001111111
1111111
>DM_train1324
GVLPVEKCNLEDSACMTSAFQQALPTFVAGLPDHGVEVMDVLDLDDFAFDLSGLQFTLKEGKLKGL
KGAVIDNVKWDLKKKNIEVDFHLDATVKGHYTAGGRILILPITGDGQMKLKLKNIHIHLVVSYEMEK
DAEGVDHVIFKKYTVTFDVKDNAQFGLTNLFNGNKELSDTMLTFLNQNWKQVSEEFGKPVMEAAA
KKIFKNIKHFLAKVPIAEIANV
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train1325
GMDETPIFKIKKLTIAENDRSEYIRYAEKNMHDSIPAEEGTLLIGSGHDDAHGEDNYEIEVFRNKGAE
DLHIAGSHADDFVETVNKIATKQKVIDLHPEVITTKAQRALNSYADNFVMRLIKVEVKDADAEKFSH
AVKKEMTTSMASEPGMEIMMSGTNIDNPNEWYFIEVYANDEAYDIHVKTPHYKEYIEETDGMVKS
RDVKTLVRDTLATQGAIVLD
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000011111100000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train1328
MGSSHHHHHHMDRYEIKGVDVASYQGDIDWRELEKQNMKFAFIKATEGSAFVDKYFSKNWTNAN
KTSMRVGAYHFFSFDSKGETQAEQFIRNVPKYKQALPPVIDVEFYANKKDNPPKREDVTKELSVMIE
MLEKHYGKKVILYATQEAYDLYIKDAYPQCDIWIRSVLTKPSLSDERKWTFWQYTNRGKLSGYNGKE
KYIDLNVFYGNEEEFENYGMKD
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000011
>DM_train1329
MDREALLQAVKEARELAKPRNFTQSFEFIATLKEIDMRKPENRIKTEVVLPHGRGKEAKIAVIGTGD
LAKQAEELGLTVIRKEEIEELGKNKRKLRKIAKAHDFFIAQADLMPLIGRYMGVILGPRGKMPKPVPA
NANIKPLVERLKKTVVINTRDKPYFQVLVGNEKMTDEQIVDNIEAVLNVVAKKYEKGLYHIKDAYVKL
TMGPAVKVKKEKAKKK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001
111111
>DM_train1330
MRGSHHHHHHPEYDYIRDGNAIYERSFAIIRAEADLSRFSEEEADLAVRMVHACGSVEATRQFVFSP
DFVSSARAALKAGAPILCDAEMVAHGVTRARLPAGNEVICTLRDPRTPALAAEIGNTRSAAALKLWS
ERLAGSVVAIGNAPTALFFLLEMLRDGAPKPAAILGMPVGFVGAAESKDALAENSYGVPFAIVRGRLG

GSAMTAAALNSLARPGL
111111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train1331
KGHLTRLGLEFFDQPAVPLARAFLGQVLVRRLPNGTELRGRIVETEAYLGPEDEAAHSRGGRQTPRN
RGMFMKPGTLYVYIIYGMYFCMNISSQGDGACVLLRALEPLEGLETMRQLRSTLRKGTASRVLKDRE
LCSGPSKLCQALAINKSFDQRDLAQDEAVWLERGPLEPSEPAVVAAARVGVGHAGEWARKPLRFYV
RGSPWVSVVDRVAEQDTQA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001111111100000000000000
000000000000000000000000000111111000000000000000000000000000000000000000
001111
>DM_train1333
ETMSGPLHIGLIPTVGPYLLPHIIPMLHQTFPKLEMYLHEAQTHQLLAQLDSGKLDAVILALVKESEA
FIEVPLFDEPMLLAIYEDHPWANREAVPMADLAGEKLLMLEDGHSLRDQAMGFCFEAGADEDTHF
RATSLETLRNMVAAGSGITLLPALAVPPERKRDGVVYLPAIKPEPRRTIGLVYRPGSPLRSRYEQLAEA
IRARMDGHFDKVLKQAV
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111110000000000000
000000000000000000000000000000000000000000000000000000000000000000000001
111111
>DM_train1334
ASHHLRMHFKTLPAGESLGSLGLWVWGDVDQPSKDWPNGAITMTKAKKDDYGYYLDVPLAAKHR
QQVSYLINNKAGENLSKDQHISLLTPKMNEVWIDENYHAHAYRPLKEGYLRINYHNQSGHYDNLAV
WTFKDVKTPTTDWPNGLDLSHKGHYGAYVDVPLKEGANEIGFLILDKSKTGDAIKVQPKDYLFKEL
DNHTQVFVKDTDPKVYNNPYYID
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train1335
GSHMGIKQKSYQPSIIIAGPQNSGKTSLLTLLTTDSVRPTVVSQEPLSAADYDGSGVTLVDFPGHVKLR
YKLSDYLKTRAKFVKGLIFMVDSTVDPKKLTTTAEFLVDILSITESSCENGIDILIACNKSELFTARPPS
KIKDALESEIQKVIERRKKSLNEVERKINEEDYAENTLDVLQSTDGFKFANLEASVVAFEGSINKRKIS
QWREWIDEKL
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111111111100001110000000000000000000000000000000
00000
>DM_train1337
HTPVRTVMNTIQQLMMILNSASDQPSENLISYFNNCTVNPKESILKRVKDIGYIFKEKFAKAVGQGCV
EIGSQRYKLGVRLYYRVMESMLKSEEERLSIQNFSKLLNDNIFHMSLLACALEVVMATYSRSTSQNLD

SGTDLSFPWILNVLNLKAFDFYKVIESFIKAEGNLTREMIKHLERCEHRIMESLAWLSDSPLFDLIKQ
SKDREGPTDHLESA
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111000000000000000000000000011111111111111
00000000000000000000000000000000000000000000000000000000001111111111111
>DM_train1338
MKEVAKPLQERFFIPHEIKVMGRWSTEDVEVKDPSLKPYINLEPRLLPHTHGRHAKKHFGKANVHI
VERLINKVMRSGGSHYKVAGHFMRREHRSLNSKKVRAYEVVKEAFKIIEKRTGKNPIQVLVWAIENA
APREDTTSVMFGGIRYHVAVDISPLRRLDVALRNIALGASAKCYRTKMSFAEALAEEIILAANKDPKSY
AYSKKLEIERIAESSR
11111111111111111000000000000000000000000011111111111111111100000000
00000000011111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1339
QNPADSPHIGKVFFSTNQGDFVCSANIVASANQSTVATAGHCLHDGNGGQFARNFVFAPAYDYGESE
HGVWAAEELVTSAEWANRGDFEHDYAFAVLETKGGTTVQQQVGTASPIAFNQPRGQYYSAYGYPAA
APFNGQELHSCHGTATNDPMGSSTQGIPCNMTGGSSGGPWFLGNGTGGAQNSTNSYGYTFLPNVM
FGPYFGSGAQQNYNYASTTN
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1340
EKVKKIVLIGASGFVGSALLNEALNRGFEVTAVVRHPEKIKIENEHLKVKKADVSSLDEVCEVCKGAD
AVISAFNPGWNNPDIYDETIKVYLTIIDGVKKAGVNRFLMVGGAGSLFIAPGLRLMDSGEVPENILPG
VKALGEFYLNFLMKEKEIDWVFFSPAADMRPGVRTGRYRLGKDDMIVDIVGNSHISVEDYAAAMID
ELEHPKHHQERFTIGY
10000000000000000000000000000000000000000000000000000000000000000000
00000111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1341
MGSDKIHHHHHHMNIFEAIENRHSVRDFLERKMPERVKDDIENLLVKFITKKLDWKINLSSFPSYIY
AKAEKHFDELVEYGFQGEQIVLFLTAQGFGTCWMARSPHPDVPYIIVFGYPRTRNFTRKRRPITSFLE
NDLEELPPEIVKIVEMTILAPSALNRQPWKIKYTGGELCISSERPVDLGIALSHAYLTAREIFKREPVIQ
KRGEDTYCLILNP
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1342
SLRGGHAGTTYIFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIH

QGKIGVKFNVGTDDIAIEESNAIINDGKYHVVRFTRSGGNATLQVDSWPVIERYPAGNNDNERLAIAR
QRIPYRLGRVVDEWLLDKGRQLTIFNSQATIIIGGKEQGQPFQGQLSGLYYNGLKVLNMAAENDANIA
IVGNVRLVGEVPSS
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111111111111000
00000000000000000000000000000000000000000000000000000000000000000000
00011
>DM_train1343
MISLKRVAALLCVAGLGMSAANAQTCLTSSQTGTNNGFYYSFWKDSPGTVNFCLQSGGRYTSNWSGI
NNWVGGKGWQTGSRRNITYSGSFNSPGNGYLALYGWTTNPLVEYYVVDSWGSWRPPGSDGTFLGT
VNSDGGTYDIYRAQRVNAPSIIGNATFYQYWSVRQSKRVGGTITTGNHFDAWASVGLNLGTHNYQIM
ATEGYQSSGSSDITVSEGG
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001
>DM_train1344
STLEIAGLVRKNLVQFGVGEKNGSVRWVMNALGVKDDWLLVPSHAYKFEKDYEMMEFYFNRGGTY
YSISAGNVVIQSLDVGAQDVVLMKVPTIPKFRDITQHFIKKGDVPRALNRLATLVTTVNGTPMLISEG
PLKMEEKATYVHKKNDGTTVDLTVDQAWRGKGEGLPGMCGGALVSSNQSIQNAILGIHVAGGNSILV
AKLVTQEMFQNIDKKIE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
1111
>DM_train1345
SRLDKSKVINSALELLNEVGIEGLTTRKLAQKLGVEQPTLYWHVKNKRALLDALAVEILARHHDYSLP
AAGESWQSFLRNNAMSFRRALLRYRDGAKVHLGTRPDEKQYDTVETQLRFMTENGFSLRDGLYAIS
AVSHFTLGAVLEQQEHTAALTDRPAAPDENLPPLLREALQIMDSDDGEQAFLHGLESLIRGFEVQLTA
LLQIVGGDKLIIPFC
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000111111111111110000000000000000000000000000000000000011111111
1111
>DM_train1346
YVEFAQDFDFFYFVQQWPASYCDTRRSCCYPTTGKPDEDFSIHGLWPNYENGKWPQNCDRESSLDE
SEISDLISTMEKNWPSLACPSSDGVRFWSHEWLKHGTCSALGERAYFQAALDFRKKSNLLENLKNA
EITPRNGEHYTLESIKKAIEEGVGHSPYIECNVDTQGNHQIYQVYLCVDKTATDFIDCPIFPHGRGCGS
KIEFPPFSSESDHDEF
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111111
1111
>DM_train1348

MEQPYVYAYPQGSGPSGAPTPQAGGVVVDPKYCAPYPIDMAIVRKMMSLTDGNFVITDVNGNLLFK
VKEPVFGLHDKRVLLDGSGTPVVTLREKMVSMHDRWQVFRGGSTDQRDLLYTVKRSSMLQLKTKL
DVFLGHNKDEKRCDFRVKGSWLERSCVVYAGESDAIVAQMHRKHTVQSVFLGKDNFSVTVYPNVDY
AFIASLVVILDDVNREDRAA
11111111111111111111111000000000000000000000011111000000000000000000000
00000000000000000000001111110000000000000000000001111111000000000000010
00000000000000000000000000000000011111111000000000000000000000000000001
1111
>DM_train1349
GEINGPESVLVNTYQWIIRNWETVKIQWSQNPTMLYNKMEFEPFQSLVPKAIRGQYSGFVRTLFQQ
MRDVLGTFDTTQIIKLLPFAAAPPKQSRMQFSSLTVNVRGSGMRILVRGNSPVFNYNKTTKRLTILGK
DAGTLIEDPDESTSGVESAVLRGFLILGKEDRRYGPALSINELSNLAKGEKANVLIGQGDVVLVMKRK
RDSSILTDSQTATKR
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11111110000000000000000000000000000000000000000000000000011111111
1111
>DM_train1350
MPYSDAKAMLDEVAKIRELGVQRVTRIENLENAKKLWDNANSMLEKGNISGYLKAANELHKFMKE
KNLKEDDLRPELSDKTISPKGYAILQSLWGAASDYSRAAATLTESTVEPGLVSAVNKMSAFFMDCKLS
PNERATPDPDFKVGKSKILVGIMQFIKDVADPTSKIWMHNTKALMNHKIAAIQKLERSNNVNDETL
ESVLSSKGENLSEYLSYK
11111111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train1351
RSIIGGKHGDRDVRILYQVGDSEEDLPVCAPNAVCSKIDLYETPWIERQCRCPDGRTCPSSLGVEDGH
TIADKTRHYKMCQPVHKLPVCKHFRDYTWTLTTAAELNVTEQIVHCRCPRNSVTYLTKREPIGNDS
PGYRYLFACSPLTRLRCQRKQPCKLFTVRKRQEFLDEVNINSLCQCPKGHRCPSHHTQSGVIAGESFL
EDNIQTYSGYCMAND
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0001
>DM_train1353
EVTIEAVPPQVAEDNNVLLLVHNLPLALGAFAWYKGNTTAIDKEIARFVPNSNMNFTGQAYSGREIIY
SNGSLLFQMITMKDMGVYTLDMTDENYRRTQATVRFHVHQPVTQPFLQVTNTTVKELDSVTLTCL
SNDIGANIQWLFNSQSLQLTERMTLSQNNSILRIDPIKREDAGEYQCEISNPVSVRRSNSIKLDIIFDPS
RLVPRGSHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
111

>DM_train1354
VVKQDLSDNQYIQKKPNEITSNELLLPLPNDKLLGDPKAPILMIEYASLTCYHCSLFHRNVFPKIKEKY
IDTGKMLYIFRHFPLDYRGLKAAMLSHCYEKQEDYFNFNKAVFNSIDSWNYYNLSDLTLLQRIAALS
NLKQDAFNQCINDKKIMDKIVNDKSLAINKLGITAVPIFFIKLNDDKSYIEHNKVKHGGYKELKYFTN
VIDKLYGKAIVK
1111111111111111111000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train1355
GHMAMEKPVLWYIADPMCSWCWGFAPVIENIRQEYSAFLTVKIMPGGLRPGTNTPLLPEKRAQILH
HWHSVHITTGQPFTFENALPEGFIYDTEPACRGVVSVSLIEPEKVFPFFAAIQRAFYVGQEDVAQLAIL
KKLAVDLGIPESRFTPVFQSDEAKQRTLAGFQRVAQWGISGFPALVVESGTDRYLITTGYRPIEALRQL
LDTWLQQHGVGS
1111100000000000000000000000000000000000000011110000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
111
>DM_train1356
VSVGTHPTFENSPSGTVLTSPPDGSAVDRATDAARRVVDALLRTDRGNANLERVAEELNSIAGHLEE
HAPAVAERLIDMWNGEGVTRHDPVTGPENALAPPVVLEGLSDGSVRGTVTLTIPYQGPPGHVHGGV
SALLLDHVLGVANAWGGKAGMTAQLSTRYHRPTPLFEPLTLTGKLMSVDGRKITTAGDIRTADGQVC
VSVEGLFVDKTVPRPR
1111111111111100000000100000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000011111
111
>DM_train1357
MAKRILCFGDSLTWGWVPVEDGAPTERFAPDVRWTGVLAQQLGADFEVIEEGLSARTTNIDDPTDP
RLNGASYLPSCLATHLPLDLVIIMLGTNDTKAYFRRTPLDIALGMSVLVTQVLTSAGGVGTTYPAPKVL
VVSPPPLAPMPHPWFQLIFEGGEQKTTELARVYSALASFMKVPFFDAGSVISTDGVDGIHFTEANNR
DLGVALAEQVRSLL
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train1358
MDQENERNISRLWRAFRTVKEMVKDRGYFITQEEVELPLEDFKAKYCDSMGRPQRKMMSFQANP
TEESISKFPDMGSLWVEFCDEPSVGVKTMKTFVIHIQEKNFQTGIFVYQNNITPSAMKLVPSIPPATIE
TFNEAALVVNITHHELVPKHIRLSSDEKRELLKRYRLKESQLPRIQRADPVALYLGLKRGEVVKIIRKS
ETSGRYASYRICM
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00
>DM_train1359
MSSSEEVSWISWFCGLRGNEFFCEVDEDYIQDKFNLTGLNEQVPHYRQALDMILDLEPDEELEDNP
NQSDLIEQAAEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDIPGEAMVK
LYCPKCMDVYTPKSSRHHHTDGAYFGTGFPHMLFMVHPEYRPKRPANQFVPRLYGFKIHPMAYQLQ
LQAASNFKSPVKTIR
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111111
11
>DM_train1360
MKTVLLTGFDPFGGESINPAWEVAKSLHEKTIGEYKIISKQVPTVFHKSISVLKEYIEELAPEFIICIGQA
GGRPDITIERVAINIDDARIADNEGNQPVDVPVVEEGPAAYWSTLPMKAIVKKLQEEGIPASVSQTAG
TFVCNHLFYGLMHELEKHDTKMKGGFIHIPFLPEQASNYPGQPSMSLSTIRKGIELAVEVTTTVEVDI
VEVGGTTH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111
11
>DM_train1361
PQLEDFPALIKQASLDALFKCGKDAEALKEVFTNSNNVAGKKAIMEFAGLFRSALNATSDSPEAKTLL
MKVGAEYTAQIIKDGLKEKSAFGPWLPETKKAEAKLENLEKQLLDIIKNNTGGELSKLSTNLVMQEV
MPYIASCIEHNFGCTLDPLTRSNLTHLVDKAAAKAVEALDMCHQKLTQEQGTSVGREARHLEMQTLI
PLLLRNVFAQIPA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111110000000000000000000
00
>DM_train1362
GHMVPQTGRAARATRESGRQTRDALFTAATELFLEHGEGVPITQICAAAGAHPNQVTYYYGSKERLF
VEVACAAVLRAGKRAEDDAATAETVGDYTEKLVGSLLGPGAPSVELFTSAMLMTGRRSELRDLITDT
LRTLHSSGEVALIRTLMRTGWQLRAGIDVESKAFWSAIFGLVIQKTATGESFGYSLEEAVAVIFANLQI
PETVRNTSIDGS
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111110000000000000000000000001
11
>DM_train1363
GSGYREVEYWDQRYQGAADSAPYDWFGDFSSFRALLEPELRPEDRILVLGCGNSALSYELFLGGFPN
VTSVDYSSVVVAAMQACYAHVPQLRWETMDVRKLDFPSASFDVVLEKGTLDALLAGERDPWTVSSE
GVHTVDQVLSEVSRVLVPGGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGG
KLSVAQLALGAQILSP
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000
11
>DM_train1364
MEIKGESMQKSKFRRICVFCGSSQGKKSSYQDAAVDLGNELVSRNIDLVYGGGSIGLMGLVSQAVHDG
GRHVIGIIPKTLMPRELTGETVGEVRAVADMHQRKAEMAKHSDAFIALPGGYGTLEELLEVITWAQL
GIHDKPVGLLNVDGYYNSLLSFIDKAVEEGFISPTAREIIVSAPTAKELVKKLEEYAPCHERVATKLCW
EMERIGYSSEE
11111111100000000000000000000000000000000000000000000000000000000000000000
00000001111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111111111111
11
>DM_train1365
IQHATASLIQTNTDQELLVVDVTPSFASLWLVPNINDFHQRHPNIRVKILTGDGAVKNIHGESDLHVR
CLPLSTHYEYSQLLCEETLLLIGNTNLPKLSDNQAISHYPFIPQTTRPQLWEQFKQENDLECPITYHS
VGFEHFYLACEAVRMEKGLALLPDFMAQFSILRGDIQHIGNLKLHSGYGYYVVIPNFRLTSRKVALFH
DWLKDKLTHHT
11111111111111100000000000000000000000000000000000000001111100000000000
00000000000000000000000011111110000000000000000000000011111000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11
>DM_train1366
MNKDQSKIPQATAKRLPLYYRFLKNLHASGKQRVSSAELSDAVKVDSATIRRDFSYFGALGKKGYGYN
VDYLLSFFRKTLDQDEMTDVILIGVGNLGTAFLHYNFTKNNNTKISMAFDINESKIGTEVGGVPVYN
LDDLEQHVKDESVAILTVPAVAAQSITDRLVALGIKGILNFTPARLNVPEHIRIHHIDLAVELQSLVYFL
KHYSVLEEIE
11111111110000000000000000000000000000000000000000000000011111000000
00000000000011100000000000000000111111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
11
>DM_train1367
MAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDTYYDTPELSLMQADHWLRRREDSGWELK
CPGAAGVLGPHTEYKELTAEPTIVAQLCKVLRADGLGAGDVAAVLGPLGLQEVASFVTKRSAWKLVLL
GADEEEPQLRVDLDTADFGYAVGEVEALVHEEAEVPTALEKIHRLSSMLGVPAQETAPAKLIVYLQRF
RPQDYQRLLEVNSS
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011111
11
>DM_train1368
MGSDKIHHHHHHHMPKVEIAPSEIKIPDNVLKAKLGFGGAEEIPEEFRKTVNRAYEELLDAAKPVVL
WRDFEVDGSLSFDDMRLTGELATKHLSGSKIITVFLATLGKKVDEKIEEYFRKGEDLLAFFIDGIASE
MVEYALRKVDAELRMKRSNLEGSFRISPGYGDLPLSLNKKIAEIFKEEVDVNVIEDSYVLVPRKTITAF
VGWREKNEKQT
11111111110000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
1
>DM_train1369
HGTELPSPPSVWFEAEFFHHILHWTPIPQQSESTCYEVALLRYGIESWNSISQCSQTLSYDLTAVTLDL
YHSNGYRARVRAVDGSRHSQWTVTNTRFSVDEVTLTVGSVNLEIHNGFILGKIQLPRPKMAPAQDT
YESIFSHFREYEIAIRKVPGQFTFTHKKVKHEQFSLLTSGEVGEFCVQVKPSVASRSNKGMWSKEECIS
LTRQYFTVTN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000001111111
1
>DM_train1370
MLIAIEGVDGAGKRTLVEKLSGAFRAAGRSVATLAFPRYGQSVAADIAAEALHGEHGDLASSVYAMAT
LFALDRAGAVHTIQGLCRGYDVVILDRYVASNAAYSAARLHENAAGKAAAWVQRIEFARLGLPKPD
WQVLLAVSAELAGERSRGRAQRDPGRARDNYERDAELQQRTGAVYAELAAQGWGGRWLVVGADV
DPGRLAATLAPPDVPS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000111111111111111111000000000000000000000000000000000000000001111
1
>DM_train1371
SNAMAVQLLENWLLKEQEKIQTKYRHLNHISVVEPNILFIGDSIVEYYPLQELFGTSKTIVNRGIRGYQ
TGLLLENLDAHLYGGAVDKIFLLIGTNDIGKDVPVNEALNNLEAIIQSVARDYPLTEIKLLSILPVNERE
EYQQAVYIRSNEKIQNWNQAYQELASAYMQVEFVPVFDCLTDQAGQLKKEYTTDGLHLSIAGYQALS
KSLKDYLY
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train1372
GMSIVGNVENLINGVGELWNKYVKHEFILKMRDGSLPLDIFRYYLIQDGKYVEDMLRALLIASSKGPI
DKVTKILNLVFSSRDKGLETHGKLYSKLDISRDVIVKTGYNLINYAYTRHLYYYANLDWNKFLVAWTP
CMFGYSIVGDYVIDSPNEVYKTWASFYASTEYKKRIEAILYALDEVSITEDLLNIFINSVRFEIGFWDAS
LRKDPTVY
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train1373
GSHMKITYPLPPNLPEQLPLLTNCQLEDEAILENHLYQQIDLPNQEVRNLVFRDAVFDHLSLANGQF
ASFDCSNVRFEACDFSNVEWLSGSFHRVTFLRCNLTGTNFADSYLKDCLFEDCKADYASFRFANFNL
VHFNQTRLVESEFFEVTWKKLLLEACDLTESNWLNTSLKGLDFSQNTFERLTFSPNYLSGLKVTPEQ
AIYLASALGLVIT

11100000000111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train1374
NSNMGSDSGTMGSDSDEENVAARASPEPELQLRPYQMEVAQPALEGKNIIICLPTGSGKTRVAVYIAK
DHLDKKKKASEPGKVIVLVNKVLLVEQLFRKEFQPFLKKWYRVIGLSGDTQLKISFPEVVKSCDIIIST
AQILENSLLNLENGEDAGVQLSDFSLIIIDECHHTNKEAVYNNIMRHYLMQKLKNNRLKKENKPVIP
LPQILGLTAS
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011100000000000000000000000
00000111111000000000000000011111100000000000000000000000000000000000000
0
>DM_train1376
TTSAGESADPVTTTVENYGGETQIQRRQHTDVSFIMDRFVKVTPQNQINILDLMQVPSHTLVGALLR
ASTYYFSDLEIAVKHEGDLTWVPNGAPEKALDNTTNPTAYHKAPLTRLALPYTAPHRVLATVYNGEC
RYSRNAVPNLRGDLQVLAQKVARTLPTSFNYGAIKATRVTELLYRMKRAETYCPRPLLAIHPTEARH
KQKIVAPVKQTL
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011111111
11111111111111000000000000000000000000000000000000000000000000000000111
>DM_train1377
MEVEKEFITDEAKELLSKDKLIQQAYNEVKTSICSPIWPATSKTFTINNTEKNCNGVVPIKELCYTLLE
DTYNWYREKPLDILKLEKKKGGPIDVYKEFIENSELKRVGMEFETGNISSAHRSMNKLLLGLKHGEI
DLAIILMPIKQLAYYLTDRVTNFEELEPYFELTEGQPFIFIGFNAEAYNSNVPLIPKGSDGMSKRSIKK
WKDKVENK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111111111
>DM_train1378
ADGKSTRYWDCCKPSCGWAKKAPVNQPVFSCNANFQRLTDFDAKSGCEPGGVAYSCADQTPWAVN
DDFAFGFAATSIAGSNEAGWCCACYELTFTSGPVAGKKMVVQSTSTGGDLGSNHFDLNIPGGGVGIFD
GCTPQFGGLPGQRYGGISSRNECDRFPDALKPGCYWRFDWFKNADNPSFSFRQVQCPAELVARTGC
RRNDDGNFPAVQIP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111
>DM_train1379
MFTGIVQGTAKLVSIDEKPNFRTHVVELPDHMLDGLETGASVAHNGCCLTVTEINGNHVSFDLMKET
LRITNLGDLKVGDWVNVERAAKFSDEIGGHLMSGHIMTTAEVAKILTSENNRQIWFKVQDSQLMKY
ILYKGFIGIDGISLTVGEVTPTRFCVHLIPETLERTTLGKKKLGARVNIEIDPQTQAVVDTVERVLAARE
NAMNQPGTEA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111110000000000000011111111110000000000000000000000

000000000000000000000000000000000000000000000000000000000111111111111
>DM_train1380
MERKISRIHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQEADDMAMEKGKYVG
ELRKALLSGAGPADVYTFNFSKESAYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELIAYALDTIAEN
QAKNEHLQKENERLLRDWNDVQGRFEKAVSAKEALETDLYKRFILVLNEKKTKIRSLHNKLLNAAQ
EREKDIKQEG
000000000000000000000000000000000000000000000000000000000000000000000000
000001111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111111111111
>DM_train1381
VSSQKTSSLPKYTPKVNSSINNYIRKKNMKAPRIEEDYTSYFPKYGYRNGVGRPEGIVVHDTANDNST
IDGEIAFMKRNYTNAFVHAFVDGNRIIETAPTDYLSWGAGPYGNQRFINVEIVHTHDYDSFARSMNN
YADYAATQLQYYNLKPDSAENDGRGTVWTHAAISNFLGGTDHADPHQYLRSHNYSYAELYDLIYEKY
LIKTKQVAPWG
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1382
MGSDKIHHHHHHHMTPVLSLDMEDPIRFIDENGSFEVVKVGHNLAIHGKKIFDELAKRNLKIILDLKF
CDIPSTVERSIKSWDHPAIIGFTVHSCAGYESVERALSATDKHVFVVVKLTSMEGSLEDYMDRIEKLN
KLGCDFVLPGPWAKALREKIKGKILVPGIRMEVKADDQKDVVTLEEMKGIANFAVLGREIYLSENPR
EKIKRIKEMRL
111111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001111111110000000000000000000000000000000000000111
>DM_train1384
GSECSTQLDIVIVLDGSNSIYPWDSVTAFLNDLLKRMDIGPKQTQVGIVQYGENVTHEFNLNKYSSTE
EVLVAAKKIVQRGGRQTMTALGTDTARKEAFTEARGARRGVKKVMVIVTDGESHDNHRLKKVIQDC
EDENIQRFSIAILGSYNRGNLSTEKFVEEIKSIASEPTEKHFFNVSDELALVTIVKTLGERIFALEATAVD
SSGRIVTD
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111111111111
>DM_train1385
KLNMLKPDSDLCLKFAMLCTLNDKCDRLRKAYGEACSGPHCQRHVCLRQLLTFFEKAAEPHAQGLL
LCPCAPNDRGCGERRRNTIAPNCALPPVAPNCLELRRLCFSDPLCRSRLVDFQTHCHPMDILGTCAT
EQSRCLRAYLGLIGTAMTPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHNPCLTEAIAAKMR
FHSQLFSQDWPHP
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train1386
SLIGFLSDRQGFEKQYHDIDLSSFGIREGISEIIASTGFEHPNAAPIGIVMKGERPFVRLFKGSHTWENV
LKEKCLASNVVYDPILFVRSTFSDLVPSEFEYVDAGEFKFPVLKEAIAWVVFECINLRNTDQSLVADLV

PLNAGFNERNIKELPVPNRGFNAVLEATVHATRYQLTGEEKYLELIRHYESLASKCGGDAEKKAMKLI
YEALGL
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000011000000000000000000000000000000000000110000000000
00000000000000000000000000000000011111100000000000000000000000000011
>DM_train1387
ASMTTPCITILSGHFPKETIYARKTKELVEEYCSIHGYNFYYEESEPLETEEHALHFRRSWIIQQAAEK
FPSTEWFLWLDSDVYVNPKNKNKPITSFIDLSDPNILYHTFHEAPWGSYPINTGVKFVHKDALEIEKI
VWSLRNEAPWNTFPYEQKTVYEYVFPRIPGRYIVHDPYTLNCIVKAYPEHVKDALFVHMCGTSRAE
RDEHMEMVAT
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train1388
GMSSDVQKGDNLETPGARDLLLQTASNIMREGDVVDISLSELSLRSGLNSALVKYYFGNKAGLLKALL
DRDMENIVKSVDALLAKDDMSPEAKLRRHISKCIDTYYDYPYLNRLLMRLVRDSDEAEAKRIADQY
LLPLHRAYNRFIGEGVKAGVFRPINPQLFYFTVTGAADRFFSARLVLKHCFDQDTLTEQLRDSYREH
TVDFIMAGILAH
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train1390
KGSVYTAQSDVQVPENESIKLTCTYSGFSSPRVEWKFVQGSTTALVCYNSQITAPYADRVTFSSSGITFS
SVTRKDNGEYTCMVSEEGGQNYGEVSIHLTVLVPPSKPTISVPSSVTIGNRAVLTCSEHDGSPPSEYSW
FKDGISMLTADAKKTRAFMNSSFTIDPKSGDLIFDPVTAFDSGEYYCQAQNGYGTAMRSEAAHMDAV
ELNVGG
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111000000000000000000000000000000000000000000000000000000000
>DM_train1391
MKPPSSIQTSEFDSSDEEPIEDEQTPIHISWLSLSRVNCSQFLGLCALPGCKFKDVRRNVQKDTEELK
SCGIQDIFVFCTRGELSKYRVPNLLDLYQQCGIITHHHPIADGGTPDIASCCEIMEELTTCLKNYRKTLI
HSYGGLGRSCLVAACLLLYLSDTISPEQAIDSLRDLRGSGAIQTIKQYNYLHEFRDKLAAHLSSRDSQSR
SVSR
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111111
>DM_train1392
MSGTEEAILGGRDSHPAAGGGSVLCFGQCQYTAEEYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEG
HRVINLANEMFGYNGWAHSITQQNVDFVDLNNGKFYVGVCAFVRVQLKDGSYHEDVGYGVSEGLKS
KALSLEKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVE
EARYNSCRPNM
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000001111
>DM_train1393
MVGGGGVKFIEMDIRDKEAYELAKEWFDEVVVSIKFNEEVDKEKLREARKEYGKVAILLSNPKPSLV
RDTVQKFKSYLIYVESNDLRVIRYSIEKGVDAIISPWVNRKDPGIDHVLAKLMVKKNVALGFSLRPLLY
SNPYERANLLRFMMKAWKLVEKYKVRRFLTSSAQEKWDVRYPRDLISLGVVIGMEIPQAKASISMY
PEIILKRLKY
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000001111
>DM_train1394
SMQELQGLDYCKPTRLDLLLDMPPVSYDVQLLHSWNNNDRSLNVFVKEDDKLIFHRHPVAQSTDAI
RGKVGYTRGLHVWQITWAMRQRGTHAVVGVATADAPLHSVGYTTLVGNNHESWGWDLGRNRLYH
DGKNQPSKTYPAFLEPDETFIVPDSFLVALDMDDGTLSFIVDGQYMGVAFRGLKGKKLYPVVSAVWG
HCEIRMRYLNGLDPE
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train1395
GMASSGTEHDAMRARLVDVAQAIVEERGGAGLTLSELAARAGISQANLSRYFETREDLMEAIADYWF
HPMVEIMEDVLASDLPPRRKMYEFFARRFVVMRRKWEADPVKLQTYIEVGNDYFEQVRSYIDLAD
HYLGEIIGEAMSDGAFSGLEVDETISLVNQMCAPYCALNTMTTFMERLSEDKLARIVDAVFDGLSAQ
DRGARSLTGLRAA
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000001111111
>DM_train1396
ESNQQIADFDKEKATLDEADIDERMKLAQAFNDSLNNVVSGDPWSEEMKKKGRAEYARMLEIHER
MGHVEIPVIDVDLPVYAGTAEEVLQQGAGHLEGTSLPIGGNSTHAVITAHTGLPTAKMFTDLTKLKVG
DKFYVHNIKEVMAYQVDQVKVIEPTNFDDLLIVPGHDYVTLLTCTPYMINTHRLLVRGHRIPYVAEV
EEEFIAANKLSH
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111111111111
>DM_train1397
MMTTLTRQDLNFGQVVADVLCEFLEVAVHLILYVREVYPVGIFQKRKKYNVPVQMSCHPELNQYIQD
TLHCVKPLLEKNDVEKVVVVILDKEHRPVEKFVFEITQPPLLSISSDSLLSHVEQLLAAFILKISVCDA
VLDHNPPGCTFTVLVHTREAATRNMEKIQVIKDFPWILADEQDVHMHDPRLIPLKTMTSDILKMQL
YVEERAHKGS
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011111100000000000000000000000000000
000000000001111111111111100000000000000000000000000000000000000000
>DM_train1398
MKGILGTKIGMTQIWKNDRAIPVTVVLAGPCPIVQRKTAQTDGYEAVQIGYAPKAERKVNKPMQGH
FAKAGVAPTRILREFRGFAPDGDSVNVDIFAEGEKIDATGTSKGKGTQGVMKRWNFAGGPASHGSKK

WHRRPGSIGQRKTPGRVYKGKRMAGHMGMERVTVQNLEVVEIRAGENLILVKGAIPGANGGLVVLR
SAAKASAAKGGK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>DM_train1399
NPSPHQVYNVTWTITNLVTGTKANATSMLGTLTDAFPTMYFDLCDIIGNTWNPSDQEPFPGYGCDQ
PMRRWQQRNTPFYVCPGHANRKQCGGPQDGFCAVWGCETTGETYWRPTSSWDYITVKKGVTQGI
YQCSGGGWCGPCYDKAVHSSTTGASEGGRCNPLILQFTQKGRQTSWDGPKSWGLRLYRSGYDPIALF
SVSRQVMTITPPQA
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>DM_train1400
MGACGSKGSTSDKGLASDKDGKKAKDRKEAWERIRQAIPREKTAEAKQRRIELFKKFDKNETGKLC
YDEVYSGCLEVLKLDEFTSRVRDITKRAFDKSRTLGSKLENKGSEDFVEFLEFRLMLCYIYDFFELTV
MFDEIDASGNMLVDEEEFKRAVPKLEAWGAKVEDPAALFKELDKNGTGSVTFDEFAAWASAVKLD
ADGDPDNVPESA
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>DM_train1401
PEDPSDLLQHVKFQSSNFENILTWDSGPEGTPDTVYSIEYKTYGERDWVAKKGCQRITRKSCNLTVE
TGNLTELYYARVTAVSAGGRSATKMTDRFSSLQHTTLKPPDVTCISKVRSIQMIVHPTPTPIRAGDGH
RLTLEDIFHDLFYHLELQVNRTYQMHLGGKQREYEFFGLTPDTEFLGTIMILVPTWAKESAPYMCRV
KTLPDRTWT
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011110000000
00000000000011110000000000000000000000000000000000000000000000
>DM_train1402
ALADGKILHNQNVNSWGPITVTPTTDGGETRFDGQIIVQMENDPVVAKAAANLAGKHAESSVVVQL
DSDGNYRVVYGDPSKLDGKLRWQLVGHGRDHSETNNTRLSGYSADELAVKLAKFQQSFNQAENIN
NKPDHISIVGSSLVSDDKQKGFGHQFINAMDANGLRVDVSVRSSELAVDEAGRKHTKDANGDWVQK
AENNKVSLSWDAQG
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>DM_train1403
GAMQGEVSKAASADSTTEGTPADGFTVLSTKSLFLGQKLQVVQADIASIDSDAVVHPTNTDFYIGGEV
GNTLEKKGGKEFVEAVLELRKKNGPLEVAGAAVSAGHGLPAKFVIHCNSPVWGADKCEELLEKTVK
NCLALADDKKLKSIAFPSIGSGRNGFPKQTAAQLILKAISSYFVSTMSSSIKTVYFVLFDSESIGIYVQE
MAKLDAN
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000111
>DM_train1404
APISFSHAKNEAVKIYRDHPVSFYCGCEIRWQGKKGIPDLESCGYQVRKNENRASRIEWEHVVPAWQ
FGHQLQCWQQGGRKNCTRTSPEFNQMEADLHNLTPAIGEVNGNRSNFSFSQWNGIDGVTYGQCEM
QVNFKERTAMPPERARGAIARTYLYMSEQYGLRLSKAQNQLMQAWNNQYPVSEWECVRDQKIEKV
QGNSNRFVREQCPN
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1405
MFKKLLHSLVAGLTFVAAVAAVPAHAQEADAQATVKTAVDDVLATIKGDPDLRGGNLQKVFQLVDQK
IVPRADFKRTTQIAMGRFWSQATPEQQQQIQDGFKSLLIRTYAGALANVRNQTVAYKPFRAAADDT
DVVVRSTVNNNGEPVALDYRVEKSPNGWKVYDINISGLWLSETYKNQFADVISKRGGVGGLVQFLDE
RNAQLAKGPAK
11111111111111111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
>DM_train1406
MIMSEMITRQQVTSGETIHVRTDPTACIGSHPNCRMFIDSLTIAGEKLDKNIVAIDGGEDVTKADSAT
AAASVIRMSITPGSINPTISITLGVLIKSNVRTKIEEKVSSILQASATDMKIKLGNSNKKQEYKTDEAWG
IMIDLSNLELYPISAKAFSISIEPTELMGVSKDGMRYHIISIDGLTTSQGSLPVCCAASTDKGVAKIGYIA
AA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train1408
QSLQVKPLQVEPPEPVVAVALGASRQLTCRLACADRGASVQWRGLDTSLGAVQSDTGRSVLTVRNAS
LSAAGTRVCVGSCGGRTFQHTVQLLVYAFPNQLTVSPAALVPGDPEVACTAHKVTPVDPNALSFSLLV
GGQELEGAQALGPEVQEEEEEPQGDEDVLFRVTERWRLPPLGTPVPPALYCQATMRLPGLELSHRQ
AIPVLIEGR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1409
MVDFKMTKEGLVLLIKDYQNLEEVLNAISARITQMGGFFAKGDRISLMIENHNKHSQDIPRIVSHLR
NLGLEVSQILVGSTVEGKENDLKVQSRTTVESTGKVIKRNIRSGQTVVHSGDVIVFGNVNKGAEILAG
GSVVVFGKAQGNIRAGLNEGGQAVVAALDLQTSLIQIAGFITHSKGEENVPSIAHVKGNRIVIEPFDKV
SFERSE
00000000000000000000000000000000000000000000000000000000000000000000
00000001111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
>DM_train1410
IGATEQSYVASAVTPLRLNSSTKVLDMLIDSSTLEINSSGQLTVRSTSPNLRYPIADVSGGIGMSPNYRF
RQSMWIGIVSYSGSGLNWRVQVNSDIFIVDDYIHICLPAFDGFSIADGGDLSLNFVTGLLPPLLTGDTE

PAFHNDVVTYGAQTVAIGLSSGGAPQYMSKNLWVEQWQDGVLRLRVEGGGSITHSNSKWPAMTVS
YPRSFT
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1411
MTNLNYQQTHFVMSAPDIRHLPSDTGIEVAFAGRSNAGKSSALNTLTNQKSLARTSKTPGRTQLINL
FEVADGKRLVDLPGYGYAEVPEEMKRKWQRALGEYLEKRQSLQGLVVLMDIRHPLKDLDQQMIEW
AVDSNIAVLVLLTKADKLASGARKAQLNMVREAVLAFNGDVQVETFSSLKKQGVDKLRQKLDTWFS
EMQPVEETQDGE
11111111111000000000000000000000000000000000011111111111111000000000
00000000001111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111111
>DM_train1412
TVPITSAKAAELPPGNYRLVVFELENFQGRRAEFSGECSNLADRGFDRVRSIIVSAGPWVAFEQSNFR
GEMFILEKGEYPRWNTWSSSYRSDRLMSFRPIKMDAQEHKISLFEGANFKGNTIEIQGDDAPSLWVY
GFSDRVGSVKVSSGTWVGYQYPGYRGYQYLLEPGDFRHWNEWGAFQPQMQSLRRLRDKQWHLEG
SFPVLATEPPK
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000111111111111111
>DM_train1414
GMEGSLSRGVEIMKLRELVARSRSIRRFDEHVAVNDATLRDLVELVCYTPSAANRQLLRFLPVTGAD
MSDKVFPCLKWAGYLEDWPGPEPGERPAAALVMLCRNEDLPGAACDSGIAAQTIMLGAAEKELGG
CIVAAIDRERLMASLGIPDAWTVLLVIALGKPAETVVIDQIKPGDDIRYWRDKHGIHHVPKRQVDELL
VTAEQLRERG
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train1415
SISPAQIAEALQGRGWDAEIVTDASMAGQLVDVRPEGILKCVDGRGSDNTRMGGPKMPGGIYAIAHN
RGVTSIEGLKQITKEVASKGHLPSVHGDHSSDMLGCGFFKLWVTGRFDDMGYPRPQFDADQGANAV
KDAGGIIEMHHGSHTEKVVYINLLANKTLEPNENDQRFIVDGWAADKFGLDVPKFLIAAAATVEML
GGPKNAKIVVP
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1416
MENGKRDRQDMEVNTTPRKPRVLLAASGSVAAIKFGNLCHCFTEWAEVRAVVTKSSLHFLDKLSLP
QEVTLYTDEDEWSSWNKIGDPVLHIELRRWADVLVIAPLSANTLGKIAGGLCDNLLTCIIRAWDYTK
PLFVAPAMNTLMWNNPFTERHLLSLDELGITLIPPIKKRLASGDYGNGAMAEPSLIYSTVRLFWESQ
AHQQTGGTS
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000011111111100000000000000000000111111111
>DM_train1418
MHTDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIP
PTFDGEEEPSQGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDEAESDIFSIRE
VSFQSTGESEWKDTNYTLNTDSLDWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLED
LKSFVKSQ
000000000000000000000000000000000000000000000000000000000000000111111
111111111111111111100000000000000000000000011111111111100000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1419
GSGAPPTDLQKMVMGNTKPVELNLDGKTVAICCATGVFGTAYLVPRHLFAEKYDKIMLDGRAMTDS
DYRVFEFEIKVKGQDMLSDAALMVLHRGNKVRDITKHFRDTARMKKGTPVVGVVNNADVGRLIFSG
EALTYKDIVVSMDGDTMPGLFAYKAATRAGYAGGAVLAKDGADTFIVGTHSAGGNGVGYCSCVSRSM
LQKMKAHVEH
111111100000000000000000000000000000000000000000000000000000000000000
000111111110000000000000000000000000000000000000000000000000000000001
111111000000000000000000000000000000000000000000000000000000000000111
>DM_train1420
GMAVECIKDKVTRYPERASYSDEDLVAMLDRNFTCTVSFIDGGIPYAIPMMLASEGKTIYLHGSMKSR
IYGILKTGQLIAISLLEINGIVLAKEIKNNSINYVSALIFGRPYEIDDTEKKIEVFRLLTEKLVKGRWDNSI
KPSYEDLNGVFVFAVKPETFSMKARTGPPHDTSTDDIWSGVLPIQHTISEAGENAPEYVKSLYGKRIF
I
111111111111111111000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1422
DISEPPLHDFYCSRLLDLVFLLDGSSRLSEAEFEVLKAFVVDMMEQLRISQKWVRVAVVEYHDGSHA
YIGLKDRKRPSELRRIASQVKYAGSQVASTSEVLKYTLFQIFSKIDRPEASRIALLLMASQEPQRMSRN
FVRYVQGLKKKKVIVIPVGIGPHANLKQIRLIEKQAPENKAFVLSSVDELEQQRDEIVSYLCDLAPEAP
PPT
111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1423
MTKPYVRLDKNDAAVLLVDHQAGLLSLVRDIEPDKFKNNVLALGDLAKYFNLPTILTTSAETGPNGP
LVPELKAQFPDAPYIARPGNINAWDNEDFVKAVKATGKKQLIIAGVVTEVCVAFPALSAIEEGFDVFV
VTDASGTFNEITRHSAWDRMSQAGAQLMTWFGVACELHRDWRNDIAGLATLFSNHIPDYRNLMTS
YDTLTKQK
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000111
>DM_train1424
VIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLS
IVILALRPSDEGTYECVVLKYEKDAFKREHLAEVTLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEP

HLSWLENGEELNAINTTVSQDPETELYAVSSKLDFNMTTNHSFMCLIKYGHLRVNQTFNWNTTKQ
EHFPDN
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000111111111
>DM_train1426
GMVEQRNRGRPAVPDAVVRESIVGAAQRLLSSGGAAAMTMEGVASEAGIAKKTLYRFASGRADLIGL
LVESWIAPIFPGFEADPQDAAAALERIVYDIAQAVLSREAVSLFRMLASDADLRNRFLPAYNANGIER
SRRELARWLDQQASAGRLPLPIPAERVADLLLSAVIAEPLRQITLGLREPLPAWDIAPRVADAVRLIAP
GRER
11111111111110000000000000000000000000000000000000000000000000000000000000000000
00000001100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train1427
LKNEETEKKLNLNQQRLGTVVAVLKSVNAKKVIDLGCGEGNLLSLLLKDKSFEQITGVDVSYSVLERA
KDRLKIDRLPEMQRKRISLFQSSLVYRDKRFSGYDAATVIEVIEHLDENRLQAFEKVLFEFTRPQTVI
VSTPNKEYNFHYGNLFEGNLRHRDHRFEWTRKEFQTWAVKVAEKYGYSVRFLQIGEIDDEFGSPTQ
MGVFTL
11111111110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000111110000000000000000000000000000000000000000000000000000000000000000
>DM_train1428
MSLEKEYEYLVPPDDYLAAGVHIGTQIKTGDMKKFIFKVRQDGLYVLDIRKLDERIRVAAKFLSRYEP
SKILLVAARQYAHKPVQMFSKVVGSDYIVGRFIPGTLTNPMLSEYREPEVVFVNDPAIDKQAVSEATAV
GIPVVALCDSNNSSADVDLVIPTNNKGRRALAIVYWLLAREIAKIRGQDFTYSIEDFEAELEGGSHHH
HHH
11111000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000001111111111
>DM_train1429
MGSDKIHHHHHHMKKLTVYLATTNPHKVEEIKMIAPEWMEILPSPEKIEVVEDGETFLENSVKKAV
VYGKKLKHPVMADDSGLVIYSLGGFPGVMSARFMEEHSYKEKMRTILKMLEGKDRRAAFVCSATFF
DPVENTLISVEDRVEGRIANEIRGTGGFGYDPFFIPDGYDKTFGEIPHLKEKISHRSKAFRKLFSVLEKI
LESENR
11111111111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train1430
MGSDKIHHHHHHMNVINETANVLKLETGSVTSAKGFSAVGIHTGVKRKRKDLGAIVCEVPASSAAVY
TLNKVQAAPLKVTQESIAVEGKLQAMIVNSGIANACTGKRGLDDAYTMRAVGAETFHIPEHYVAVTS
TGVIGEFLPMDVITNGIRQLKPEATIEGAHAFNEAILTTDTVEKHTCYQTIVNGKTVTVGGVAKGSGM
IHPNMA
11111111111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000
>DM_train1431
KSVLEDNLPFLEFPGSIVYSYEASDCSFLSEDISMRLSDGDVVGFDMEWPPIYKPGKRSRVAVIQLCVS
ESKCYLFHISSMSVFPQGLKMLLENKSIKKAGVGIEGDQWKLLRDFDVKLESFVELTDVANEKLKCA
ETWSLNGLVKHVLGKQLLKDKSIRCSNWSNFPLTEDQKLYAATDAYAGLIIYQKLGNLGDTVQVFALN
KAEE
111111000000000000000000000000000000000000000000011100000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001111111111111
>DM_train1432
GMSESPTAGRASLAPLREFITGLSALLDEQPGEARILREGGALLARLVARDDWLPDAFAQPHPEYYQ
QMLLHCDSAERFSIVSFVWGPGQRTPIHDHTVWGLIGMLRGAEYSQPFVLDGSGRPVLHGEPTRLE
PGHVEAVSPTVGDIHRVHNAYDDRVSISIHVYGANIGGVRRSVYTEAGERKPFISGYSNPYLPNPWDR
SKDSAAS
111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111
>DM_train1433
MTERLNEQNNESYRYLRSVGNQWQFNVEDLHPKMLSRLYKRFDTFDLDSDGKMEMDEVLYWPDR
MRQLVNATDEQVEKMRDAVRVFFLHKGVEPVNGLLREDWVEANRVFAEAERERERRGEPSLIALLS
NSYYDVLDDDGDGTVDVDELKTMMKAFDVPQEAAYTFFEKADTDKSGKLERTELVHLFRKFWME
PYDPQWDGVYAYKY
110000000000000000000000011111111100000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000011111111111111
>DM_train1434
LERTIEERVNILFDFVKKKKEEGVIDSSDKEIVAEAERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEVIISWSEKASKKYVSKEL
AKEIRVKAEPFIKWLKEAEEESSGGEEEDEDENIEVVYSKLESVPKVETVKSDNKDDDIDIDAILEHH
HHHH
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011111111111111111111111111111
>DM_train1435
MTEKKIDFKKEEKKFYAPKRKPERIFVPEMNFLMVDGKGDPDGEEYQKAVQSLYAIAYTIKMSKMGE
TRLDGYSDFVVPPLEGFWWSEGKFDLKDRDAWLWTSILRQPDFVTEEVLEWAKEVARKKKPDVD
TSRVKLVRFEEGECVQMMHVGPFSEEVHTVAEMHQFMETEGLRNDTGAIRKHHEIYLSDPRKANP
EKMKTILRLPVS
111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1436
MLNKLSLLLKDAGISLTDHQKNQLIAYVNMLHKWNKAYNLTSVRDPNEMLVRHILDSIVVAPYLQG
ERFIDVGTGPGLPGIPLSIVRPEAHFTLLDSLGKRVRFLRQVQHELKLENIEPVQSRVEEFPSEPPFDG

VISRAFASLNDMVSWCHHLPGEQGRFYALKGQMPEDEIALLPEEYQVESVVKLQVPALDGERHLVVI
KANKI
00000000000000000000000000000000001111111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1437
FKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLSEAHTCIPENNGGAGCVCHLLMDD
VVSADNYTLDLWAGQQLLWKGSFKPSEHVKPRAPGNLTVHTNVSDTLLLTWSNPYPPDNYLYNHL
TYAVNIWSENDPADFRIYNVTYLEPSLRIAASTLKSGISYRARVRAWAQAYNTTWSEWSPSTKWHN
SYREPFEQH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111000000000000000000000000000000
00000000000000000000111110000000000000000000000000001111111111
>DM_train1438
MGSDKIHHHHHHHKGKIQEADNAAKLSAIKFVLKDPLTGDYLVDEKEIEEIVKKTGIETVVLKEYKEG
VVLGPLYEFVTKDGRNAYVLSGYAPGFGGNVTVVACFIKTEDGFMLNSVRVIDYSQETPGLGAKIGEE
SIQRRFFPVPPEGLKNGLRVDKDAGLPKGSPEELKKQGIVKVSDVMTGATITPRAVVTALNLMYRYL
EEVSK
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000001000000000000000000000000001111111111100000000
00000000000000000000000000000000000001111100000000000000000000
>DM_train1439
GDLIVSMRILGKKRTKTWHKGTLIAIQTVGPGKKYKVKFDNKGKSLLSGNHIAYDYHPPADKLYVGS
RVVAKYKDGNQVWLYAGIVAETPNVKNKLRFLIFFDDGYASYVTQSELYPICRPLKKTWEDIEDISCR
DFIEEYVTAYPNRPMVLLKSGQLIKTEWEGTWWKSRVEEVDGSLVRILFLDDKRCEWIYRGSTRLEP
MFSMK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111
>DM_train1440
GQEHALENYWPVMGVEFSEDMLDFPALFGREAPVTLEIGFGMGASLVAMAKDRPEQDFLGIEVHSP
GVGACLASAHEEGLSNLRVMCHDAVEVLHKMIPDNSLRMVQLFFPDPWHKARHNKRRIVQVPFAE
LVKSKLQLGGVFHMATDWEPYAEHMLEVMSSIDGYKNLSESNDYVPRPASRPVTKFEQRGHRLGHG
VWDLMFERVK
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1441
MTKKSTKSEAASKTKKSGVPETGAQGVRAGGADHADAAHLGTVNNALVNHHYLEEKEFQTVAETL
QRNLATTISLYLKFKKYHWDIRGRFFRDLHLAYDEFIAEIFPSIDEQAERLVALGGSPLAAPADLARYS
TVQVPQETVRDARTQVADLVQDLSRVGKGYRDDSQACDEANDPVTADMYNGYAATIDKIRWMLQAI
MDDERLD
11111111111111111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1442
MTDHVREADDANIDDLLGDLGGTARAERAKLVEWLLEQGITPDEIRATNPPLLLATRHLVGDDGTY
VSAREISENYGVDLELLQRVQRAVGLARVDDPDAVVHMRADGEAAARAQRFVELGLNPDQVVLVVR
VLAEGLSHAAEAMRYTALEAIMRPGATELDIAKGSQALVSQIVPLLGPMIQDMLFMQLRHMMETEA
VNAGERAAG
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000011111111111111
>DM_train1443
MAPAKSPRAWQRMLSGRRLDLLDPSPLDVEIADIAHGLARVARWNGQTRGDHAFTVAQHCLIVETI
FCRMCPGATPDEMQMALLHDAPEYVIGDMISPFKSVVGGGYKTVEKRLEAAVHLRFGLPPHASREL
KDRIKKADTVAAFFEATELAGFSTAEAQKFFGLPRGITRDMFDIIPLPSTEAQRLFIARFEAIETLRVT
RTGGAV
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111111
>DM_train1444
GYFEGMLIKQTDYFRIYRVINSLLISQNADPASASMYFSTFGAFILQQHYKVKAVPKGGLAAYNLGGTV
LLFADHREDGYVTGAGENFHCWVEADGWAIDFMAPAFSEGTDALAVPAKMFQRPLSAMAASINDL
GQSGDFFYRSEPEATARRFADWHKQAMIGDMASVAANWFRKSPKQMAASLSVTDRDGKARTVPLT
GEMLTGAW
000000000000000000000000000000000000000000000000000000000000000000000000
000000110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1445
QTDMSRKAFVFPKESDTSYVSLKAPLTKPLKAFTVCLHFYTELSSTRGYSIFSYATKRQDNEILIFWSK
DIGYSFTVGGSEILFEVPEVTVAPVHICTSWESASGIVEFWVDGKPRVRKSLKKGYTVGAEASIILGQE
QDSFGGNFEGSQSLVGDIGNVNMWDFVLSPDEINTIYLGGPFSPNVLNWRALKYEVQGEVFTKPQL
WP
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
111111000000000000000000000000000000000000000000000000000000000000000000
>DM_train1446
MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSLLGGHYDPGFMATSPPEDRPGGGGG
AAGGAEDLAELDQLLRQRPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQTFCPVLY
AWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCGWIPIQYPIIS
ECKCSC
000000000000000000000000000000000000000000000000000000000000000111111100
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1447
MAKKIFTSALGTAEPYAYIAKPDYGNEERGFGNPRGVYKVDLTIPNKDPRCQRMVDEIVKCHEEAYA
AAVEEYEANPPAVARGKKPLKPYEGDMPFFDNGDGTTTFKFKCYASFQDKKTKETKHINLVVVDSK

GKKMEDVPIIGGGSKLKVKYSLVPYKWNTAVGASVKLQLESVMLVELATFGGGEDDWADEVEENGY
VASGSAK
00000000000000000000000001110000000000000000000000000000000000000000
00000001111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111110000000000111111111
>DM_train1448
HMKISERQKDLLKEIGNIGAGNAATAISYMINKKVEISVPNVEIVPISKVIFIAKDPEEIVVGVKMPVTG
DIEGSVLLIMGTTVVKKILEILTGRAPDNLLNLDEFSASALREIGNIMCGTYVSALADFLGFKIDTLPP
QLVIDMISAIFAEASIEELEDNSEDQIVFVETLLKVEEEEEPLTSYMMMIPKPGYLVKIFERMGIQE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train1449
DEIIDETDNLYVSQGPGVDISGDVNLTDFDKIGWPNVEAVQSYQREFNAVSNIFDTIYPIGTIYENAVN
PNNPVTYMGFGSWKLFGQGKVLVGWNEDISDPNFALNNNDLDSGGNPSHTAGGTGGSTSVTLENT
NLPATETDEEVLIVDENGSVIVGGCQYDPDESGPIYTKYREAKASTNSTHTPPTSITNIQPYITVYRWI
RIA
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111000000000000000000000000000000000000
>DM_train1450
GSPEFSLDVRQEELGAVVDKEMAATSAAIEDAVRRIEDMMNQARHASSGVKLEVNERILNSCTDLM
KAIRLLVTTSTSLQKEIVESGRGAATQQEFYAKNSRWTEGLISASKAVGWGATQLVEAADKVVLHTG
KYEELIVCSHEIAASTAQLVAASKVKANKHSPHLSRLQECSRTVNERAANVVASTKSGQEQIEDRDTM
DFSGL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111
>DM_train1451
GSHMQVTPRRNVLQKRPVIVKVLSTTKPFEYETPEMEKKIMFHATVATQTQFFHVKVLNTSLKEKF
NGKKIIIISDYLEYDSLLEVNEESTVSEAGPNQTFEVPNKIINRAKETLKIDILHKQASGNIVYGVFMLH
KKTVNQKTTIYEIQDDRGKMDVVGTGQCHNIPCEEGDKLQLFCFRLRKKNQMSKLISEMHSFIQIKK
KTN
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000011111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>DM_train1452
GSPNSRVDELGFNEAERQKILDSNSSLMRNANEVRDKFIQNYATSLKDSNDPQDFLRRVQELRINM
QKNFISFDAYYNYLNNLVLASYNRCKQEKTFAESTIKNELTLGEFVAEISDNFNNFTCDEVARISDLVA
SYLPREYLPPFIDGNMMGVAFQILGIDDFGKKLNEIVQDIGTKYIILSKNKTYLTSLERAKLITQLKLNL
E
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111111

>DM_train1453
GTLIRATTLSRLSFIDVVNDNGFYQFEKPKEGRKYVATLDCSEGRGQDYHALQIIDITEFPYKQVAVYH
SNTTSHFILPDIVFKYLMMYNECPVYIELNSTGVSIAKSLAMDLEYDNIICDSFIDLGMKQSKRSKAM
GCSALKDLIEKDKLIINHKGTIQELRTFSEKGVSWAAEEGFHDDLVMSLVIFGWLTTQEKFAEYAGKD
E
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111000000000000000000000000000
>DM_train1454
MVRVKICGITNLEDALFSVESGADAVGFVFYPKSKRYISPEDARRISVELPPFVFRVGVFVNEEPEKIL
DVASYVQLNAVQLHGEEPIELCRKIAERILVIKAVGVSNERDMERALNYREFPILLDTKTPEYGGSGKT
FDWSLILPYRDRFRYLVLSGGLNPENVRSAIDVVRPFAVDVSSGVEAFPGKKDHDSIKMFIKNAKGL
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111110000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train1455
MRGSHHHHHHGSMYLDSQLAERRSMHGVLVDIYGLGVLITGDSGVGKSETALELVQRGHRLIADDR
VDVYQQDEQTIVGAAPPILSHLLEIRGLGIIDVMNLFGAGAVREDTTISLIVHLENWTPDKTFDRLGS
GEQTQLIFDVPVPKITVPVKVGRNLAIIIEVAAMNFRAKSMGYDATKTFEKNLNHLIEHNEETDQNS
SGDK
11111111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111111100000000
00000000000000000000000000000000000000000000000000001111111111
>DM_train1456
TMLCVLTTDAAAEPAALERALRRAAAATFDRLDIDGSCSTNDTVLLLSSGASEIPPAQADLDEAVLRV
CDDLCAQLQADAEGVTKRVTVTVTGAATEDDALVAARQIARDSLVKTALFGSDPNWGRVLAAVGMA
PITLDPDRISVSFNGAAVCVHGVGAPGAREVDLSDADIDITVDLGVGDGQARIRTTDLSHAYVEENSA
YSS
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111100000000000000000000000000000000000111
>DM_train1457
MHPKDQSVTLLSIIRDYLKLSDKEREAARILANGLVKVDGKTVREKKFAVGFMDVIEINGESYRVVYN
DQGALVLMKETKERASMKLLKVRSKVIAPGNRIQLGTHDGRTFITDDKSIKVGDVLAVSVPDMKISEI
IKMQPGNKAYITAGSHVNQTGTISKIEAKEGSSANLVHFQEGFSTIKDHVFMIGSSKFSFVLSPEEVIP
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001100000000000000000000000011111111
>DM_train1458
MEEVEEFKYEPKSVKEIFIEMKDTVELMVDLAYASLLFGDKEIAEEVLELEERIDLLNYQLMMHSVL
AARNVKEAEQVITILQIANAIEDISNAAGDLAKMVLEGVELHPVIKETILEGEEIIGKIQVYPESVIVGK
TLGELDLATNTGVWIIAVRRGKRWIFGPNENFKIRAGDVLIGRGTRTSIDHLKEIARGAIRVIGNERA
11111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000001111
>DM_train1459
APEGYRKLLDVQIFKDSPVVGWSGSGMGELETIGDTLPVDTTVTYNGLPTLRLNVQTTVQSGWWIS
LLTLRGWNTHDLSQYVENGYLEFDIKGKEGGEDFVIGFRDKVYERVYGLEIDVTTVISNYVTVTTDW
QHVKIPLRDLMKINNGFDPSSVTCLVFSKRYADPFTVWFSDIKITSEDNEKSAPAIKVNQLGFIPEAE
KYAL
1111111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111111111111111111111111
>DM_train1460
ASNAMHEWGLSEELKIQTKQMIEIAEKELSIMRNAIDKEDECILCKMEDIHHMLANVQTLAATYYIQ
AYLSPYTESSSFITTAIQHLSARKHGALIVVERNETLEALIQTGTTLNAHLTAPLLESIFYPGNPLHDGA
VLVKNNHIVSAANILPLTKSTEVDPELGTRHRAAIGLSEKSDALILVVSEETGRTSFALNGILYTISL
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>DM_train1461
MSPKVTKEHKDKRQAEILEAAKTVFKRKGFELTTMKDVVEESGFSRGGVYLYFSSTEEMFRRIIETGL
DEGLRKLDKSAEHQSVWASISSYLDELTEGLRDVADTLAPVQFEYLVTAWRNEERRQYLEKRYDLFV
ERFSRLLQKGIDQGEFQPVQPLATIAKFFLNMNDGIIQNALYFDEEKADVSGLAESAKLYLKTVLQAD
EK
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>DM_train1462
AQIKSLFATRLYHAPLSEHGPALDPAEFAASCYSIAEDDDAGQEWCEREGYPGYTSYASLTDLPWRFPI
FADLVKSLDAHVAAFAEDLEFELDGKALRLEDIWINILPEGGVHGSHIHPHSVISGTTYVAMPEGTSA
LKLEDPRLPFMMAAPTRRKGAREELRTFRSVAPKVGDVLLWESWLRHEVPMNMAEEDRISVSFNY
AWG
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000001
>DM_train1464
MATDTLTHATAHAHEHGHHDAGGTKIFGFWIYLMSDCILFSILFATYAVLVNGTAGGPTGKDIFELPF
VLVETFLLLFSSITYGMAAIAMYKNNKSQVISWLALTWLFGAGFIGMEIYEFHHLIVNGMGPDRSGFL
SAFFALVGTHGLHVTSGLIWMAVLMVQIARRGLTSTNRTRIMCLSLFWHFLDVVWICVFTVVYLMG
AM
1111111111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>DM_train1465
MILSDKDIIDYVTSKRIIIKPFNKDFVGPCSYDVTLGDEFIIYDDEVYDLSKELNYKRIKIKNSILVCPLN
YNLTEEKINYFKEKYNVDYVVEGGVLGTTNEYIELPNDISAQYQGRSSLGRVFLTSHQTAGWIDAGFK
GKITLEIVAFDKPVILYKNQRIGQLIFSKLLSPADVGYSERKTSKYAYQKSVMPSLIHLDNHKKD

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111111111111111111111111
>DM_train1466
GAFRTQKPSLNTVNVVGSSMGSGGVFTIDGKIKCVTAAHVLTGNSARVSGVGFNQMLDFDVKGDFAI
ADCPNWQGVAPKAQFCEDGWTGRAYWLTSSGVEPGVIGNGFAFCFTACGDSGSPVITEAGELVGVH
TGSNKQGGGIVTRPSGQFCNVKPIKLSELSEFFAGPKVPLGDVKIGSHIIKDTCEVPSDLCALLAAKPE
LE
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111100
00000000000000000000000000000000000000000000000000000000011111
>DM_train1467
GSHMADSYYDYICIIDFEATCEEGNPPEFVHEIIEFPVVLLNTHTLEIEDTFQQYVRPEINTQLSDFCIS
LTGITQDQVDRADTFPQVLKKVIDWMKLKELGTKYKYSLLTDGSWDMSKFLNIQCQLSRLKYPPFA
KKWINIRKSYGNFYKVPRSQTKLTIMLEKLGMDYDGRPHCGLDDSKNIARIAVRMLQDGCELRINEK
M
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
>DM_train1468
MRGSGSGSMGMTLETAFMLPVQDAQHSFRRLLKAMSEPGVIVALHQLKRGWQPLNIATTSVLLTLA
DNDTPVWLSTPLNNDIVNQSLRFHTNAPLVSQPEQATFAVTDEAISSEQLNALSTGTAVAPEAGATLI
LQVASLSGGRMLRLTGAGIAEERMIAPQLPECILHELTERPHPFPLGIDLILTCGERLLAIPRTTHVEVC
11111111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111110000000000000
00000000111100000000000000000000000000000000000000000000000000
>DM_train1469
GMEKLNFGIPEWAFEFHGHKCPYMPMGYRAGSYALKIAGLEKEKDHRTYLLSEMSPEDMNGCFND
GAQAATGCTYGKGLFSLLGYGKLALILYRPGRKAIRVHVRNSFMDELSTRASDFFRYRKQGYEPSEIPA
GAIDPVLEWISSLEDEEIFEYREIDGFTFEPVKKNGAKVRCDVCGEYTYEADAKLLNGKPVCKPDYYG
KK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011
>DM_train1470
AEHHHHHHLVPRGSIAIDDSAAVQRLTGLLNKAQTLTARFSQLTLDGSGTRLQETAGQLSLKRPGLFR
WHTDAPNEQLLISNGEKVWLYDPDLEQVTIQKLDQRLTQTPALLLSGDISKISESFAITYKEGGNVVD
FVLKPKTKDTLFDTLRLSFRSGKVNDMQMIDGVGQRTNILFFDVKMNEALDAKQFTFDVPPGVDVI
QE
11111111111111111110000000000000000000000000000000000000000000000000000
00000000000100000000000000000000000000000000000000000000000000000000000
11110000000000000000000000000000000000000000000000000000000000
>DM_train1471
SEHKAKYENVTKDIFDLRDYYSGASKELKNVTGYRYSKGGKHYLIFDKHQKFTRIQIFGKDIERLKTR

KNPGLDIFVVKEAENRNGTVFSYGGVTKKNQGAYYDYLNAPKFVIKKEVDAGVYTHVKRHYIYKEE
VSLKELDFKLRQYLIQNFDLYKKFPKDSKIKVIMKDGGYYTFELNKKLQPHRMSDVIDGRNIEKMEA
NIR
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1472
EGNGPAAVHYQPASPPRDACVYSSCYCEENVWKLCEYIKNHDQYPLEECYAVFISNERKMIPIWKQQ
ARPGDGPVIWDYHVVLLHVSSGGQSFIYDLDTVLPFPCLFDTYVEDAIKSDDDIHPQFRRKFRVICAD
SYLKNFASDRSHMKDSSGNWREPPPPYPCIETGDSKMNLNDFISMDPKVGWGAVYTLSEFTHRFGS
KNC
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>DM_train1474
LKAGPLLSSEKLIAIGASTGGTEAIRHVLQPLPLSSPAVIITQHMPPGFTRSFAERLNKLCQISVKEAED
GERVLPGHAYIAPGDKHMELARSGANYQIKIHDGPPVNRHRPSVDVLFHSVAKHAGRNAVGVILTGM
GNDGAAGMLAMYQAGAWTIAQNEASCVVFGMPREAINMGGVSEVVDLSQVSQQMLAKISAGQAIRI
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1475
MEPDMTQAFDDDTLRFYRGNATAYAERQPRSATLTKFLGELPAGAKILELGCGAGYQAEAMLAAGFD
VDATDGSPELAAEASRRLGRPVRTMLFHQLDAIDAYDAVWAHACLLHVPRDELADVLKLIWRALKP
GGLFYASYKSGEGEGRDKLARYYNYPSEEWLRARYAEAGTWASVAVESSEGKGFDQELAQFLHVSVR
KPE
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train1476
MRTLFFIPSMGSVRLPLIDFLVKNDIEYVILSRRNHVAVQREIALDMFLEMKDYDTLAFLDEDVVPIEI
DFQKVEAKFNEGYDVVCGYYYLKTLRGYSVYRKDWEKEIFDGEVNGCGLGFTFIKREFLEKIKRPAF
LAFKPIESPHWIGEDVYFFSTHKPRTYALSSLKAYHFIDERLALSPDRKLILQNDHVARIKHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
11111000000000000000000000000000000000000000000000000000000000000111
>DM_train1477
MRERRYSSTSPERLAAALFDVAAESGLEGASVREVAKRAGVSIGAVQHHFSTKDEMFAFALRTLVDK
LLARLSEVERGGDPARALFAAMSQLLPLDEARSREAHVMAAFAVRAATSPSLAEIRRKTLFTIRTGLS
AVLIGIGTPEAETRAALLLATVDGLALDAIGSPALYPPEYLEHALDIQIGMILQGADVVPSSSIELAS
11111111100000000000000000111111111111111111111111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111111
>DM_train1478

MLSINPNEQTEKDNYKLLTGSIIPRPVAFVTSVTKEGVLNGAPYSYFNIVAANPPLISVSVQRKAGERK
DTSRNAIEKGEFVVHISDESYVAAINETAANLPPNESEIELAKLTPIESEVISVPGVKEANIRMECVLER
AIPLGGTEDSPACDLLIGRVVRFHVAEHLYEKGRIHAEGLKPISRLAGHNYAKLGEQFELVRPI
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111
>DM_train1479
FKIETTPESRYLAQIGDSVSLTCSTTGCESPFFSWRTQIDSPLNGKVTNEGTTSTLTMNPVSFGNEHSY
LCTATCESRKLEKGIQVEIYSFPKDPEIHLSGPLEAGKPITVKCSVADVYPFDRLEIDLLKGDHLMKSQ
EFLEDADRKSLETKSLEVTFTPVIEDIGKVLVCRAKLHIDEMDSVPTVRQAVKELQVYISPKNT
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111
>DM_train1481
GMDDQSGDQMRPELTMPPAEAEALRMAYEEAEVILEYGSGGSTVVAAELPGKHVTSVESDRAWAR
MMKAWLAANPPAEGTEVNIVWTDIGPTGDWGHPVSDAKWRSYPDYPLAVWRTEGFRHPDVVLV
DGRFRVGCALATAFSITRPVTLLFDDYSQRRWQHQVEEFLGAPLMIGRLAAFQVEPQPIPPGSLMQLI
RTMTSP
11111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000
>DM_train1482
QKEQHSQLNQTKIAYEQRLLNDLEDMDDPLDLFLDYMIWISTSYIEVDSESGQEVLRSTMERCLIYIQ
DMETYRNDPRFLKIWIWYINLFLSNNFHESENTFKYMFNKGIGTKLSLFYEEFSKLLENAQFFLEAK
VLLELGAENNCRPYNRLLRSLSNYEDRLREMNIVENQNSVPDSRERLKGRLIYRTAPFFIRKFLTSS
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111000000000000000000000001
>DM_train1483
LPTLGPGWQRQNPDPPVSRTRSLLLDAASGQLRLEDGFHPDAVAWANLTNAIRETGWAYLDLSTNG
RYNDSLQAYAAGVVEASVSEELIYMHWMNTVVNYCGPFEYEVGYCEKLKNFLEANLEWMQREMEL
NPDSPYWHQVRLTLLQLKGLEDSYEGRLTFPTGRFTIKPLGFLLLQISGDLEDLEPALNKTNTKPSLG
SGS
11111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111110000
>DM_train1484
ISTLHHQTMPSDLTQDEFTQLSQSIAEFHTYQLGNGRCSSLLAQRIHAPPETVWSVVRRFDRPQIYK
HFIKSCNVSEDFEMRVGCTRDVNVISGLPANTSRERLDLLDDDRRVTGFSITGGEHRLRNYKSVTTV
HRFEKEEEEERIWTVVLESYVVDVPEGNSEEDTRLFADTVIRLNLQKLASITEAMNRNNNNNNSSQ
VR
11111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111111

>DM_train1485
MGIHLFWDSRVPVGLSRPVSEELSAVLEMPVSRIDDGIFPLEGFDPVRNQYDAVKVLLKLDMFRRR
MPQIFKPADMDLEFYNKFNHLHEKILLVTPGDLYEPLADFVFGLAYPKLGVAIVSPHRLQNEFYGKYA
DDSALIDRIVKEGAHEIGHLFGLGHCDNPGCIMYCPRNLDELDRKRKYFCGKCRVQLNGDTLEDDLF
S
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111
>DM_train1486
KLIGMLDSPYVRRVAISLKSLGLPFEHHSLSVFSTFEQFKAINPVVKAPTLVCEGGEVLMDSSLIIDYLE
TLAGPQRSLMPTALPQRLRELRLVGLALAACEKSVQIVYERNLRPAEKQHGPWLERVGGQLQAAYGE
LEQELQKQPLPRDGSLGQAGISLAVAWSFSQMMVADQFNPGQFPAVRGFAEYAEQLPVFLATPAT
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train1488
MKLFYKPGACSLASHITLRESGKDFTLVSVDLMKKRLENGDDYFAVNPKGQVPALLLDDGTLLTEGV
AIMQYLADSVPDRQLLAPVNSISRYKTIEWLNYIATELHKGFTPLFRPDTPEEYKPTVRAQLEKKLQY
VNEALKDEHWICGQRFTIADAYLFTVLRWAYAVKLNLEGLEHIAAFMQRMAERPEVQDALSAEGLK
00000000000000000000000000000001111111111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000001
11000000000000000000000000000000000000000000000000000000
>DM_train1489
AATSRTERIWPGGVIPYVIGGNFTGSQRAMFKQAMRHWEKHTCVTFIERSDEESYIVFTYRPCGCCS
YVGRRGNGPQAISIGKNCDKFGIVVHELGHVIGFWHEHTRPDRDNHVTIIRENIQPGQEYNFLKMEP
GEVNSLGERYDFDSIMHYARNTFSRGMFLDTILPSRDDNGIRPAIGQRTRLSKGDIAQARKLYRCPA
00000000000000000000000000000000000000000000000000000000000001111000000
00000000001100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1490
GADNNKWKPLFGKNLENANYNPEVWSETDGVLGAVKDESIWTKDEYENFELDLDFKTDVGTNSG
VVVYCTDTKDWIPNSVEIQIADDHCEKWGNGKPYEKCGAIYGHLGAVQDKVVKKPGEWNHMRIKC
AGQHIMVILNGKKVTEMDMSKWTSGTKNPDGSDIPSWLPKPFAELPTKGFIGLQGKHGDSLIWFRN
IKIRSL
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1491
MGAAGDAAIGRESRELMSAANVGRTISRIAHQIIEKTALDDPVGPDAPRVVLLGIPTRGVTLANRLAG
NITEYSGIHVGHGALDITLYRDDLMIKPPRPLASTSIPAGGIDDALVILVDDVLYSGRSVRSALDALRDV
GRPRAVQLAVLVDRGHRELPLRADYVGKNVPTSRSESVHVRLREHDGRDGVVISRGSHHHHHH
11111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111

>DM_train1492
MSANVQEAANAAIEPASFVKVPMPEPPSSLQQLINDWQLIKHREGGYFKETDRSPYTMEVEKPVNG
GSGNTEMVTRNQSTLIYYLLTPDSPIGKFHKNINRIIHILQRGKGQYVLVYPDGQVKSFKVGFDYKNG
EVSQWVVPGGVFKASFLLPNEEFDNGFLISEVVVPGFDFEDHTFLKGEDELKHLVGPEKAAELAFLA
11111111000000000000000000000000000000000000000000000000000111111111
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000
>DM_train1493
MRTFTWRKGSLSKVNTCYVLAGGKSKRFGEDKLLYEIKGKKVIERVYETAKSVFKEVYIVAKDREKFS
FLNAPVVLDEFEESASIIGLYTALKHAKEENVFVLSGDLPLMKKETVLYVLENFKEPVSVAKTEKLHT
LVGVYSKKLLEKIEERIKKGDYRIWALLKDVGYNEVEIPEELRYTLLNMNTKEDLKRILAIENHY
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111111
>DM_train1494
MGSSSSGRENLYFQGHMKNDTAALAADIVDFWKKAGPDKWFDKDAAFDNHFHDRFRDAHFAAAR
RELDGWLEGAESSLALMLLLDQFPRNCFRGTAHMYATDPLARFFADEAIRRGHDQAVSEDLRVFFY
LPFSHAEDIAAQQRACDLNQPLGGLYLHHAEEHRDIVERFGRFPHRNGILLRETTPEERQYLEEGGF
SGGS
11111111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>DM_train1495
MELRDRIDFLCKTILAIKTAGRLVLGIDGLSRSGKTTLANQLSQTLREQGISVCVFHMDDHIVERAKR
YHTGNEEWFEYYYLQWDVEWLTHQLFRQLKASHQLTLPFYDHETDTHSKRTVYLSDSDMIMIEGV
FLQRKEWRPFFDFVVYLDCPREIRFARENDQVKQNIQKFINRYWKAEDYYLETEEPIKRADVVFDM
TS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111111111111100000000000000000000000000000111
>DM_train1496
VSDAAERNLAFALSELDRITAQLKLPRHVEEEAARLYREAVRKGLIRGRSIESVMAACVYAACRLLKV
PRTLDEIADIARVDKKEIGRSYRFIARNLNLTPKKLFVKPTDYVNKFADELGLSEKVRRRAIEILDEAY
KRGLTSGKSPAGLVAAALYIASLLEGEKRTQREVAEVARVTEVTVRNRYKELVEKLKIKVPIA
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000
>DM_train1497
MHTKGPTPQQHDGSALRIGIVHARWNETIIEPLLAGTKAKLLACGVKESNIVVQSVPGSWELPIAVQ
RLYSASQLQTPSSGPSLSAGDLLGSSTTDLTALPTTTASSTGPFDALIAIGVLIKGETMHFEYIADSVSH
GLMRVQLDTGVPVIFGVLTVLTDDQAKARAGVIEGSHNHGEDWGLAAVEMGVRRRDWAAGKTE
11110000000000000000000000000000000000000000000000000000000000000000
00000111111111111111111111111111110000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000

>DM_train1498
GMTIKALFWDIGGVLLTNGWDREQRADVAQRFGLDTDDFTERHRLAAPELELGRMTLAEYLEQVV
FYQPRDFTPEDFRAVMEEQSQPRPEVLALARDLGQRYRMYSLNNEGRDLNEYRIRTFGLGEFLLAF
FTSSALGVMKPNPAMYRLGLTLAQVRPEEAVMVDDRLQNVQAARAVGMHAVQCVDAAQLREELAA
LGVR
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000
>DM_train1499
MSPSTEAAARTPSEARARLLGTATRIFYAEGIHSVGIDRITAEAQVTRATLYRHFSGKDDLILAYLDQA
DRGIRAQVTAARGSSPAADGQVRAVARSIVDGIRSPGFRGCAFLNAVAEYPDPAHPVHRAVLAHRQW
FLDTVTELLAQVGDGDGVAAGRHLVMLRDGAMAAGCLFDPELVSETFLHGVEGVLRDVSEKTSA
1111111111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000001111
>DM_train1500
GMIPFPESRLAAQMSFVVEIDKLKTILRQTLLTDSSRRENDAEHSWHIATMAFLLAEYADEAVQIGRV
ARMLLIHDIVEIDAGDTFIHDEAGNEDKEERERKAAARLFGLLPPDQAAEYSALWQEYEARETADA
RFADALDRLQPLLHNFETEGGTWKPHGVTRAKVDKLLPRIEAGSKRLGAYARALVDEAVRRGYLAP
1111110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>DM_train1501
MGHHHHHHGGHMSLLRFLEVVSEHIKNLRNHIDLETVGEMIKLIDSARSIFVIGAGRSGYIAKAFAM
RLMHLGYTVYVVGETVTPRITDQDVLVGISGSGETTSVVNISKKAKDIGSKLVAVTGKRDSSLAKMAD
VVMVVKGKMKQERDEILSQLAPLGTMFELTAMIFLDALVAEIMMQKHLTEKDLEARHAVLEEGGS
1111111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000011
>DM_train1502
MASMTGGQQMGRGSIVAASTIPGSAATLNTSITKNIQNGNAYIDLYDVKLGKIDPLQLIVLEQGFTAK
YVFRQGTKYYGDVSQLQSTGRASLTYNIFGEDGLPHVKTDGQIDIVSVALTIYDSTTLRDKIEEVRTNA
NDPKWTEESRTEVLTGLDTIKTDIDNNPKTQTDIDSKIVEVNELEKLLVLKLAAALEHHHHHH
1111111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000011
>DM_train1503
GSMSSPYILVLYYSRHGATAEMARQIARGVEQGGFEARVRTVPAVSTECEAVAPDIPAEGALYATLEDL
KNCAGLALGSPTRFGNMASPLKYFLDGTSSLWLTGSLVGKPAAVFTSTASLHGGQETTQLSMLLPLL
HHGMLVLGIPYSEPALLETRGGGTPYGASHFAGADGKRSLDEHELTLCRALGKRLAETAGKLGS
1111000000000000000000000000000000000000000000011111111111111000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000011111111111110000000000000000000000000000000000
>DM_train1504

RRLETQKEAEANRGYGKPSLGGPFHLEDMYGNEFTEKNLLGKFSIIYFGFSNCPDICPDELDKLGLW
LNTLSSKYGITLQPLFITCDPARDSPAVLKEYLSDFHPSILGLTGTFDEVKNACKKYRVYFSTPPNVKP
GQDYLVDHSIFFYLMDPEGQFVDALGRNYDEKTGVDKIVEHVKSYVPAEQRAKQKEAWYSFLFK
11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111111100
00000000000000000000000000000000000000001111111111111111
>DM_train1505
MALKYPSGKEYRGNKPNAARRPAADYANRGMTLEDDLNATNEYYRERGIAVIHKKPTPVQIVRVDY
PKRSAAVITEAYFRQASTTDYNGVYRGKYIDFEAKETKNKTAFPLKNFHAHQIRHMEQVVAHGGICF
AILRFSLLNETYLLDASHLIAWWNKQEAGGRKSIPKQEIERHGHSIPLGYQPRIDYISVVDNVYFTR
11111111111111111111111111110000000000000000000000000001111111111111
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1506
MVGQVIRKRGAYPEYTVEDVLAVIFLLKEPLGRKQISERLELGEGSVRTLLRKLSHLDIIRSKQRGHFL
TLKGKEIRDKLLSMFSEPIGVSVDGYPGIAIVVKNPPEFKSIELRDEAIKFDAKGAMILTVKDNEIVFPE
DFRPLKEMYPEVAKKIVDYEDGDAVIITWAETPAKALKSAIHVAYILKKEEITPEILEVVK
11111111111110000000000000000000000000000000000000000000000011000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001
>DM_train1507
GMTKKTGFFKRLKALTLPQKQLFATALCQRMLPNYQLFSEVCEFGDPAVLSTALELLWQSLYDPKLK
FNIDVHLQRLEDNTPEPADFEAYGVYPAMDAVVAISTLLGAIQGKIEEDIVNISKLSSSTVANYIEAISD
VDLVDEALDDFVFAHEVMEEEKELQNSLLEIIEENPKITAELVKGLRKDIIETGVSNIGISVA
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1508
DYGRADNENRVGQVTGLAWTEVGGDLLTIETACVPGKGKLTYTGSLGEVMQESIQAALTVVRARAEK
LGINPDFYEKRDIHVHVPEGATPKDGPAAGIAMCTALVSCLTGNPVRADVAMTGEITLRGQVLPIGGL
KEKLLAAHRGGIKTVLIPFENKRDLEEIPDNVIADLDIHPVKRIEEVLTLALQNEPSGMQVVTAK
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111111
>DM_train1509
SLGLAQSAQEILDRVEKNLSTPWQATVQGRIQGPGGEEELLARVYALPQARLFRVEFLKPGSLEGNFT
VITEKEVWNYLYLTNQLVISPREKAKIQGLGFAPQGLGDLKALSEQVDLRLEGEVRLPEGMAWKLVG
RSKENQGFAAMELYILKADPRPLRFVFLDEKGKVLADLKVVEFKRTNLTEAQLKRYPKDAQVVRR
11111000000000000000000000000011111000000000000000000000000000000000
00000000000000000011111111111111111111111100000000000000000000011100
00000000000000000000000000000000000000000000000000000000
>DM_train1510
SKVLVLKSSILAGYSQSNQLSDYFVEQWREKHSADEITVRDLAANPIPVLDGELVGALRPSDAPLTPR
QQEALALSDELIAELKAHDVIVIAAPMYNFNISTQLKNYFDLVARAGVTFRYTENGPEGLVTGKKAIV

ITSRGGIHKDGPTDLVTPYLSTFLGFIGITDVKFVFAEGIAYGPEMAAKAQSDAKAAIDSIVSA
00000000000000000000000000000000000000000000000000000001111110000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1511
MEHICGTSRIAGFRFSLYPMTDDFISVIKSALAATDTSKVWTKTDHISTVLRGSIDHVFDAAKAIYLH
AANSEQHIVMNGTFSIGCPGDTQGDTYLSKGDKRVNEDAVRGLKAEAPCQFALYPMNEPDYMGLIM
EAVDIAKAQGTFVQGVHYASELDGDAHDVFSTLEAVFRMAEQQTNHITMTVNLSANSPSRKNRKQG
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111
>DM_train1512
VAPGIVIPPKALFTQQGGAYGRCPNGTRALTVAELRGNAELQTYLRQITPGWSIYGLYDGTYLGQAYG
GIIKDAPPGAGFIYRETFCITTIYKTGQPAADHYYSKVTATRLLASTNSRLCAVFVRDGQSVIGACASPY
EGRYRDMYDALRRLLYMIYMSGLAVRVHVSKEEQYYDYEDATFQTYALTGISLCNPAASIC
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1514
MKSERILVVKTEDFLKEFGEFEGFMRVNFEDFLNFLDQYGFFRERDEAEYDETTKQVIPYVVIMDGD
RVLITKRTTKQSEKRLHNLYSLGIGGHVREGDGATPREAFLKGLEREVNEEVDVSLRELEFLGLINSS
TTEVSRVHLGALFLGRGKFFSVKEKDLFEWELIKLEELEKFSGVMEGWSKISAAVLLNLFLTQN
11100000000000000000000000000000000000000000000000000000000000000000
00011111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111
>DM_train1515
AHMGIQRPTSTTTDKKEIKAYLKQVDKIKDDEEPIKTVGKKIAELDEKKKKLTEDVNSKDTAVRGKA
VKDLIKNADDRLKEFEKEEDAIKKSEQDFKKAKSHVDNIDNDVKRKEVKQLDDVLKEKYKLHSDYA
KAYKKAVNSEKTLFKYLNQNDATQQGVNEKSKAIEQNYKKLKEVSDKYTKVLNKVQKEKQDVDQF
K
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111
>DM_train1516
MTAPHDVPDLTGSGEYLVPDVLQPGLTLVLVGTAPSGISARARAYYANPENKFWRTLHAVGLTPRQLV
PQEYATLPQYGLGLTDVAKRHSGVDAALPGEAWRPDELRRKVEHYRPRIVAFTSKRGASETLGVPTG
KLPYGPQPQPLDWPAETELWVLPSTSPLGHNHFRLEPWQALGDRVRELRGAAEAGNPSPETPVL
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111
>DM_train1517
MRHDFVFSGVIMLELNAKTTALVVIDLQEGILPFAGGPHTADEVVNRAGKLAAKFRASGQPVFLVRV
GWSADYAEALKQPVDAPSPAKVLPENWWQHPAALGTTDSDIEIIKRQWGAFYGTDLELQLRRRGID
TIVLCGISTNIGVESTARNAWELGFNLVIAEDACSAASAEQHNNSINHIYPRIARVRSVEEILNAL

11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>DM_train1518
GMTVRDENYFTEKYGLTRTHSDVLAAAKVVAPGRTLDLGCGNGRNSLYLAANGYDVTAWDKNPAS
MANLERIKAAEGLDNLQTDLVDLNTLTFDGEYDFILSTVVMMFLEAQTIPGLIANMQRCTKPGGYN
LIVAAMDTPDFPCTVGFPFAFKEGELRRYYEGWDMLKYNEDVGELHRTDENGNRIKLRFATMLARK
TA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
11111000000000000000000000000001111111111110000000000000
>DM_train1519
MSWENPGPPKRADARRNYDRIIEAAAAEVARHGADASLEEIARRAGVGSATLHRHFPSRWGLLQAV
FQERVAQLCDEARSLAAEHPPATALTRWLTSLAVFGAVTRGAARSLLPATGTNTGAALDSRCEQLLTE
AGADLLARAQEDGTVRDDVTALELLSLANAVSLAAEHTPDAAHHATRLMGIALGGLGAPGPRPQG
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111111000000000000000000000
000000000000000000000000000000000000000000000000001111111
>DM_train1521
MDAPDISYEHQETSVPNRSGIIPTLQNVVATVNLSCKLDLKNIALRARNAEYNPKRFAAVIMRIREPK
TTALIFASGKMVITGAKSEKSSRMAAQRYAKIIHKLGFNATFDDFKIQNIVSSCDIKFSIRLEGLAYAHS
NYCSYEPELFPGLIYRMVKPKIVLLIFVSGKIVLTGAKVRDDIYQAFNNIYPVLIQHRKA
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001
>DM_train1522
MGSSGSSNILIINGAKKFAHSNGQLNDTLTEVADGTLRDLGHDVRIVRADSDYDVKAEVQNFLWADV
VIWQMPGWWMGAPWTVKKYIDDVFTEGHGTLYASDGRTRKDPSKKYGSGGLVQGKKYMLSLTWN
APMEAFTEKDQFFHGVGVDGVYLPFHKANQFLGMEPLPTFIANDVIKMPDVPRYTEEYRKHLVEIF
G
11111000000000001111111110000000000000000000000000000000000000000000000
00000000000000000000000000000011111111110000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1524
MFADRLFNAMERNEPAPGMVLVAAPSMESEDFARSVILIIEHSEYATFGVNLASRSDVAVFNVIPEWV
PCVTKPQALYIGGPLNQQSVVGVGVTAQGVDAARVDNLTRLANRLVMVNLGADPEEIKPLVSGMRLF
AGHAEWAPGQLAQEIENGDWFVAPALPSDVTAPGSVDVWGDVMRRQPMPLPLYSTFPVNVGEN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111
>DM_train1525
MTSKGPEEEHPSVTLFRQYLRIRTVQPKPDYGAAVAFFEETARQLGLGCQKVEVAPGYVVTVLTWPG
TNPTLSSILLNSHTDVVPVFKEHWSHDPFEAFKDSEGYIYARGAQDMKCVSIQYLEAVRRLKVEGHR
FPRTIHMTFVPDEEVGGHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSERSPWWVRV

11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001
>DM_train1526
MHALYITHPQVKIDPAVPVPEWGLSERGAERAREASRLPWAKALRRIVSSAETKAIETAHMLAETSG
AAIEIIEAMHENDRSATGFLPPPEFEKAADWFFAHPEESFQGWERAIDAQARIVEAVKAVLDRHDAR
QPIAFVGHGGVGTLLKCHIEGRGISRSKDQPAGGGNLFRFSIAEFSLAAASPTCDWTAMETWQG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000110000000000000001000110000000000000000
>DM_train1527
MDTLAPESTRQNLRSQRLNLLTNEPHQRLESLVKSKEPFASRDNFARFVAAQYLFQHDLEPLYRNEA
LARLFPGLASRARDDAARADLADLGHPVPEGDQSVREADLSLAEALGWLFVSEGSKLGAAFLFKKA
AALELDENFGARHLAEPEGGRAQGWKSFVAILDGIELNEEEERLAAKGASDAFNRFGDLLERTFA
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1528
GMAGKVEARKAALREKLIDLAEAQIEAEGLASLRARELARQADCAVGAIYTHFQDLNALTLEVNGRT
FARLGAAVGAVVADGQDDHPNERLIAMSHAYLAFAREHPKLWRALFDVEMRSDGPVPQWYGHAM
AQLFSYITTPLAKIFPESDDAELDLMTRTLFSSVHGIVLLGLENRISGVPGEQLKTMIRLLLEQVGR
11111111100000000000000000000000000000000000000000000000000000000000000
00000111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train1529
MATFYEVIVRVPFDVEEHLPGISDSFVDWVTGQIWELPPESDLNLTLVEQPQLTVADRIRRVFLYEW
NKFSKQESKFFVQFEKGSEYFHLHTLVETSGISSMVLGRYVSQIRAQLVKVVFQGIEPQINDWVAITKV
KKGGANKVVDSGYIPAYLLPKVQPELQWAWTNLDEYKLAALNLEERKRLVAQFLAESSQRS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001111
>DM_train1530
RNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYPCTSEEIDHEDITKDKTSTVEACLPLE
LTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAKLLMDPKRQIFLD
QNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS
11111111111111111110000000000000000000000011111111111111100000000000000
00011111000000001111111000000000000000000000000000000000000000000000000
0000001111111111111111110000000000000000000000000000000
>DM_train1531
GSHGTTFNGIMQSYVPRIVPDEPDNDTDVESCINRLREDDTDLKEVNINNMKRVSKERIRSLIEAAC
NSKHIEKFSLANTAISDSEARGLIELIETSPSLRVLNVESNFLTPELLARLLRSTLVTQSIVEFKADNQR
QSVLGNQVEMDMMMAIEENESLLRVGISFASMEARHRVSEALERNYERVRLRRLGKDPNV
11111111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000001111
>DM_train1532
SNAMEALKRKIEEEGVVLSDQVLKVDSFLNHQIDPLLMQRIGDEFASRFAKDGITKIVTIESSGIAPAV
MTGLKLGVPVVFARKHKSLTLTDNLLTASVYSFTKQTESQIAVSGTHLSDQDHVLIIDDFLANGQAAH
GLVSIVKQAGASIAGIGIVIEKSFQPGRDELVKLGYRVESLARIQSLEEGKVSFVQEVHS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111
>DM_train1533
GHMNDALHIGLPPFLVQANNEPRVLAAPEARMGYVLELVRANIAADGGPFAAAVFERDSGLLIAAGT
NRVVPGRCSAAHAEILALSLAQAKLDTHDLSADGLPACELVTSAEPCVMCFGAVIWSGVRSLVCAARS
DDVEAIGFDEGPRPENWMGGLEARGITVTTGLLRDAACALLREYNACNGVIYNARCGVHKGS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111
>DM_train1534
MSLEKPKVERSEGKEKLEDYAYVLDFMPYGHPDDKRPIHRREPLAQVVGERNFTLLEVSIRKGKQPL
VMDRVYIGKGERDVVYKIKRRLRYEDLTPAAKTELPYVIEHIIKQDEKKYVDFFNKADSITTRMHQLE
LLPGVGKKMMWAIIEERKKRPFESFEDIAQRVKGIQRPEKLIVSRIIYEIKNPQTKYKLFTA
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1536
MKLIVGMTGATGAPLGVALLQALREMPNVETHLVMSKWAKTTIELETPYSARDVAALADFSHNPAD
QAATISSGSFRTDGMIVIPCSMKTLAGIRAGYADGLVGRAADVVLKEGRKLVLVPREMPLSTIHLENM
LALSRMGVAMVPPMPAFYNHPETVDDIVHHVVARVLDQFGLEHPYARRWQGLPQARNFSQENE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111
>DM_train1538
MPLPTFPALLFGLSGCLVDFGAQAATSDTPDDEHAQLTPGAQNALKALRDQGMPCAWIDELPEALS
TPLAAPVNDWMIAAPRPTAGWPQPDACWMALMALNVSQLEGCVLISGDPRLLQSGLNAGLWTIGL
ASCGPLCGLSPSQWQALNNAEREQRRAQATLKLYSLGVHSVIDHLGELESCLADIALRRSKGEKP
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1539
GMTYKDYTGLDRTELLSKVRHMMSDKRFNHVLGVERAAIELAERYGYDKEKAGLAALLHDYAKELS
DDEFLRLIDKYQPDPDLKKWGNNIWHGLVGIYKIQEDLAIKDQDILAAIAKHTVGSAQMSTLDKIVY
VADYIEHNRDFPGVEEARELAKVDLNKAVAYETARTVAFLASKAQPIYPKTIETYNAYIPYLD
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1540

GMTTTQPEAKDRISSLPVPDATQVPEGVRKLWAKAEANIGFVPNVFRAQAVNGEQFLAWWNYFNL
LLNKEGYLTNAERELVAVVVSGVNRCLYCAVSHGAALREFLGDPQKADAVAVNWRHADLTEREQAL
AAYAEKLTRHPAEVTAADLEPLRAVGLDDHQIMELVQVIGMFNLTNRVSSALGFVPNPEYYRQAR
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1541
MSLSLKIALISQNENLLNLFPKLALEKNFIPITKTASLTRASKIAFGLQDEVDAIISRGATSDYIKKSVSI
PSISIKVTRFDTMRAVYNAKRFGNELALIAYKHSIVDKHEIEAMLGVKIKEFLFSSEDEITTLISKVKTE
NIKIVVSGKTVTDEAIKQGLYGETINSGEESLRRAIEEALNLIEVRNEGHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111
>DM_train1542
MAEICLITGTPGSGKTLKMVSMMANDEMFKPDENGIRRKVFTNIKGLKIPHTYIETDAKKLPKSTDE
QLSAHDMYEWIKKPENIGSIVIVDEAQDVWPARSAGSKIPENVQWLNTHRHQGIDIFVLTQGPKLLD
QNLRTLVRKHYHIASNKMGMRTLLEWKICADDPVKMASSAFSSIYTLDKKVYDLYESAEVHT
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train1543
DILECDYFDTVDISAAQKLQNGSYLFEGLLVPAILTGEYDFRILPDDSKQKVARHIRGCVCKLKPCVRF
CCPHDHIMDNGVCYDNMSDEELAELDPFLNVTLDDGSVSRRHFKNELIVQWDLPMPCDGMFYLD
NREEQDKYTLFENGTFFRHFDRVTLRKREYCLQHLTFADGNATSIRIAPHNCLIVPSITGQT
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111
>DM_train1544
MRGSHHHHHHLVPRGSKTRGQIQVILGPMFSGKSTELMRRVRRFQIAQYKCLVIKYAKDTRYSSSFCT
HDRNTMEALPACLLRDVAQEALGVAVIGIDEGQFFPDIVEFCEAMANAGKTVIVAALDGTFQRKPFG
AILNLVPLAESVVKLTAVCMECFREAAYTKRLGTEKEVEVIGGADKYHSVCRLCYFKKAS
11111111111111111100000000000000000000000000000000000000001111111111
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111
>DM_train1545
SNAMWKRMTAKAEGLYIADTKSFVTKQMDKLDFDYGGIPGDLHFGLTKKAGAREPMFSRGTEIFNR
RQISIVSIEECNEIALKMGVPRILPEWLGANVAVSGMPDLTSLKEGSRIIFPSGAALLCEGENDPCIQPG
EVIQSYYPDQPKLASAFVRHALGIRGIVCIVERPGAVYTGDEIEVHSYQRKVKRKAERV
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111
>DM_train1546
EAASSSDADGKEVGSSGEGNRATGGKWRRPSLAQQRARRAQLPPAFDVVHWNDEDISRGHLLRVL
HRDTFVVLDYHRQARMLTEEGNKAERVVSVMLPAVYTARFLAVLEGRSEKVEVHSRYTNATFTPNP

AAPYTFTLKCTSTRPAQQKQQVAGEEGDETFEWTVEFDVAESLMLQRFLTQALHYNTGFARTSV
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001111111111110000000000000000000000000000000111
>DM_train1547
GMSLAPWRGAIAHALHRNRSLVYARYLQLATVQPNGRPANRTLVFRGFLEDTNQLRFITDTRSAKA
DQIQQQPWAEICWYFPNTREQFRMAGDLTLISSDDSHQDLQPARIAMWQELSDAARLQFGWPYPG
KPRIKESGAFEPSPPDPIEPVPNFCLLLLDPVQVDHLELRGEPQNRWLYHRNDQQEWSSEAINP
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011110000
00000000000000000000000000000000000000000000000000
>DM_train1548
MSAFFLNMEKSIITQKIIAKAFKDLMQSNAYHQISVSDIMQTAKIRRQTFYNYFQNQEELLSWIFEND
FAELINDNSDYYGWQNELLLLLRYLDENQIFYQKIFVIDKNFEHFFLIQWENLLDKVIFDQEKKSDYH
WSDLEKSFICRYNAAAICAITRESIIRGNSLEKLYSQIVNLLLAQIKIFESLEHHHHHH
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111
>DM_train1549
SETQSFVVSVAGSDRVGIVHDFSWALKNISANVESSRMACLGGDFAMIVLVSLNAKDGKLIQSALESA
LPGFQISTRRASSVAERHVSPDTREYELYVEGPDSEGIVEAVTAVLAKKGANIVELETETLPAPFAGFT
LFRMGSRVAFPFPLYQEVVTALSRVEEEFGVDIDLEEVVEGEDSEEDDDSPNSPVGRH
10000000000000000000000000000000000000000000000000000000000000000000
00000000011111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111111111111111
>DM_train1550
MSVEKIPGYTYGETENRAPFNLEDLKLLKEAVMFTAEDEEYIQKAGEVLEDQVEEILDTWYGFVGSH
PHLLYYFTSPDGTPNEKYLAAVRKRFSRWILDTSNRSYDQAWLDYQYEIGLRHHRTKKNQTDNVES
VPNIGYRYLVAFIYPITATMKPFLARKGHTPEEVEKMYQAWFKATTLQVALWSYPYVKYGDF
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1551
MARTEKIYIYGASGHGLVCEDVAKNMGYKECIFLDDFKGMKFESTLPKYDFFIAIGNNEIRKKIYQKIS
ENGFKIVNLIHKSALISPSAIVEENAGILIMPYVVINAKAKIEKGVILNTSSVIEHECVIGEFSHVSVGAK
CAGNVKIGKNCFLGINSCVLPNLSLADDSILGGGATLVKNQDEKGVFVGVPAKRM
11000000000110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1552
MTAPHDPLDDIQADPWALWLSGRTRTALELPHYRRAAVLVALTREADPRVLLTVRSSELPTHKGQIA
FPGGSLDAGETPTQAALREAQEEVALDPAAVTLLGELDDVFTPVGFHVTPVLGRIAPEALDTLRVTP
EVAQIITPTLAELRAVPLVRERRTLPDGTEVPLYRYPWRGLDIWGMTARVLHDLLEQGPG
11110000000000000000011111111110000000000000000000000001111110000000000

0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001111
>DM_train1553
STNDNIKDLLDWYSSGSDTFTNSEVLDNSLGSMRIKNTDGSISLIIFPSPYYSPAFTKGEKVDLNTKRI
KKSQHTSEGTWIHFQISGVTNTEKLPTPIELPLKVKVHGKDSPLKYWPKFDKKQLAISTLDFKIRHQ
LTQTHGLYRSSDKTGGYWKITMNDGSTYQSDLSKKFEYNTEKPPINIDEIKTIEAEIN
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train1554
CSCSPVHPQQAFCNADVVIRAKAVSEKEVDSGNDIYGNPIKRIQYEIKQIKMFKGPEKDIEFIYTAPSSA
VCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIVPWDTLSTTQKKSLNHRYQMGCECKITRCPMIP
CYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111111111111
>DM_train1555
HMPGGSKKIGIFGGTFDPPHNGHLLMANEVLYQAGLDEIWFMPNQIPPHKQNEDYTDSFHRVEML
KLAIQSNPSFKLELVEMEREGPSYTFDTVSLLKQRYPNDQLFFIIGADMIEYLPKWYKLDELLNLIQFI
GVKRPGFHVETPYPLLFADVPEFEVSSTMIRERFKSKKPTDYLIPDKVKKYVEENGLYES
1111110000000000000000000000000000000000000111111111111110000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
000000000000000000000000000000000000000000000011111
>DM_train1556
GSHMSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQEAFIKAYRALDSF
RGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVF
RTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000011111111111111111111111111100000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train1557
LTTISSILSLKREKPDNLAIILQIDFTKLKEEDSLIVVYNSLKALTIKFARLQFCFVDRNNYVLDYGSVL
HKIDSLDSISNLKSKSSSTQFSPIWLKNTLYPENIHEHLGIVAVSNSNMEAKKSILFQDYRCFTSFGRR
RPNELKIKVGYLNVDYSDKIDELVEASSWTFVLETLCYSFGLSFDEHDDDDEEDN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000011110
000000000000000010000000000000000000000000000111111
>DM_train1558
MAHHHHHHMTIRVMLQAMDQGHLLVNNVDKYVRAGRGVMVYIAFLSDRDSAPITDEALRHAVGV
LLHTKIFTHFSPEKMINQPQSLEECPEMDILIVPQASLGGKVKGRSVQFHQLVAKDVGAALYDRFCHF
VRVARGVDESRVDANGAPRSEGDAPKAEGWIKYNSRVISGTFGNRQGLRFESEGPFTHMFDI
1111111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000

>DM_train1559
MNHLISGFENFEKKINYRFKNKAYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLITKHLYEDPRQ
HSPGVLTDLRSALVNNTIFASLAVKYDYHKYFKAVSPELFHVIDDFVQFQLEKNEMQGMDSELRRSE
EDEEKEEDIEVPKAMGDIFESLAGAIYMDSGMSLETVWQVYYPMMRPLIEKFSANVPRS
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111111111111111
00000000000000000000000000000000000000000000001111
>DM_train1560
GSMKNPQSKADDILQCARTLIIRGGYNSFSYADISQVVGIRNASIHHHFPSKSDLVCKLVSQYRQEAEA
GIAELEKNISDPLEQLRAYIGYWEGCIADATHPFCVCALLASEIPVLPETVVLEVRAHFRSLSDWLTAV
LERGIAQGRLVLTGTARANAEIFMATVHGAMLSARAHGDAATFGAITRPMLERITA
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1561
SIEFSTAITRQIVLDTETTGMNQIGAHYEGHKIIEIGAVEVVNRRLTGNNFHVYLKPDRLVDPEAFGV
HGIADEFLLDKPTFAEVADEFMDYIRGAELVIHNAAFDIGFMDYEFSLLKRDIPKTNTFCKVTDSLAV
ARKMFPGKRNSLDALCARYEIDNSKRTLHGALLDAQILAEVYLAMTGGQTSMATRESG
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111
>DM_train1563
MEERVLGMPAVESNMFPLGKQAPPFALTNVIDGNVVRLEDVKSDAATVIMFICNHCPFVKHVQHEL
VRLANDYMPKGVSFVAINSNDAEQYPEDSPENMKKVAEELGYPFPYLYDETQEVAKAYDAACTPDFY
IFDRDLKCVYRGQLDDSRPNNGIPVTGESIRAALDALLEGRPVPEKQKPSIGCSIKWKPSA
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1564
GPLGSPEFIILQTYRAIADYEKTSGSEMALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLD
SPDETEDPEPNYAGEPYVAIKAYTAVEGDEVSLLEGEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQ
KSGQDVSQAQRQIKRGAPPRRSSIRNAHSIHQRSRKRLSQDAYRRNSVRFLQQRRRQAR
11111111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111
>DM_train1565
SQDASDGLQRLHMLQISYFRDPYHVWYQGNASLGGHLTHVLEGPDTNTTIIQLQPLQEPESWARTQ
SGLQSYLLQFHGLVRLVHQERTLAFPLTIRCFLGCELPPEGSRAHVFFEVAVNGSSFVSFRPERALWQ
ADTQVTSGVVTFTLQQLNAYNRTRYELREFLEDTCVQYVQKHISAENTKGSQTSRSYTS
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111
>DM_train1566
MKDDPKVHLEAKELWDQFHKRGTEMVITKSGRRMFPPFKVRCSGLDKKAKYILLMDIIAADDCRY

KFHNSRWMVAGKADPEMPKRMYIHPDSPATGEQWMSKVVTFHKLKLTNNISDKHGFTILNSMHK
YQPRFHIVRANDILKLPYSTFRTYLFPETEFIAVTAYQNDKITQLKIDNNPFAKGFRDTGNGRR
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train1567
GMQTPALIIVTGHPATGKTTLSQALATGLRLPLLSKDAFKEVMFDGLGWSDREWSRRVGATAIMML
YHTAATILQSGQSLIMESNFRVDLDTERMQNLHTIAPFTPIQIRCVASGDVLVERILSRIAQGARHPGH
CDDRSPADLELVRSRGDIPPLPLGGPLLTVDTTFPEQIDMNAIVQWVRQHLQSGTAFL
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111110000
00000000000000000000000000000000000000000000111
>DM_train1568
TTHFTVADRWGNVVSYTTTIEQLFGTGIMVPDYGVILNNELTDFDAIPGGANEVQPNKRPLSSMTPT
ILFKDDKPVLTVGSPGGATIISSVLQTILYHIEYGMELKAAVEEPRIYTNSMSSYRYEDGVPKDVLSKLN
GMGHKFGTSPVDIGNVQSISIDHENGTFKGVADSSRNGAAIGINLKRKLEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111100
00000000000000000000000000000000000000000011111111
>DM_train1569
GMSLIEIRKRTLIVETTYHENGPAPAQPLKLAASCAVIRNPYAGRYEPDLMPFMAELRSLGTLLATEL
VDTLGKDNIEVYSKAAIVGVDGEMEHGAVWHEAGGWAMRSVLGEPKAMVPAVKAVATAGYRMMV
PVHYIHASYVRSHFNSIEIGIQDAPRPREILFALVMGTGARVHARLGGLTKEAVSVHDGQR
11000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1570
MKDVSKNQEENISDTALTNELIHLLGHSRHDWMNKLQLIKGNLSLQKYDRVFEMIEEMVIDAKHES
KLSNLKTPHLAFDFLTFNWKTHYMTLEYEVLGEIKDLSAYDQKLAKLMRKLFHLFDQAVSRESENH
LTVSLQTDHPDRQLILYLDFHGAFADPSAFDDIRQNGYEDVDIMRFEITSHECLIEIGLD
11111111111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111100000000000000000000
>DM_train1571
MLEKVYVALIHYPIKGKDGSIISTAVTNLDVHDIARTARTYNLKGYYIVTNLRAQQDMVSKMLKFWR
EGFGSRYNPSRAESLKLVKLKSYLEDVLEDIESVEGERPLIFFTSAKKRENDISFEEGRRIIIETEKPVLI
LLGTGWGLPDEILEISDYVLEPIRAQSDFNHLSVRAAAAIIIDRLIGENYARRD
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111
>DM_train1572
GRGTKQVYIIHGYRASSTNHWFPWLKKRLLADGVQADILNMPNPLQPRLEDWLDTLSLYQHTLHE
NTYLVAHSLGCPAILRFLEHLQLRAALGGIILVSGFAKSLPTLQMLDEFTQGSFDHQKIIESAKHRAVIA
SKDDQIVPFSFSKDLAQQIDAALYEVQHGGHFLEDEGFTSLPIVYDVLTSYFSKETR

11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111
>DM_train1573
MVYPIRLYGDPVLRRKARPVEDFSGIKRLAEDMLETMFEAKGVGLAAPQIGLSQRLFVAVEYADEPE
GEEERPLRELVRRVYVVANPVITYREGLVEGTEGCLSLPGLYSEEVPRAERIRVEYQDEEGRGRVLELE
GYMARVFQHEIDHLDGILFFERLPKPKREAFLEANRAELVRFQKEARALLKELSQG
10000000000000000000000000000000000000000000000000000000000111111111
11111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111111111
>DM_train1574
GSPEFGTRDRMLVLVLGDLHIPHRCNSLPAKFKKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHI
VRGDFDENLNYPEQKVVTVGQFKIGLIHGHQVIPWGDMASLALLQRQFDVDILISGHTHKFEAFEHE
NKFYINPGSATGAYNALETNIIPSFVLMDIQASTVVTYVYQLIGDDVKVERIEYKKS
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1575
MYQDLIRNELNEAAETLANFLKDDANIHAIQRAAVLLADSFKAGGKVLSCGNGGSHCDAMHFAEEL
TGRYRENRPGYPAIAISDVSHISCVGNDFGFNDIFSRYVEAVGREGDVLLGISTSGNSANVIKAIAAARE
KGMKVITLTGKDGGKMAGTADIEIRVPHFGYADRIQEIHIKVIHILIQLIEKEMVK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111111111111111000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1576
MGSDKIHHHHHHMVMEYELRTPLVKDQILKLKVGDVVYITGEIFTARDEAHARALEWMEEGKELP
FSFDKGVVYHCGPLVKKNDEWRVVSAGPTTSARMNPFTPKILEKVECMGIIGKGGMSEEVVEAMRG
KAAYFAFTGGAGALAAMSIKKVKGVVWEDLGMPEAVWLLEVERFGPCIVAIDAHGNSLYRR
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1577
MAPLGGAPRLVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRLSGPLKEQYAQEHGLNFQRLLDTST
YKEAFRKDMIRWGEEKRQADPGFFCRKIVEGISQPIWLVSDTRRVSDIQWFREAYGAVTQTVRVVAL
EQSRQQRGWVFTPGVDDAESECGLDNFGDFDWVIENHGVEQRLEEQLENLIEFIRSRL
00000000000000000000000000000000000000000000000000000000001111110000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1578
KVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVTQELRALM
DETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQST
EELRVRLASHLRKLRKRLLRDADALQKCLAVYQAGAREGAERGLSAIRERLGPLVEQGRVR
11111111111111111111110000000000000000000000000000000000000000000000
00000000001111111111000000000000000000000000000000000000000000000000

00000000000000000000011111111111111111111111111
>DM_train1579
MILRTSEETISTVQEKQQNISPLVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRS
GHSFLSNLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPAPILLMKSAR
NSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG
11111111111111111111111111110000000000011111111111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1581
FPTIPLSRLADNAWLRADRLNQLAFDTYQEFEEAYIPKEQIHSFWWNPQTSLCPSESIPTPSNKEET
QQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEEGIQTLMGRLEDGSPRT
GQIFKQTYSKFDTNSHNDDALLKNYGLLYCFNKDMSKVSTYLRTVQCRSVEGSCGF
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111111111
11111111111110000000000000000000000000001110000
>DM_train1582
GMTARNILSYSYEEYVEKITAFHGYPAPGVLIGGFMVDLAVKNLPEGILYDAICETRTCLPDAVQLLTP
CTFGNGWLTVLPMGLFAVSLYDKFTGEGVRVFLDVEKMGPWQEIRNWFLKLKTKKEQDSERLFKEI
REAGPDILELRNVKLKPGFLEKKHKGKIVLCPQCREAYPAQDGELCLSCQGGSPYL
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111110000000000000000
00000000000000000000000000000000000000000000
>DM_train1584
MVQAQTRDQIVAAADELFYRQGFAQTSFVDISAAVGISRGNFYYHFKTKDEILAEVIRLRLARTAQML
ADWQGTGDSPRARIASFIDLMIMNRAKITRYGCPVGSLCTELSKLDHAAQGQANGLFTLFRDWLQR
QFAEAGCTTEAPALAMHLLARSQGAATLAQSFHDEGFLRSEVADMHRWLDNTLPMTT
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>DM_train1585
GATDSATAAPAAAATTQVQKEAADVLQVAVQGANAMRDIQFARLALFHGQPDSAKKLTDDAAALLA
ADDASWAKFVKTDAKAKMIADRYVIINASIALSEDYVATPEKESAIQSANEKLAKGDQKGAIDTLRLA
GIGVIENQYLMPLNQTRKAVAQSQELLKAGKYYEANLVLKGAEEGIVVDSEMLVAGN
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111
>DM_train1586
MSRQANRGTESKKMSSELFTLTYGALVTQLCKDYENDEDVNKQLDKMGFNIGVRLIEDFLARSNVG
RCHDFRETADVIAKVAFKMYLGITPSITNWSPAGDEFSLILENNPLVDFVELPDNHSSLIYSNLLCGVL
RGALEMVQMAVEAKFVQDTLKGDGVTEIRMRFIRRIEDNLPAGEEAAAWSHPQFEK
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111111
>DM_train1587

MKVGIIMGSVRAKRVCPEIAAYVKRTIENSEELIDQKLKIQVVDLQQIALPLYEDDDELIPAQIKSVDEY
ADSKTRSWSRIVNALDIIVFVTPQYNWGYPAALKNAIDRLYHEWHGKPALVVSYGGHGGSKCNDQL
QEVLHGLKMNVIGGVAVKIPVGTIPLPEDIVPQLSVHNEEILQLLASCIETTRNK
10000000000000000000000000000011111111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111
>DM_train1588
DEPNQPSTPEAVTKTVTIDASKYETWQYFSFSKGEVVNVTDYKNDLNWDMALHRYDVRLNCGESG
KGKGGAVFSGKTEMDQATTVPTDGYTVDVLGRITVKYEMGPDGHQMEYEEQGFSEVITGKKNAQGF
ASGGWLEFSHGPAGPTYKLSKRVFFVRGADGNIAKVQFTDYQDAELKKGVITFTYTYPVK
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1589
MGVSLSKGGNVSLTKEAPGLTAVIVGLGWDIRTTTGTDFDLDASALLLNSGGKVASDAHFIFFNNLKS
PDGSVEHTGDNITGEGEGDDEQIKINLATVPADIEKIVFPVSIYDAENRQQSFGQVRNAFIRVVNQAG
EAEIARYDLSEDASTETAMVFGELYRHGAEWKFRAIGQGYASGLRGIAQDFGVNV
11111111111100001100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1591
MSLTLADKVVYEEEIQKSRFIAKAAPVASEEEALAFLAENREPEATHNGHAYKIGLLYRFSDDGEPSG
TAGRPILHAIEAQGLDRVAVLVVRYFGGVKLGAGGLVRAYGGVAAEALRRAPKVPLVERVGLAFLVPF
AEVGRVYALLEARALKAEETYTPEGVRFALLLPKPEREGFLRALLDATRGQVALE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train1592
GAPEVSHVRGVTVRMETPEAILFSPGETFSTNVSIHAIAHDDQTYSMDVVWLRFDVPTSCAEMRIYE
SCLYHPQLPECLSPADAPCAASTWTSRLAVRSYAGCSRTNPPPRCSAEAHMEPVPGLAWQAASVNLE
FRDASPQHSGLYLCVVYVNDHIHAWGHITISTAAQYRNAVVEQPLDIEGRGHHHHHH
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train1593
GMQTTEIDLRLTEVSQQLTMVLVPGLRDSDDEHWQSHWERRFPHWQRIRQREWYQADLDRWVL
AIRRELSVCTQPVILIGHSFGALAACHVVQQGQEGIAGVMLVAPAEPMRFEIDDRIQASPLSVPTLTFA
SHNDPLMSFTRAQYWAQAWDSELVDVGEAGHINAEAGFGPWEYGLKRLAEFSEILIPNR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011
>DM_train1594
MTSRGDSREKILHTASRLSQLQGYHATGLNQIVKESGAPKGSLYHFFPNGKEELAIEAVTYTGKIVEH
LIQQSMDESSDPVEAIQLFIKKTASQFDNTESIKGIPVGLLASETALISEPLRTVCMKVFKSWEAVFAR

KLMENGFAEEEANQLGTLINSMIEGGIMLSLTNKDKTPLLLIAEQIPVLVRKKG
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000111
>DM_train1595
MENREPPLLPARWSSAYVSYWSPMLPDDQLTSGYCWFDYERDICRIDGLFNPWSERDTGYRLWMS
EVGNAASGRTWKQKVAYGRERTALGEQLCERPLDDETGPFAELFLPRDVLRRLGARHIGRRVVLGRE
ADGWRYQRPGKGPSTLYLDAASGTPLRMVTGDEASRASLRDFPNVSEAEIPDAVFAAKR
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000011
>DM_train1597
ADTLLILGDSLSAGYRMSASAAWPALLNDKWQSKTSVVNASISGDTSQQGLARLPALLKQHQPRWV
LVELGGNDGLRGFQPQQTEQTLRQILQDVKAANAEPLLMQIRLPANYGRRYNEAFSAIYPKLAKEFD
VPLLPFFMEEVYLKPQWMQDDGIHPNRDAQPFIADWMAKQLQPLVNHDSLEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011111111111
>DM_train1598
MKYKEPFGVKLDFETGIIENAKKSVRRLSDMKGYFIDEEAWKKMVEEGDPVVYEVYAIEQEEKEGD
LNFATTVLYPGKVGNEFFMTKGHYHSKIDRAEVYFALKGKGGMLLQTPEGEARFIEMEPGTIVYVPP
YWAHRTINTGDKPFIFLALYPADAGHDYGTIAEKGFSKIVVEENGKVVVKDNPKWRM
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011111
>DM_train1599
GMPTFNPELHAQTLNSERAYFVQPDADPAFTPHIGALVEMLTYARLTTLQAVEGLPEDQLWATAPGF
ANSIGTLLAHIAAVERVYHVLSFQGRDVTPEDDGAAYWGLTMGKEGTAPARLPTLDELRAELADAR
AETLRVFAAKDDAWLAEPLGPGWANQHWAWFHVMEDEVNHRGQLRLLRQVLAPEEGG
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011111
>DM_train1600
GMTSPSIESGARERTRRAILDAAMLVLADHPTAALGDIAAAAGVGRSTVHRYYPERTDLLRALARHV
HDLSNAAIERADPTSGPVDAALRRVVESQLDLGPIVLFVYYEPSILADPELAAYFDIGDEAIVEVLNRA
STERPEYPPGWARRVFWALMQAGYEAAKDGMPRHQIVDAIMTSLTSGIITLPRT
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011111
000000000000000000000000000000000000000000000011
>DM_train1601
MTNATIAPTTTAAPVTKSVDAPTADENTPLFSPSLISPDVLAVLPADYTIRPLCRSDYKRGYLDVLRVL
TTVGDINEEQWNSRYEWIRARSDEYYLLVVCDGEGRIVGTGSLVVERKFIHSLGMVGHIEDIAVEKGQ
QGKKLGLRIIQALDYVAEKVGCYKTILDCSEANEGFYIKCGFKRAGLEMAHYY
11111111111111111111111110000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train1602
GDRFYDLISALHKSVRGSAPDAALYWYARILTAGGDPLYVARRLLAIASEDVGNADPRAMQVALAAW
DCFTRVGAYEGERAIAQAIIYLSVAPKSNAVYTAFNTAKQQAKDLPDYDVPPHLRNAPTNLMKELGY
GAEYRYAHDEPNAYAAGENYFPPELKDTQYYFPTNRGMEIQIKEKLERLREQDKST
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111111111111
111111100000000000000000000000000000000000111111
>DM_train1603
MATEGMILTNHDHQIRVGVLTVSDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKIVPDEIEEIKET
LIDWCDEKELNLILTTGGTGFAPRDVTPEATKEVIEREAPGMALAMLMGSLNVTPLGMLSRPVCGIR
GKTLIINLPGSKKGSQECFQFILPALPHAIDLLRDAIVKVKEVHDRSHHHHHH
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111
>DM_train1604
GSHMVPISFVFNRFPRMVRDLAKKMNKEVNFIMRGEDTELDRTFVEEIGEPLLHLLRNAIDHGIEP
KEERIAKGKPPIGTLILSARHEGNNVVIEVEDDGRGIDKEKIIRKAIEKGLIDESKAATLSDQEILNFLF
VPGFSTKEKVSEVSGRGVGMDVVKNVVESLNGSISIESEKDKGTKVTIRLPLT
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11111111111000000000000000000000000000000000000
>DM_train1605
MGSSSSGRENLYFQGHMNHSIPTLRTERLTLRPLAMADFPAYRDFMASPRSTGVGGPYDLPSTWGV
FCHDLANWHFFGHGALMIDLGETGECIGQIGINHGPLFPEKELGWLLYEGHEGRGYAAEAAVALRD
WAFETLNLPTLVSYVSPQNRKSAAVAERIGGTLDPLAPRSDPEDLVYRYHQVKTAGS
11111100000001111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train1606
LERKEILFIPSENEKISKQFHLRYDIVRDRYIRVSDNNTNISGWENGVWKMESIFRKVEKDWNMVYL
ARKEGSSFAYISWKFECGSAGLKVDTVSIRTSSQSFESGSVRWKLRSETAQVNLLGDKNLRSYNDFSG
ATEVTLEAELSRGDGDVAWQHTQLFRQSLNDSGENGLEIIITFNDLLEHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111
>DM_train1608
MAFSVNYDSSFGGYSIHDYLGQWASTFGDVNHTNGNVTDANSGGFYGGSLSGSQYAISSTANQVTAF
VAGGNLTYTLFNEPAHTLYGQLDSLSFGDGLSGGDTSPYSIQVPDVSFGGLNLSSLQAQGHDGVVHQV
VYGLMSGDTGALETALNGILDDYGLSVNSTFDQVAAATAVGVQHADSPELLAA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000111111111111

>DM_train1609
MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTWHGG
IATIFQSPGDEVWGVVWKMNKSNLNSLDEQQGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYESA
PPSPQYKKIICMGAKENGLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL
11111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train1610
GMNLDSYERTGLRVSLDLVNIATPGSRRGTPHTGGCVIEDLHDLLKDDPASVAQLGDDHVEGFVELA
RLLHTAIDALSNGQVATAATALNHLLRKHPATPELAQDPDGTWRLHHHPLDAELVPMWTAICAEGL
AREIGHQNVRRFGICNAHRCDRVYFDTSRNGTRQYCSLACQNRVKAAAFRERRAT
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111
>DM_train1611
MLGTSFNNFGISLSHKRYFSGKVDEIIRCTMGKRIVKISSTKINTSILSSVSEQIGENITDWKNDEKKV
YVSRVVNQCIDKFCAEHSRKIGDNLRKQIFKQVEKDYRISLDINAAQSSINHLVSGSSYFKKKMDELCE
GMNRSVKNDTTSNVANLISDQFFEKNVQYIDLKKLRGNMSDYITNLESPF
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000
>DM_train1612
MGSDKIHHHHHHMFKGIIAALWDMDSIGEIEPDVVFLLKSDILNLKFHLKILKDRGKTVFVDMDFV
NGLGEGEEAILFVKKAGADGIITIKPKNYVVAKKNGIPAVLRFFALDSKAVERGIEQIETLGVDVVEVL
PGAVAPKVARKIPGRTVIAAGLVETEEEAREILKHVSAISTSSRILWKMKFLP
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111
>DM_train1613
MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLMLSSNQITMVINVSVEVVNTLYEDIQYMQ
VPVADSPNSRLCDFFDPIADHIHSVEMKQGRTLLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTWT
KSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPVGMIPDIYEKEVRLMIPL
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111111
>DM_train1614
MADDDDKAPPTLWSRVTKFGSGWGFWVSPTVFITTTHVVPTGVKEFFGEPLSSIAIHQAGEFTQFR
FSKKMRPDLTGMVLEEGCPEGTVCSVLIKRDSGELLPLAVRMGAIASMRIQGRLVHGQSGMLLTGAN
AKGMDLGTIPGDCGAPYVHKRGNDWVVCGVHAAATKSGNTVVCAVQAGEGETALE
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111100
00000000000000000000000000000000000000000000000
>DM_train1615
GMSRDRLYTWAGLWRSPSSSWEALRLEDDQAESQLRAPDERSGLPYQLDYRLRWDADWHLREAV

FHVESETGVRKLHLLADGRGHWQDGDGEALPAFDGCLDIDIWPSPFTNTFPIRRLGLADGQRAEIR
ALYIEAPALEPRSMRQAYTRLDASHYLYENLEGSAFKAVLLVDEQGLVIDYPGLFQRL
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1616
KTFIIGISGVTNSGKTTLAKNLQKHLPNCSVISQDDFFKPESEIETDKNGFLQYDVLEALNMEKMMS
AISCWMESARHSVVSTDQESAEEIPILIIEGFLLFNYKPLDTIWNRSYFLTIPYEECKRRRSTRVYQPP
DSPGYFDGHVWPMYLKYRQEMQDITWEVVYLDGTKSEEDLFLQVYEDLIQEL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1617
MSKAGASLATCYGPVSADVMAKAENIRLLILDVDGVLSDGLIYMGNNGEELKAFNVRDGYGIRCALT
SDIEVAIITGRKAKLVEDRCATLGITHLYQGQSNKLIAFSDLLEKLAIAPENVAYVGDDLIDWPVMEKV
GLSVAVADAHPLLIPRADYVTRIAGGRGAVREVCDLLLLAQGKLDEAKGQSI
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111
>DM_train1618
AHHHHHHMVHITLDRNTANSWLIISKDRRQVRMGDTHQNVSDNKERFSNYPMVLGAQRFSSGKM
YWEVDVTQKEAWDLGVCRDSVQRKGQFSLSPENGFWTIWLWQDSYEAGTSPQTTLHIQVPPCQIGI
FVDYEAGVVSFYNITDHGSLIYTFSECVFAGPLRPFFNVGFNYSGGNAAPLKLCPLKM
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011
>DM_train1619
AAIGSCSKEYRVLLGQLQKQTDLMQDTSRLLDPYIRIQGLDVPKLREHCRERPGAFPSEETLRGLGRR
GFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNIYCMAQLLDNS
DTAEPTKAGRGASQPPTPTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKW
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111111
11111111111100000000000000000000000000000000
>DM_train1620
MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSEL
TEAERLQENLQAYRTFHVLLARLLEDQQVHFTPTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIP
RNEADGMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIP
11111111111000000000000000000000000000000111111111111111111111000000
00000000000000000000000111111000000000000000000000000000000000011111
11111111111000000000000000000000000001111111
>DM_train1621
MPIASYAQELKLALHQYPNFPSEGILFEDFLPIFRNPGLFQKLIDAFKLHLEEAFPEVKIDYIVGLESRG
FLFGPTLALALGVGFVPVRKAGKLPGECFKATYEKEYGSDLFEIQKNAIPAGSNVIIVDDIIATGGSAAA
AGELVEQLEANLLEYNFVMELDFLKGRSKLNAPVFTLLNAQKEALKK

1111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000111100000000000000000000000000000000000
0000000000000000000000000000000000000111111111
>DM_train1622
MYKILEIADVVKVPPEEFGKDLKETVKKILMEKYEGRLDKDVGFVLSIVDVKDIGEGKVVHGDGSAY
HPVVFETLVYIPEMYELIEGEVVDVVEFGSFVRLGPLDGLIHVSQIMDDYVSYDPKREAIIGKETGKVL
EIGDYVRARIVAISLKAERKRGSKIALTMRQPYLGKLEWIEEEKAKKQNQE
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000001111111000000000000000000000000111111
>DM_train1624
GSDEDFVTCYSVLKFINANDGSRLHSHDVKYGSGSGQQSVTAVKNSDDINSHWQIFPALNAKCNRGD
AIKCGDKIRLKHLTTGTFLHSHHFTAPLSKQHQEVSAFGSEAESDTGDDWTVICNGDEWLESEQFKL
RHAVTGSYLSLSGQQFGRPIHGQREVVGTDSITGGSAWKVAEGIYIKHQQKDL
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000111111111
>DM_train1625
VGYGDITQVETSGASSKTSRQDKLEYDGVRASHTMAQTDAGRMEKYKSFINNVAKKHVVDPAVIAAI
ISRESRAGNVIFNTTPPGWGDNYNGFGLMQVDKRYHEPRGAWNSEEHIDQATGILVNFIQLIQKKFP
SWSTEQQLKGAIAAYNTGDGRVESYESVDSRTTGKDYSNDVVARAQWYKKNGF
0000000000000000000000000000000000000000000000000000000000000000000000000
0000011111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>DM_train1626
MSDSKEVPSLPFLRHLLEELDSHEDSLLLFLCHDAAPGCTTVTQALCSLSQQRKLTLAALVEMLYVLQ
RMDLLKSRFGLSKEGAEQLLGTSFLTRYRKLMVCVGEELDSSELRALRLFACNLNPSLSTALSESSRF
VELVLALENVGLVSPSSVSVLADMLRTLRRLDLCQQLVEYEQQEQARYRYC
1000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>DM_train1627
GMSQTTVVNGVNVDQLMATIEQIKAKPEIAQFKFRATNQWMGGTHNQATIKDFYGACAEDDTRKP
MVFDLDEPPVLLGENRGANPVEYLLVALSGCLTTSLVAHAAARGIALRGVKSRYEGDIDLRGFLGLSE
EVPVGYREIRVFFSIDADLTDGQKEELIRMAQKYSPVYNTVAKPVPVAVLLDRG
1111100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>DM_train1628
INAGTDLDNPKDLEVSDPTETTLSLRWRRPVAKFDRYRLTYVSPSGKKNEMEIPVDSTSFILRGLDA
GTEYTISLVAEKGRHKSKPTTIKGSTVVGSPKGISFSDITENSATVSWTPPRSRVDSYRVSYVPITGGTP
NVVTVDGSKTRTKLVKLVPGVDYNVNIISVKGFEESEPISGILKTALDS
1111111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000001111
>DM_train1629
MAPVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGISALRKETCNKSNMCESSKEALAENNLNLPK
MAEKDGCFQSGFNEETCLVKIITGLLEFEVYLEYLQNRFESSEEQARAVQMSTKVLIQFLQKKAKNLD
AITTPDPTTNASLLTKLQAQNQWLQDMTTHLILRSFKEFLQSSLRALRQM
11111111111111111110000000000000000000000000000000000111111111000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>DM_train1631
EKEMIERDMREYRGFSRAVRAVFEEKERFPGLVDVVSNLIEVDEKYSLAVSVLLGGTAQNIVVRNVDT
AKAIVEFLKQNEAGRVTILPLDLIDGSFNRISGLENERGFVGYAVDLVKFPSDLEVLGGFLFGNSVVVE
TLDDAIRMKKKYRLNTRIATLDGELISGRGAITGGREERSSNVFERRIK
1111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001111111111111
>DM_train1632
ASVTTPKGPGKSPDSPQWRQHQQDVRNLNQYQTRGAFAYISDQQKVYARFFWQQTGQDRYRLLLT
NPLGSTELELNAQPGNVQLVDNKGQRYTADDAEEMIGKLTGMPIPLNSLRQWILGLPGDATDYKLD
DQYRLSEITYSQNGKNWKVVYGGYDTKTQPAMPANMELTDGGQRIKLKMDNWIVK
1111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>DM_train1633
KQGIVKSDPKLPDDTTFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKR
MEKISKRVNAIEEVNNNVKLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMRPTLFRLASDTEDN
DEALAEILQANDNLTQVINLYKQLVRGEEVNGDATAGSIPGSTSALLDLSGLD
1111111111111111111111111111100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111111111111111111
>DM_train1634
MRKDETSNTSPDISVAQPASALRYHLRPPRRNDGAAIHQLVSECPPLDLNSLYAYLLLCEHHAHTCVV
AESPGGRIDGFVSAYLLPTRPDVLFVWQVAVHSRARGHRLGRAMLGHILERQECRHVRHLETTVGP
DNQASRRTFAGLAGERGAHVSEQPFFDRQAFGGADHDDEMLLRIGPFTHPPH
1111111111111111111111000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011110000000
0000000000000000011111111111110000000000000111
>DM_train1635
KMDMEDADMTLWTEAEFEEKCTYIVNDHPWDSGADGGTSVQAEASLPRNLLFKYATNSEEVIGVM
SKEYIPKGTRFGPLIGEIYTNDTVPKNANRKYFWRIYSRGELHHFIDGFNEEKSNWMRYVNPAHSPR
EQNLAACQNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNLTQ
1111110000000000000000000000111111111100000000000000000001000000000000
0000000000000000000111000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>DM_train1636

GSHMQQWVDCEFTGRDFRDEDLSRLHTERAMFSECDFSGVNLAESQHRGSAFRNCTFERTTLWHS
TFAQCSMLGSVFVACRLRPLTLDDVDFTLAVLGGNDLRGLNLTGCRLRETSLVDTDLRKCVLRGADL
SGARTTGARLDDADLRGATVDPVLWRTASLVGARVDVDQAVAFAAAHGLCLAGG
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train1637
SLWQPQTGDIIFQISRSSQSKAIQLATHSDYSHTGMLVMRNKKPYVFEAVGPVKYTPLKQWIAHGEK
GKYVVRRVEGGLSVEQQQKLAQTAKRYLGKPYDFSFSWSDDRQYCSEVVWKVYQNALGMRVGEQQ
KLKEFDLSNPLVQAKLKERYGKNIPLEETVVSPQAVFDAPQLTTVAKEWPLFSW
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111
>DM_train1638
GVSIRSMKNFYDWIKEFVRDQGEFIAQQSGWLELERSSYAKLIAQTISHVLNGGSLLVSADSSRHWFL
NYILSNLNPKDLKERPLLSVIDFNASSFYPKNDANLSLATIEMTYQNPMFWHVGKIENEGLKTILLSK
IPSFLWLFEELKEDCLLLKEHDSLLDYKLLQLFKLFENALFSVLYNKVTL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011100000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train1639
KKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGSFLTKGPSKLNDRADSRRSLWDQGN
FPLIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQGQSLTLTLESPPGSSPSVQCRSPRGK
NIQGGKTLSVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLAFQKASNT
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111
>DM_train1640
MKFCSQCGGEVILRIPEGDTLPRYICPKCHTIHYQNPKVIVGCIPEWENKVLLCKRAIAPYRGKWTLP
AGFMENNETLVQGAARETLEEANARVEIRELYAVYSLPHISQVYMLFRAKLLDLDFFPGIESLEVRLF
GEQEIPWNDIAFRVIHDPLKRYMEERHHGQPAFHLGIINKPQAGSNSNE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111111111
>DM_train1641
RKQPIGPEDVLGLQRITGDYLCSPEENIYKIDFVRFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPN
AGRFVRYQFTPAFLRLRQVGATVEFTVGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCE
HIYDFPPLSEELISEMIRHPYETQSDSFYFVDDRLVMHNKADYSYSGTP
11100000000000000000000000000000000000000000000000011111111111111110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train1642
MQKVHVQYIDGETDQMLRQDDLDGYTDETIPYSTAEGIKKFEGDGYELFKDNFPAGEKFDNDDTND
QFYTVIFKHHRENVDPNHSSADGTKGTKTLTETVHYKYANGTKAAEDQTAQVTFTRNGVLDDVTGI

VAWGKWNEASQSYKALTSPTIAGYAPSEAVVKRSSNSDAEQGPTLTVIYTADA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000001
>DM_train1643
MKGKTAAGGGAICAIAVMITIVMGNGNVRTNQAGLELIGNAEGCRRDPYMCPAGVWTDGIGNTHGV
TPGVRKTDQQIAADWEKNILIAERCINQHFRGKDMPDNAFSAMTSAAFNMGCNSLRTYYSKARGM
RVETSIHKWAQKGEWVNMCNHLPDFVNSNGVPLRGLKIRREKERQLCLTGLVNE
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>DM_train1645
ESSVNPVVLDFEDGTVMSFGEAWGDSLKCIKKVSVSQDLQRPGNKYALRLDVEFNPNNGWDQGDL
GTWIGGVVEGQFDFTGYKSVEFEMFIPYDEFSKSQGGFAYKVVINDGWKELGSEFNITANAGKKVKI
NGKDYTVIHKAFAIPEDFRTKKRAQLVFQFAGQNSNYKGPIYLDNVRIRPEDA
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>DM_train1646
AGVLWDVPSPPPVGKAELEDGAYRIKQKGILGYSQIGAGVYKEGTFHTMWHVTRGAVLMHKGKRIE
PSWADVKKDLISYGGGWKLEGEWKEGEEVQVLALEPGKNPRAVQTKPGLFKTNTGTIGAVSLDFSP
GTSGSPIVDKKGKVVGLYGNGVVTRSGAYVSAIANTEKSIEDNPEIEDDIFRK
11111111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000111111111111111111
>DM_train1648
AVPIAQKSEPHSLSSEALMRRAVSLVTDSTSTFLSQTTYALIEAITEYTKAVYTLTSLYRQYTSLLGKMN
SEEEDEVWQVIIGARAEMTSKHQEYLKLETTWMTAVGLSEMAAEAAYQTGADQASITARNHIQLVK
LQVEEVHQLSRKAETKLAEAQIEELKQKTQEEGEERAESEQEAYLRED
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train1649
MPKTLIILAHPNISQSTVHKHWSDAVRQHTDRFTVHELYAVYPQGKIDVAAEQKLIETHDSLVWQFP
IYWFNCPPLLKQWLDEVLTYGWAYGSKGKALKGRKIALAVSLGAPAADYRADGAVGCSVAEVLRPFE
LTAKYCNADYRPPFTFHTIDSNAGYSEAARQEVERSARDYLAWLDALQQT
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000011111110000000000000000000000011
>DM_train1650
VNSDSHPLFVRSLAKNMTWQLADTSTQKVLASGASATSGDKQSLLMQSVNLSYQEDGRGFNWRAQ
AALSLSYLEPTPLDSKFSTGYLELKMRIDKAPEQGANLQVMCSESNCLRDIDFSSFSQLMADKSWHT
LAIPLHCDDSDQAEQPITDALRITSQNLSLAIADVALTIKPSDDSISLTCAK
11110000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000111
11110000000000000000000000000000000000
>DM_train1651
MKYQLRFGGEGGQGVITAGEILAEAAIKEGRQAFKASTYTSQVRGGPTKVDIIIDDKEILFPYAVEGEV
DFMLSTADKGYKGFRGGVKEGGIIVVEPNLVHPESEDYKKWQIFEIPIITIAKDEVGNVATQSVVALAI
AAYMSKCIDLDVLKETMLHMVPAKTRDANAKAFDLGVKYATQAKPH
10000000001110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1652
MTKAELRRRARAAWRRLDLKALSRAVGAALLPWLRERGFRHILLYHPLPHELNLLPLMEAYPARYY
LPKVAGKGLTVHPFGPLAPGPFGLLEPTTPPEDPRVLDLVVVPGLAFDREGYRLGHGQGFYDRFLKE
VRAATVGVVPQALLFPALPRDPWDVPVDHLATEAGVEAVKRPAPGPGGLLD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111111
>DM_train1653
GPGSMEQPKGINILITGTPGTGKTSMAEMIAAELDGFQHLEVGKLVKENHFYTEYDTELDTHIIEEKD
EDRLLDFMEPIMVSRGNHVVDYHSSELFPERWFHMVVVLHTSTEVLFERLTKRQYSEAKRAENME
AEIQCICEEEARDAYEDDIVLVRENDTLEQMAATVEEIRERVEVLKVERGL
11111000000000000000000000000000000000000000000001111110000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111
>DM_train1654
GSMLISHSDMNQQLKSAGIGFNATELHGFLSGLLCGGLKDQSWLPLLYQFSNDNHAYPTGLVQPVTE
LYEQISQTLSDVEGFTFELGLTEDENVFTQADSLSDWANQFLLGIGLAQPELAKEKGEIGEAVDDLQD
ICQLGYDEDDNEEELAEALEEIIEYVRTIAMLFYSHFNEGEIESKPVLH
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111
>DM_train1655
NSRVSDLDLELLFQDRAARLGKSISRLIVVASLIDKPTNLGGLCRTCEVFGASVLVVGSLQCISDKQFQ
HLSVSAEQWLPLVEVKPPQLIDYLQQKKTEGYTIIGVEQTAKSLDLTQYCFPEKSLLLLGNEREGIPAN
LIQQLDVCVEIPQQGIIRSLNVHVSGALLIWEYTRQQLLSHGDTKP
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111
>DM_train1656
GMLFSIQTCPCQINPALNAVSTPLLYQDCCQPYHDGLYNQEVEDSDAIRADTAEHLMRTRYSAFVLVK
PEYIVKTTLPAQQDLLDIKAIENWAKETDWAGLEVVAHTPKLSKRHAQVEFKAYFKTPDGLQAHHE
LSTFVKIKNKANSDASWYFLDPTVSMSVTQKQPCICGSGEKFKRCCGMYI
10000000000000000000000000000000000000111111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000

>DM_train1657
SNAMKIAVINGGTRSGGNTDVLAEKAVQGFDAEHIYLQKYPIQPIEDLRHAQGGFRPVQDDYDSIIER
ILQCHILIFATPIYWFGMSGTLKLFIDRWSQTLRDPRFPDFKQQMSVKQAYVIAVGGDNPKIKGLPLIQ
QFEHIFHFMGMSFKGYVLGEGNRPGDILRDHQALSAASRLLKRSDAI
11110000000000000000000000000000000011111111111111111111111100000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train1658
GPGFDYAVAMAKRNIVTATTSKGEFTMLGVHDNVAILPTHASPGESIVIDGKEVEILDAKALEDQAGT
NLEITIITLKRNEKFRDIRPHIPTQITETNDGVLIVNTSKYPNMYVPVGAVTEQGYLNLGGRQTARTL
MYNFPTRAGQCGGVITCTGKVIGMHVGGNGSHGFAAALKRSYFTQSQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111
>DM_train1660
VGSADAPAPYRVSSDCMVCHGMTGRDTLYPIVPRLAGQHKSYMEAQLKAYKDHSRADQNGEIYMW
PVAQALDSAKITALADYFNAQKPPMQSSGIKHAGAKEGKAIFNQGVTNEQIPACMECHGSDGQGAGP
FPRLAGQRYGYIIQQLTYFHNGTRVNTLMNQIAKNITVAQMKDVAAYLSSL
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1661
GMDYNQTVLSHLQKFWKHHDIKGFTWTLGRIVEELPDFQVFQVIPNHEDEPWVYVSSGIGQFLGQE
FFIISPFETPEHIETLAMLASASMHYPDQFQLGKTVNIGRPWVEQSSFRHFLISLPYPYGQELEYMDN
VRFFWLLPITQTERLFLNTHSVEELETKFDEAGIDYLDINRASTVWQAG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train1662
SNAMTRYALLVRGINVGGKNKVVMAELRQELTNLGLEKVESYINSGNIFFTSIDSKAQLVEKLETFFA
VHYPFIQSFSLLSLEDFEAELENLPAWWSRDLARKDFLFYTEGLDVDQVIATVESLELKDEVLYFGKL
GIFWGKFSEESYSKTAYHKYLLKVPFYRHITIRNAKTFDKIGQMLKK
11000000000000000100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1663
MQRCDWVSQDPLYIAYHDNEWGVPETDSRKLFEMICLEGQQAGLSWITVLKKRENYRACFHQFDPI
RIAAMQEEDVERLLQNTGIIRHRGKIQAIISNARAWLAMEQNGESFADFVWSFVDGQPQITQAASLD
KIPTSTPASDALAKALKKRGFKFVGTTICYSFMQACGLVNDHITGCFCHP
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1664
TPMRSPIIWINGPFGVGKTHTAHTLHERLPGSFVFEPEEMGQALRKLTPGFSGDPQEHPMWIPLML

DALQYASREAAGPLIVPVSISDTARHRRLMSGLKDRGLSVHHFTLIAPLNVVLERLRRDGQPQVNVG
TVEDRLNELRGEQFQTHIDTAGLGTQQVAEQIAAQVGLTLAPPPQGALHW
11110000000000111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011110000000000000
00000000000000000000000000000000001111111
>DM_train1666
MSLTDVMFKSQIANQLKNLRKSRGLSLDATAQLTGVSKAMLGQIERGESSPTIATLWKIASGLEASFS
AFFANDPQLLSSERSFPDDLNMKIHTLFPYAADTGLEIFEITLLDHHQQMSSPHALGVIEYIHVLEGI
MKVFFDEQWHELQQGEHIRFFSDQPHGYAAVTEKAVFQNIVAYPRR
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001
>DM_train1667
MALTATVRRAELQISDMDRGYYANHSLTLAQHPSETDERLMVRLLAFALFADDRLEFGRGLSNDDE
PDLWRRDYTGDPDLWIDLGQPDESRVRKACNRSREAVVIGYGGQATETWWKKHANAMGRYRNLR
VIELDSQATEALGALIQRGMRFDVIIQDGEVQMLADHGSVTLTPMVRQAPAE
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011
>DM_train1668
QKPQRPRRPASPISTIQPKANFDAQQFAGTWLLVAVGSAARFLQEQGHRAEATTLHVAPQGTAMAVS
TFRKLDGICWQVRQLWGDTGVLGRFLLQARGARGAVHVVVAETDYQSFAVLYLERAGQLSVKLYARS
LPVSDSVLSGFEQRVQEAHLTEDQIFYFPKYGFCEAADQFHVLDEVRR
11111111100000000000000000000000000001111111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011
>DM_train1669
AGLKLMGAPVKLTVSQGQPVKLNCSVEGMEEPDIQWVKDGAVVQNLDQLYIPVSEQHWIGFLSLKS
VERSDAGRYWCQVEDGGETEISQPVWLTVEGVPFFTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIVW
WRGTTKIGGPAPSPSVLNVTGVTQSTMFSCEAHNLKGLASSRTATVHLQ
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1670
ELPSLCMLNNSFYYMKGGANIFLIRVSDVSVLMKEYDVSVYEPEDLGNCLNKSDSSWAIHWFSIALG
HDWLMDPPMLCRNKTKKEGSNIQFNISKADESRVYGKKIRNGMRHLFRGFYDPCEEGKVCYVTINQ
CGDPSSFEYCGTNYLSKCQFDHVNTLHFLVRSKTHLNFGTGTKHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111111111111111111111111111
>DM_train1671
GPAAGQAYDAGNLDVASSPVKPTLSITKKTLTAAEAPNAKVTMELSVEGAADKYAATGLHIQFDPKL
KLIPDEDGALATAGRAARLLELKKAEADTDNSFFTATGSSTNNGKDGVLWSFVLQVPADAQPGDKY
DVQVAYQSRTTNEDLFTNVKKDEEGLLMQAWTFTQGIEQGYIQVESTTS

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111
>DM_train1672
GSCRRAFDLYFVLDKSGSVANNWIEIYNFVQQLAERFVSPEMRLSFIVFSSQATIILPLTGDRGKISKGL
EDLKRVSPVGETYIHEGLKLANEQIQKAGGLKTSSIIIALTDGKLDGLVPSYAEKEAKISRSLGASVYCV
GVLDFEQAQLERIADSKEQVFPVKGGFQALKGIINSILAQSC
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1673
MHTQVHTARLVHTADLDSETRQDIRQMVTGAFAGDFTETDWEHTLGGMHALIWHHGAIIAHAAVI
QRRLIYRGNALRCGYVEGVAVRADWRGQRLVSALLDAVEQVMRGAYQLGALSSSARARRLYASRGW
LPWHGPTSVLAPTGPVRTPDDDGTVFVLPIDISLDTSAELMCDWRAGDVW
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1674
GGSNTNWKTLYEVKSENLGQGDKPDYFSSVATVVYLRKENCMYQACPTQDCNKKVIDQQNGLYRCE
KCDTEFPNFKYRMILSVNIADFQENQWVTCFQESAEAILGQNAAYLGELKDKNEQAFEEVFQNANF
RSFIFRVRVKVETYNDESRIKATVMDVKPVDYREYGRRLVMSIRRSALM
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
001111111000000000000000000000000000
>DM_train1675
MSKIICLTAGHSNTDPGAVNGSDREADLAQDMRNIVASILRNDYGLTVKTDGTGKGNMPLRDAVKLI
RGSDVAIEFHTNAAANKTATGIEALSTPKNKRWCQVLGKAVAKKTGWKLRGEDGFKPDNAGQHSR
LAYAQAGGIVFEPFFISNDTDLALFKTTKWGICRAIADAIAMELGAAKV
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1676
MGSDKIHHHHHHMTENSRKTATELFEFLDGLGISHTTKQHEPVFTVAESQSLRDLIPGGHTKNLFV
KDKKDQYFVLTVEENAVVDLKSVHKTIGAASRVSFGRPEKMLEYLGVVPGSVTVFGAINDTARQVTF
VLDSDLLENELVNGHPLSNDQTTTIASKDLIRFLEATGHAPLVLKVSE
111111111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1677
NQKCSGNPRRYNGKSCASTTNYHDSHKGACGCGPASGDAQFGWNAGSFVAAASQMYFDSGNKGWC
GQHCGQCIKLTTTGGYVPGQGGPVREGLSKTFMITNLCPNIYPNQDWCNQGSQYGGHNKYGYELHL
DLENGRSQVTGMGWNNPETTWEVVNCDSEHNHDHRTPSNSMYGQCQCAHQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000001
>DM_train1678
MAGSREVVAMDCEMVGLGPHRESGLARCSLVNVHGAVLYDKFIRPEGEITDYRTRVSGVTPQHMVG
ATPFAVARLEILQLLKGKLVVGHDLKHDFQALKEDMSGYTIYDTSTDRLLWREAKLDHCRRVSLRVL
SERLLHKSIQNSLLGHSSVEDARATMELYQISQRIRARRGLPRLAVSD
111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001111100000000000000
000000000000000000000000000000000000111
>DM_train1679
RIAISNSNRTRSVPSLTTIWSISPTPNCSIYETQDANLFLCLTKNGAHVLGTITIKGLKGALREMHDNA
LSLKLPFDNQGNLLNCALESSTWRYQETNAVASNALTFMPNSTVYPRNKTAHPGNMLIQISPNITFS
VVYNEINSGYAFTFKWSAEPGKPFHPPTAVFCYITEQGSHHHHHH
111111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001111111111100000000000
000000000000000000000000000000001111111
>DM_train1680
MELEIRPLFLVPDTNGFIDHLASLARLLESRKYILVVPLIVINELDGLAKGQETDHRAGGYARVVQEKA
RKSIEFLEQRFESRDSCLRALTSRGNELESIAFRSEDITGQLGNNDDLILSCCLHYCKDKAKDFMPASK
EEPIRLLREVVLLTDDRNLRVKALTRNVPVRDIPAFLTWAQVG
000000000000000000000000000000000000000000000000001111100000000000000
000000000000000000000000000000000001111110000000000000000000001111100
000000000000000000000000000000000000001
>DM_train1681
HQYLLPEAKAQDSDKICVVINLDETLVHSSFKPVNNADFIIPVEIDGVVHQVYVLKRPHVDEFLQRM
GELFECVLFTASLAKYADPVADLLDKWGAFRARLFRESCVFHRGNYVKDLSRLGRDLRRVLILDNSP
ASYVFHPDNAVPVASWFDNMSDTELHDLLPFFEQLSRVDDVYSVLRQ
100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1682
SLKVLAITGYKPFELGIFKQDDKALYYIKKAIKNRLIAFLDEGLEWILISGQLGVELWAAEAAYDLQEE
YPDLKVAVITPFYEQEKNWKEPNKEQYEAVLAQADYEASLTHRPYESPLQFKQKNQFFIDKSDGLLL
LYDPEKEGSPKYMLGTAEKRREQDGYPIYFITMDDLRVTVEEDSY
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000111
>DM_train1683
MKKWRFLGIDDSFDDRKCCVVGCVTCGGYVEGFLYTEIDIDGLDATDKLISMVRRSKFREQIKCIFLP
GITLGGFNLVDIQRVYRETKIPVVVVMRRKPDMEEFDSAMRNLENYELRRKIVEVAGEIHRIGDIYIQ
TAGLTPSEAEKLVKASLIKGNMPEPVRISHLVASAIIHGESRGKA
110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111111
>DM_train1684

CAVSSFRVKENFDKARFSGTWYAMAKKDPEGLFLQDNIVAEFSVDETGQMSATAKGRVRLLNNWD
VCADMVGTFTDTEDPAKFKMKYWGVASFLQKGNDDHWIVDTDYDTYAVQYSCRLLNLDGTCADSY
SFVFSRDPNGLPPEAQKIVAQRQEELCLAAQYRLIVHNGYCDGRSERNLL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000111111111
>DM_train1685
MRGSHHHHHHGSITSGNKSTNVTVHKSEAGTSSVFYYKTGDMLPEDTTHVRWFLNINNEKSYVSK
DITIKDQIQGGQQLDLSTLNINVTGTHSNYYSGQSAITDFEKAFPGSKITVDNTKNTIDVTIPQGYGSY
NSFSINYKTKITNEQQKEFVNNSQAWYQEHGKEEVNGKSFNHTVHN
111111111111111111111111111110000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1686
APLAYERPVLHLVALNTPVAGDIRADFQCFQQARAAGLLSTFRAFLSSHLQDLSTVVRKAERFGLPIV
NLKGQVLFNNWDSIFSGDGGQFNTHIPIYSFDGRDVMTDPSWPQKVVWHGSNPHGVRLVDKYCEA
WRTTDMAVTGFASPLSTGKILDQKAYSCANRLIVLCIENSFMTDTRK
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111111
>DM_train1687
MSVKMKKCSREDLQTLQQLSIETFNDTFKEQNSPENMKAYLESAFNTEQLEKELSNMSSQFFFIYFD
HEIAGYVKVNIDDAQSEEMGAESLEIERIYIKNSFQKHGLGKHLLNKAIEIALERNKKNIWLGVWEK
NENAIAFYKKMGFVQTGAHSFYMGDEEQTDLIMAKTLILEHHHHHH
100000000000000000000000011111111000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111
>DM_train1688
GSHMENMGTRVIEPLIMGRVVGDVLDFFTPTTKMNVSYNKKQVSNGHELFPSSVSSKPRVEIHGGD
LRSFFTLVMIDPDVPGPSDPFLKEHLHWIVTNIPGTTDATFGKEVVSYELPRPSIGIHRFVFVLFRQK
QRRVIFPNIPSRDHFNTRKFAVEYDLGLPVAAVFFNAQRETAARKR
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111111
>DM_train1689
VMLTRQQKELIVKEMSEIFKKTSLILFADFLGFTVADLTELRSRLREKYGDGARFRVVKNTLLNLALK
NAEYEGYEEFLKGPTAVLYVTEGDPVEAVKIIYNFYKDKKADLSRLKGGFLEGKKFTAEEVENIAKLP
SKEELYAMLVGRVKAPITGLVFALSGILRNLVYVLNAIKEKKSE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011
>DM_train1690
MGSSSSGLVPRGSGAVSGSVQASDRLMKELRDIYRSQSYKTGIYSVELINDSLYDWHVKLQKVDPDSP
LHSDLQILKEKEGIEYILLNFSFKDNFPFDPPFVRVVLPVLSGGYVLGGGALCMELLTKQGWSSAYSIE

SVIMQINATLVKGKARVQFGANKNQYNLARAQQSYNSIVQIHE
11111111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111111111111111111
>DM_train1691
GSSGSSGMANERMNLMNMAKLSIKGLIESALNLGRTLDSDYAPLQQFFVVMEHCLKHGLKAKKTFL
GQNKSFWGPLELVEKLVPEAAEITASVKDLPGLKTPVGRGRAWLRLALMQKKLSEYMKALINKKEL
LSEFYEVNALMMEEEGAIIAGLLVGLNVIDANFCMKGEDLDSQVGVID
11111110000000000000000000000000000000000000000000000000000001111111000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111
>DM_train1692
MEQRRLASTEWVDIVNEENEVIAQASREQMRAQCLRHRATYIVVHDGMGKILVQRRTETKDFLPG
MLDATAGGVVQADEQLLESARREAEEELGIAGVPFAEHGQFYFEDKNCRVWGALFSCVSHGPFALQ
EDEVSEVCWLTPEEITARCDEFTPDSLKALALWMKRNAKNEAVETETAE
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000111111111111
>DM_train1693
GAPRSHEVPLLVTLEELYLGKRKKIKVTRKRFIEHKVRNEENIVEVEIKPGWKDGTKLTYSGEGDQES
PGTSPGDLVLIIQTKTHPRFTRDDCHLIMKVTIPLVRALTGFTCPVTTLDNRNLQIPIKEIVNPKTRKI
VPNEGMPIKNQPGQKGDLILEFDICFPKSLTPEQKKLIKEALD
11111100000000000000000000001111111111000000000000000000000000000000000
00000000000000000000000000000000000000000000100000000000000000001000
00000000000000000000000000000000000001
>DM_train1694
GMFADNTLTPKEAVRLCALGTIASQPMRYSELAGSVRHFTSRIMGPSLELMGISIELLRYEGLVEAVD
DGQGMEDDAMLAISAAGRRELHSLLTARLRPGSDLSKLVVALKMRFLGLMEAEERAHQIDLLIEGVD
SELARLADLRGSDGEGGSALAAWLDHDMALLESRLAWLEDFRARL
11111100000000000000000000000000000000000000000000000000000000000001111
11110000000000000000000000000000000000000000000000000000000000000000000000
00001100000000000000000000000000000000
>DM_train1695
EVYALEESRDVYLSDLDWLNATHGDDTKSKIVQKNHPFTPGNNNQSTKISLKMEDGSISEFEKGLGT
IAGSPSTITYDISGAGVTKFFSYLGIDRSANPINEQYAKVDKIEVVVDGKVIYSTINQFPNGLTYETPAIK
VDLNIPENAKRLQLKSYAGEKTWGDEVVYADAKFTAKGDFVN
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train1697
AAQGKEVVLLDFAAAGGELGWLTHPYGKGWDLMQNIMNDMPIYMYSVCNVMSGDQDNWLRTN
WVYRGEAERIFIELKFTVRDCNSFPGGASSCKETFNLYYAESDLDYGTNFQKRLFTKIDTIAPDEITVS
SDFEARHVKLNVEERSVGPLTRKGFYLAFQDIGACVALLSVRVYYKKCP
11110000000000011100000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000111111111110000000
000000000000000000000000000000000000011
>DM_train1698
RSRLTADEYLKIYQAAESSPCWLRLAMELAVVTGQRVGDLCEMKWSDIVDGYLYVEQSKTGVKIAIP
TALHIDALGISMKETLDKCKEILGGETIIASTRREPLSSGTVSRYFMRARKASGLSFEGDPPTFHELRS
LSARLYEKQISDKFAQHLLGHKSDTMASQFRDDRGREWDKIEI
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111111111111111000000
>DM_train1699
MAAGQNGHEEWVGSAYLFVESSLDKVVLSDAYAHPQQKVAVYRALQAALAESGGSPDVLQMLKIHR
SDPQLIVQLRFCGRQPCGRFLRAYREGALRAALQRSLAAALAQHSVPLQLELRAGAERLDALLADEE
RCLSCILAQQPDRLRDEELAELEDALRNLKCGSGARGGDGEVASAP
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000011111111111111
>DM_train1701
SADVAGAVIDGASLSFDILKTVLEALGNVKRKIAVGVDNESGKTWTALNTYFRSGTSDIVLPHKVPHG
KALLYNGQKDRGPVATGAVGVLAYLMSDGNTLAVLFSVPYDYNWYSNWWNVRIYKGKRRADQRM
YEELYYNLSPFRGDNGWHTRNLGYGLKSRGFMNSSGHAILEIHVSKA
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train1702
MASNEARYVLAEEVDFSSPEEVKNWWNSGTWQAEFGSPDIEWNGEVGNGALQLNVKLPGKSDWE
EVRVARKFERLSECEILEYDIYIPNVEGLKGRLRPYAVLNPGWVKIGLDMNNANVESAEIITFGGKEY
RRFHVRIEFDRTAGVKELHIGVVGDHLRYDGPIFIDNVRLYKRTGGM
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000111
>DM_train1703
MSEHFVGKYEVELKFRVMDLTTLHEQLVAQKATAFTLNNHEKDIYLDANGQDLAKQQISMVLREM
NPSGIRLWIVKGPGAERCEASNIEDVSKVQSMLATLGYHPAFTIEKQRSIYFVGKFHITVDHLTGLGDF
AEIAIMTDDATELDKLKAECRDFANTFGLQVDQQEPRSYRQLLGF
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train1704
MAEEYSWDSYLNDRLLATNQVSGAGLASEEDGVVYACVAQGEESDPNFDKWSLFYKEDYDIEVEDE
NGTKTTKTINEGQTILVVFNEGYAPDGVWLGGTKYQFINIERDLEFEGYNFDVATCAKLKGGLHLVK
VPGGNILVVLYDEEKEQDRGNSKIAALTFAKELAESSQLQHHHHHH
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001111111111

>DM_train1705
ASWSHPQFEKGAMALTEAWLIEKANRKLNAGGMYKITSDKTRNVIKKMAKEGIYLCVAQGYRSTAE
QNALYAQGRTKPGAIVTNAKGGQSNHNYGVAVDLCLYTNDGKDVIWESTTSRWKKVVAAMKAEGF
KWGGDWKSFKDYPHFELCDAVSGEKIPAATQNTNTNSNRYEGKVIDSA
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111111111111
>DM_train1706
HHHHHHLAYSLDATASFLNFVSSKKTHVLETHRFDVLSGGISTAGEAQLVIDLNSVNTGIDVRNGRM
RDYLFETATYSVATVTVPVDLAAVAGLAVGEDMLVDVSATLDLHGVPGVIDTQLNVQRLSATRIMVQ
NQSPLLIKAADYSLEAGIETLRNLASLNVISTTVPVDFVLFYEAP
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1707
MVEIIPVSTTLELRAADESHVPALHQLVLKNKAWLQQSLDWPQYVTSQEETRKHVQGNILLHQRGY
AKMYLIFCQNEMAGVLSFNAIEPINKAAYIGYWLDESFQGQGIMSQSLQALMTHYARRGDIRRFVIKC
RVDNQASNAVARRNHFTLEGCMKQAEYLNGDYHDVNMYARIIDAD
11000000000000000000000000000011111111111111111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train1708
MISYEFQTHLPKGKDSSLNASSENKELYVQATHFNNTILLQIRLNGEMDSTYEVSSKGLNPILDINVPL
AGNLGNTGGDYDDEEEEFVRDHLSDYQVVTKLGDSADPKVPVVCVQIAELYRRVILPEVSGTMAQD
NMQFSLLISMSSKIWRATKEQSADDNDFGKLVFVLKCIKDMYAK
00000000000011111111110000000000000000000000000000000000000111111111111
11111111000000000000000000000000000000000000000000000000111111111100000
00000001111110000000000000000000001
>DM_train1709
GGGVTFCGGEPLLHPEFLIDILKRCGQQGIHRAVDTTLLARKETVDEVMRNCELLLIDLKSMDSTVH
QTFCDVPNELILKNIRRVAEADFPYYIRIPLIEGVNADEKNIKLSAEFLASLPRHPEIINLLPYHDIGKG
KHAKLGSIYNPKGYKMQTPSEEVQQQCIQILTDYGLKATIGG
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111
11111111100000000000000000000000000
>DM_train1710
MEDSCVLRGVMINKDVTHPRMRRYIKNPRIVLLDSSLEYKKGESQTDIEITREEDFTRILQMEEEYIH
QLCEDIIQLKPDVVITEKGISDLAQHYLMRANVTAIRRVRKTDNNRIARACGARIVSRPEELREDDVG
TGAGLLEIKKIGDEYFTFITDCKDPKACTILLRGASHHHHHH
11111110000000000000000000000000000011111111111111111111111110000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111111
>DM_train1711
MPAYHSSLMDPDTKLIGNMALLPIRSQFKGPAPRETKDTDIVDEAIYYFKANVFFKNYEIKNEADRT

LIYITLYISECLKKLQKCNSKSQGEKEMYTLGITNFPIPGEPGFPLNAIYAKPANKQEDEVMRAYLQQL
RQETGLRLCEKVFDPQNDKPSKWWTCFVKRQFMNKSLSGPGQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000111
>DM_train1713
GMARKVILFIAMSIDNYIADDQGAVDWLEKNVHGTESDDSYEKMYSKIDTVIMGRTTYEQVTQKLS
PEKYVYADRQTYIVTSHLGEDTDKIKYWKQSPVELVKRIQKEKGKDVWIVGGAKIIDPLVQANLIDTY
ILTTVPIFLGSGIRLFDRLEEQVPVRLIDVYQKNELVYSIYQRG
110000000000000000000000000000000000000000000000000000000001111000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1714
ADFTETFESSTHGEAPAEWTTIDADGDGQGWLCLSSGQLDWLTAHGGSNVVSSFSWNGMALNPDN
YLISKDVTGATKVKYYYAVNDGFPGDHYAVMISKTGTNAGDFTVVFEETPNGINKGGARFGLSTEAN
GAKPQSVWIERTVDLPAGTKYVAFRHYNCSDLNYILLDDIQFTMGG
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111000000000
000000000000000000000000000000011
>DM_train1715
SKPRILLMGLRRSGKSSIQKVVFHKMSPNETLFLESTNKIYKDDISNSSFVNFQIWDFPGQMDFFDP
TFDYEMIFRGTGALIYVIDAQDDYMEALTRLHITVSKAYKVNPDMNFEVFIHKVDGLSDDHKIETQR
DIHQRANDDLADAGLEKLHLSFYLTSIYDHSIFEAFSKVVQKLI
100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1716
MASAVGEKMLDDFEGVLNWGSYSGEGAKVSTKIVSGKTGNGMEVSYTGTTDGYWGTVYSLPDGDW
SKWLKISFDIKSVDGSANEIRFMIAEKSINGVGDGEHWVYSITPDSSWKTIEIPFSSFRRRLDYQPPGQ
DMSGTLDLDNIDSIHFMYANNKSGKFVVDNIKLIGALEHHHHHH
110000000000000000000000000000000000000000000000000000000000000000
000000011100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000111
>DM_train1718
MKWNLDPSHTSIDFKVRHMGIASVRGSLKVLSGSVETDEAGRPIQVEAVIDAASIATGEPQRDGHLR
SADFLHAEQYPEIRFVSTQIEPLGGNRYRIQGNLTIRDITKPVTLEAEVSAPIKDPWGMQRVAASASG
QINRKDWNLTWNQVLELGALLVGEEVKFNLEVEAVAPAPVAAQ
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000011
>DM_train1719
EAEASAVTVDTICKNGQLVQMSNHFKCMCNEGLVHLSENTCEEKNECKKETLGKACGEFGQCIENP
DPAQVNMYKCGCIEGYTLKEDTCVLDVCQYKNCGESGECIVEYLSEIQSAGCSCAIGKVPNPEDEKKC
TKTGETACQLKCNTDNEVCKNVEGVYKCQCMEGFTFDKEKNVCL

11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1720
PLGSQYFLKVLIPSYAAGSIIGKGGQTIVQLQKETGATIKLSKSKDFYPGTTERVCLIQGTIEALNAVHG
FIAEKIREMPQNVAKTEPVSILQPQTTVNPDRANQVKIIVPNSTAGLIIGKGGATVKAIMEQSGAWVQ
LSQKPDGINLQNRVVTVSGEPEQNRKAVELIIQKIQEDPQ
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000111111111111111110000000000000000000000000000000000000000000
011110000000000000000000000000000000
>DM_train1721
MTSVNLSYPIGEYKPRESISKEQKDKWIQVLEEVPAKLKQAVEVMTDSQLDTPYRDGGWTVRQVVH
HLADSHMNSYIRFKLSLTEETPAIRPYDEKAWSELKDSKTADPSGSLALLQELHGRWTALLRTLTDQ
QFKRGFYHPDTKEIITLENALGLYVWHSHHHIAHITELSRRMGWS
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train1722
APLVHHHHHHALANPAICRYPLGMSGGQIPDEDITASSQWSESTAAKYGRLDSEEGDGAWCPEIPVE
PDDLKEFLQIDLHTLHFITLVGTQGRHAGGHGIEFAPMYKINYSRDGTRWISWRNRHGKQVLDGNS
NPYDIFLKDLEPPIVARFVRFIPVTDHSMNVCMRVELYGCVWLDG
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001
>DM_train1723
MLAKVLKKRGAVLRGDFVLSSGRRSSVYIDMRRLLGDESSYSVALDLLLEVGGQDLARSSAVIGVATG
GLPWAAMLALRLSKPLGYVRPERKGHGTLSQVEGDPPKGRVVVVDDVATTGTSIAKSIEVLRSNGYT
VGTALVLVDRGEGAGELLARMGVRLVSVATLKTILEKLGWGGE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111111000000000000000000000000000000000000000000000
000000000000000000000000000000000111
>DM_train1725
AVSFIGSTENDVGPSLGSYSRTHAMDNLPFVYDTRNKIGYQNANVWHISKGFCVGLDGKVDLPVVGS
LDGQSIYGLTEEVGLLIWMGDTKYSRGTAMSGNSWENVFSGWCVGANTASTQGLSVRVTPVILKRN
SSARYSVQKTSIGSIRMRPYNGSSAGSVQTTVNFSLNPFTLNDT
00000000000000000000011111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train1726
MSIEKLKAALPEYAKDIKLNLSSITRSSVLDQEQLWGTLLASAAATRNPQVLADIGAEATDHLSAAAR
HAALGAAAIMGMNNVFYRGRGFLEGRYDDLRPGLRMNIIANPGIPKANFELWSFAVSAINGCSQCLV
AHEHTLRTVGVDREAIFEALKAAAIVSGVAQALATIEALSPS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000111111
>DM_train1727
GKSRQRSPANCPTIKLKRQWGGKPSLGLHYQVRPIRYVVIHHTVTGECSGLLKCAEILQNMQAYHQN
ELDFNDISYNFLIGNDGIVYEGTGWGLRGAHTYGYNAIGTGIAFIGNFVDKLPSDAALQAAKDLLACG
VQQGELSEDYALIAGSQVISTQSPGLTLYNEIQEWPHWLSNP
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1728
MLDAFSRVVTNADSKAAYVGGADLQALKKFISEGNKRLDSVNSIVSNASCIVSDAVSGMICENPSLISP
SGNCYTNRRMAACLRDGEIILRYVSYALLSGDASVLEDRCLNGLKETYSSLGVPANSNARAVSIMKAC
AVAFVNNTASQKKLSTPQGDCSGLASEVGGYFDKVTAAIS
11000000001000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1729
IIAMEKFAEYALSFGTEILTVEYGPLPIGKIVSEEINCSVYSVDPEGRVYTQAIAQWHDRGEQEVLEYEL
EDGSVIRATSDHRFLTTDYQLLAIEEIFARQLDLLTLENIKQTEEALDNHRLPFPLLDAGTIKMVKVIG
RRSLGVQRIFDIGLPQDHNFLLANGAIAAACFNISTGP
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111110000000000000000000000
00000000000000000000000000000011111
>DM_train1730
MGHHHHHHSHPVETSKFKFKCYGDFWLSVNRIYPEKRIELQLEVFKKLQDEKLYIVGWFSKGDHAE
RYARKIMKIAPDNVKFLGSVSEEELIDLYSRCKGLLCTAKDEDFGLTPIEAMASGKPVIAVNEGGFKET
VINEKTGYLVNADVNEIIDAMKKVSKNPDKFKKDCFRRAKEF
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1731
ISSASGESQMSLDEIEDVYHTRPGYRPEEYRWGQGGAKIIDYHIQSAGVDFPPSLTGNQQTDFLMKVV
FEYDFDCVVPGILIKTLDGLFLYGTNSFLASEGRENISVSRGDVRVFKFSLPVDLNSGDYLLSFGISAGN
PQTDMTPLDRRYDSIILHVTKSMDFWGVIDLKSSFTSYQ
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>DM_train1732
GMPQTLKPDTPAGTPAAGAVAFRRQVLPQDALLVRRVVESTGFFTPEEADVAQELVDEHLMHGAAC
GYHFVFATEDDDMAGYACYGPTPATEGTYDLYWIAVAPHRQHSGLGRALLAEVVHDVRLTGGRLLFA
ETSGIRKYAPTRRFYERAGFSAEAVLKAFYRAGDDKIIYRLEVA
11111111111111111100000000000000000000000000000000000000000000110000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1733

MRTSKKEMILRTAIDYIGEYSLETLSYDSLAEATGLSKSGLIYHFPSRHALLLGMHELLADDWDKELR
DITRDPEDPLERLRAVVVTLAENVSRPELLLLIDAPSHPDFLNAWRTVNHQWIPDTDDLENDAHKR
AVYLVQLAADGLFVHDYIHDDVLSKSKRQAMLETILELIPSQT
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111
>DM_train1734
MVKLTAELIEQAAQYTNAVRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFPLLRRLKT
LLVNNNRICRIGEGLDQALPDLTELILTNNSLVELGDLDPLASLKSLTYLCILRNPVTNKKHYRLYVIYK
VPQVRVLDFQKVKLKERQEAEKMFKGKRGAQLAKDIAR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111
>DM_train1735
ATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDALVSKYTDSQGKNR
TTIRGRTKFEGNKFTIDYNDKGKAFSAPYSVLATDYENYAIVEGCPAAANGHVIYVQLRMTLRRFHP
KLGDKEMLQHYTLDQVNQNKKAIEEDLKHFNLKYEDLHSTCH
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111110
00000000000000000000000000000000
>DM_train1736
SHQVGVAGAVFDESTRKILVVQDRNKLKNMWKFPGGLSEPEEDIGDTAVREVFEETGIKSEFRSVLSI
RQQHTNPGAFGKSDMYIICRLKPYSFTINFCQEECLRCEWMDLNDLAKTENTTPITSRVARLLLYGY
REGFDKIDLTVEELPAVYTGLFYKLYHKELPENYKTMKGID
11000000000000000000000000000000000000000000000000000000000000000000
01111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111
>DM_train1737
MSSHTATKYDVFLSFRGHDTRHNFISFLYKELVRRSIRTFKDDKELENGQRFSPELKSPIEVSRFAVVV
VSENYAASSWCLDELVTIMDFEKKGSITVMPIFYGVEPNHVRWQTGVLAEQFKKHASREDPEKVLK
WRQALTNFAQLSGDCSGDDDSKLVDKIANEISNKKTIYATI
11111100000000000000000000000000000000000011111111111111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111
>DM_train1738
HHHHHHGCMSGRKPIIGVMGPGKADTAENQLVMANELGKQIATHGWILLTGGRSLGVMHEAMKGA
KEAGGTTIGVLPGPDTSEISDAVDIPIVTGLGSARDNINALSSNVLVAVGMGPGTAAEVALALKAKKPV
VLLGTQPEAEKFFTSLDAGLVHVAADVAGAIAAVKQLLAKLN
11111111111000000000000000000000000000000000000000000000000000000000
00000011111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>DM_train1739
MAPEAQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDGGLNLTSTFLRKN
QCETRTMLLQPAGSLGSYSYRSPHWGSTYSVSVVETDYDQYALLYSQGSKGPGEDFRMATLYSRTQT

PRAELKEKFTAFCKAQGFTEDTIVFLPQTDKCMTEQAHHHHHH
11111100000000000000000000000000001111110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111111111
>DM_train1740
SATTSSKNGKPLVVVYGDYKCPYCKELDEKVMPKLRKNYIDNHKVEYQFVNLAFLGKDSIVGSRASH
AVLMYAPKSFLDFQKQLFAAQQDENKEWLTKELLDKHIKQLHLDKETENKIIKDYKTKDSKSWKAA
EKDKKIAKDNHIKTTPTAFINGEKVEDPYDYESYEKLLKDKIK
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111
>DM_train1741
LRPPLPPATPQEVQFVQHMLQHHAQALDLAAPMLERSQQRTVRSLALDIQLSQREQMRQMEAMLG
RWGQPPGEPISPEHARMMGMASEAEVAGLSTLPVEQAERQFLRLMIRHHQGAVAMTLPMLDAAAR
PEVERLARQIVVTQRGEIRTMEGVLGRLDGEVPAAPMRPVEHGHGH
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011000000000000000
00000000000000001111111111111111111
>DM_train1742
AITGIFFGSDTGNTENIAKMIQKQLGKDVADVHDIAKSSKEDLEAYDILLLGIPTWYYGEAQCDWDD
FFPTLEEIDFNGKLVALFGCGDQEDYAEYFCDALGTIRDIIEPRGATIVGHWPTAGYHFEASKGLADD
DHFVGLAIDEDRQPELTAERVEKWVKQISEELHLDEILNA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000111111
>DM_train1743
IFGIDDLIIGVLFVAIVETGIGGYLLGSRKESGGGVTKESAEKGFEKIGNDIQILKSSINIAIEKLNDRISH
DEQAIRDLTLEIENARSEALLGELGIIRALLVGNISIGLQESLWELASEITNRAGDLAVEVSPGCWIIDN
NICDQSCQNFIFKFNETAPVPTIPPLDTKIDLQ
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111
>DM_train1744
MSTTNHDHHIYVLMGVSGSGKSAVASEVAHQLHAAFLDGDFLHPRRNIEKMASGEPLNDDDRKPW
LQALNDAAFAMQRTNKVSLIVCSALKKHYRDLLREGNPNLSFIYLKGDFDVIESRLKARKGHFFKTQ
MLVTQFETLQEPGADETDVLVVDIDQPLEGVVASTIEVIKKGK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111110000000000
00000000000000000000000000000000
>DM_train1745
MAKKVAVLAVNPVNGCGLFQYLEAFFENGISYKVFAVSDTKEIKTNSGMVLIVDDVIANLKGHEDEF
DALVFSCGDAVPVFQQYANQPYNVDLMEVIKTFGEKGKMMIGHCAGAMMFDFTGITKGKKVAVHPL
AKPAIQNGIATDEKSEIDGNFFTAQDENTIWTMLPKVIEALK
11000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1746
METYPITVGGVTRHVPLIEPLPGRRIPLVEFLGDPEFTRAAAEALRPLVPKEAEILFTTETSPIPLTHV
LAEALGLPYVVARRRRRPYMEDPIIQEVQTLTLGVGEVLWLDRRFAEKLLNQRVVLVSDVVASGETM
RAMEKMVLRAGGHVVARLAVFRQGTPGLAVDTVAELPVL
10000000000000000000000000000001110000000000000000000000000000000000000
01111000000000000000000001111111100000000000000110000000000001100000100
000000001100000000000000000000000
>DM_train1747
MSLAKNIVFIGFMGSGKSTLARALAKDLDLVFLDSDFLIEQKFNQKVSEIFEQKRENFFREQEQKMA
DFFSSCEKACIATGGGFVNVSNLEKAGFCIYLKADFEYLKKRLDKDEISKRPLFYDEIKAKKLYNERLS
KYEQKANFILNIENKNIDELLSEIKKVIKEGGSHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111110000000000000000000000
000000000000000000000001111111111
>DM_train1748
AHHHHHHGSMLKEVHELLNRIWGDIFELREELKEELKGFTVEEVSEVFNAYLYIDGKWEEMKYPHP
AFAVKPGGEVGATPQGFYFVFAFPKEELSKEFIEDVIRAFEKLFIYGAENFLEDFYNFEHPISGDEVW
DRIVNSDEEMINFEVDLGFDKEEVKREIKRFIELARRYNLL
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>DM_train1749
PLGSPNSSIVSLLGIKVLNNPAKFTDPYEFEITFECLESLKHDLEWKLTYVGSSRSLDHDQELDSILVG
PVPVGVNKFVFSADPPSAELIPASELVSVTVILLSCSYDGREFVRVGYYVNNEYDEEELRENPPAKVQV
DHIVRNILAEKPRVTRFNIVWDNENEGDLYPPEQPGV
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000011111
>DM_train1751
MAFPDTDVSPPRGGPSSPAKSPLLRSFKVKTYIPKNDEQNWVVVDASGVPLGRLATLIASRIRGKHR
PDFTPNMIQGDFVVVINAAQVALTGKKLDDKVYTRYTGYQGGLKTETAREALSKHPERVIEHAVFGM
LPKGRQGRAMHTRLKVYAGETHPHSAQKPQVLKTQPLEVK
11111111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111
>DM_train1752
AGKTMIPLLAFAAWSGTGKTTLLKKLIPALCARGIRPGLIKHTHHDMDVDKPGKDSYELRKAGAAQ
TIVASQQRWALMTETPDEEELDLQFLASRMDTSKLDLILVEGFKHEEIAKIVLFRDGAGHRPEELVID
RHVIAVASDVPLNLDVALLDINDVEGLADFVVEWMQKQNG
11110000000000000000000000000000000000000000011111111111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000

>DM_train1753
MKGPNLTEISKKITDSNAVLLAVKEVEALLSSIDEIAAKAIGKKIHQNNGLDTENNHNGSLLAGAYAIS
TLIKQKLDGLKNEGLKEKIDAAKKCSETFTNKLKEKHTDLGKEGVTDADAKEAILKTNGTKTKGAEE
LGKLFESVEVLSKAAKEMLANSVKELTSPVVAESPKKP
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111111
>DM_train1754
GMDIMLNTADISAAAILLPVEGAQLSELRQIPAEGGPVLHMLRLDSPQFSQFGEIYFSEVLPRRVKAW
KRHSLMTQLFAVPVGCIHVVLYDGREKSPTSGRLAQVTLGRPDNYRLLRIPPQVWYGFAATGDTPAL
VANCTDIPHRQGESERAPQDAPFIPFSWAGADLSGTPVM
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111
>DM_train1755
DDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVVLEFPLQQMDSPLDSS
RYCALLLPLLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMAKVLMAFYQLEILAGETILS
WFSQRDTTDKGQQLRKNQQLQRFIQWLKEAEEESSEDD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11000000000000000000000000111111
>DM_train1756
MAHHHHHHMSDEDHDFSHQGGGDNASKTYPLAAGALKKGGYVCINGRPCKVIDLSVSKTGKHGHA
KVSIVATDIFTGNRLEDQAPSTHNVEVPFVKTYTYSVLDIQANEDPSLPAHLSLMDDEGESREDLDM
PPDPALATQIKEQFDSGKDVLVVVVSAMGTEQVLQTKNAAEK
11111111111111111111111110000000000000000000000000000001111000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001
>DM_train1757
GSQQIKDPLNYEVEPFTFQNQDGKNVSLESLKGEVWLADFIFTNCETICPPMTAHMTDLQKKLKAE
NIDVRIISFSVDPENDKPKQLKKFAANYPLSFDNWDFLTGYSQSEIEEFALKSFKAIVKKPEGEDQVIH
QSSFYLVGPDGKVLKDYNGVENTPYDDIISDVKSASTLK
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000010000000000000
00000000000000000000000000000000
>DM_train1758
AKALEQPFDVANIPGPKMATLLEKGKPVANMIKKAKRPLLIVGPDMTDEMFERVKKFVEKDITVVA
TGSAITRFIDAGLGEKVNYAVLHELTQFLLDPDWKGFDGQGNYDLVLMLGSIYYHGSQMLAAIKNFA
PHIRALAIDRYYHPNADMSFGNLWKKEEDYLKLLDEILAEL
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1759
EFMIIYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTEGNIDDSLIGGNASAEGPEGEGTESTVIT

GVDIVMNHHLQETSFTKEAYKKYIKDYMKSIKGKLEEQRPERVKPFMTGAAEQIKHILANFKNYQFF
IGENMNPDGMVALLDYREDGVTPYMIFFKDGLEMEKC
00000000000000000000000000000000000000001111111111111111111111111110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1760
MDINVVNALAYEDFVKLFGNVVEKCPLISAAIWSYRPFKDLADIEARISEFIHSLPDSGKEGILRCHPD
LAGRDLQSGTLTPESQEEQSQAGMTTLDSAEIVHMYRLNSEYKERFGFPFVICARLNNKADIVRQLS
ERLKNRRTAELECAIEEVKKICSLRLHSIVLSDIQTKL
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111111
>DM_train1762
MRIQEAIAQDKTISVIIDPSQIGSTEGKPLLSMKCNLYIHEILSRWKASLEAYHPELFLDTKKALFPLLL
QLRRNQLAPDLLISLATVLYHLQQPKEINLAVQSYMKLSIGNVAWPIGVTSVGIHARSAHSKIQGGRN
AANIMIDERTRLWITSIKRLITFEEWYTSNHDSLA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111111000
00000000000000000000000001111
>DM_train1763
MALVDGFLELERSSGKLEWSAILQKMASDLGFSKILFGLLPKDSQDYENAFIVGNYPAAWREHYDRA
GYARVDPTVSHCTQSVLPIFWEPSIYQTRKQHEFFEEASAAGLVYGLTMPLHGARGELGALSLSVEAE
NRAEANRFMESVLPTLWMLKDYALQSGAGLAFEHPVSK
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>DM_train1764
MCIIKPMDDVVKFIHEVGSLKLTPRSGWLKLGIRLPESVAEHNFRAAIIAFILALKSGESVEKACKAAT
AALFHDLHEARTMDLHKIARRYVSCDEEGAREEQLSWMESKPDFSDVEVYVSDADKLELAFQGVE
YSQQVSYAIRFAENVELKTDAAKEIYRVLMERKNPVWWR
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>DM_train1765
GHMGFFSRDIQTMEDLLLHGLRDIYYAEQQITKALPKMIEQATNRDLSQGLTSHLEETQKQIERLDQ
VFKKLGQKPSGVNCPAIDGLIKEADETAGEIADKTVLDAAIVANAQAVEHYEIARYGTLIAWAEELGH
DDIVRFLTTNLNEEKAANTKLNTVALRKGVNRKAASGS
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111111
>DM_train1766
MHHHHHHSSGRENLYFQGMSDSGSQLGSMGSLTMKSQLQITVISAKLKENKKNWFGPSPYVEVTV
DGQSKKTEKCNNTNSPKWKQPLTVIVTPVSKLHFRVWSHQTLKSDVLLGTAALDIYETLKSNNMKL
EEVVVTLQLGGDKEPTETIGDLSICLDGLQLESEVVTNGETT

11111111111111111111111111110000000000000000000011000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111111
>DM_train1767
SNAMRVIVTEYQPAWVEQFEEEAQALKQILKENCLKVEHIGSTSVPNLAAKPIIDFLVIVEEIEKVDLL
QWEFERIGYEYMGEFGLSGRRYLRKGPIKRTHHVHIYQFDNTQEILRHLAFRNYLRENPAIATTYGT
LKKQLAQAHPDSIDKYMDGKDAFIKKIEKEALKKYWE
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000011000000000000000000
>DM_train1768
SSKKYKLSEIHHLHPEYVRVSEHFKASMKNFKIEKIKKIENSELLDKFTWKKSQMKEEGKLLFYATSR
AYVESICSNNFDSFLHETHENKYGKGIYFAKDAIYSHKNCPYDAKNVVMFVAQVLVGKFIEGNITYTS
PPPQFDSCVDTRSNPSVFVIFQKDQVYPQYVIEYTED
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>DM_train1769
MGSQVQKSDEITFSDYLGLMTCVYEWADSYDSKDWDRLRKVIAPTLRIDYRSFLDKLWEAMPAEEF
VGMVSSKQVLGDPTLRTQHFIGGTRWEKVSEDEVIGYHQLRVPHQRYKDTTMKEVTMKGHAHSAN
LHWYKKIDGVWKFAGLKPDIRWGEFDFDRIAEDGRETFGDK
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000111111111111111111
>DM_train1770
GMNLQTDQTTTTADESAIRAFHRQMIDAWNRGSGEGFAAPFSETADFITFEGTHLKGRKEIAAFHQ
QAFDTVVKGTRLEGEVDFVRFVNSQLALMLVVIRVILPGQTETSASRDSLPLYVVTKGDEGWQIEGLL
NTRKLTLERQFFLDDFDSLSAEAQRQVTDLVASLKQSH
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001
>DM_train1771
GMSEALSDSGLPPVQRVVTGHDAHGRAVFKSEDVTPTRMIPSGDASFLLVWTTATVPADNNDETDG
RQREAGLTLDGGSVIRVVDMLPGKESPMHRTNSIDYGIVLEGEIELELDDGAKRTVRQGGIIVQRGTN
HLWRNTTDKPCRIAFILIEAPAYLHNGQPLPEDKPDHK
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000111111
>DM_train1772
MNLDNVTGGDNVPKEINVIIEISQNSCPVKYEFDKEKNLFCVDRFLPTSMYYPCNYGFIPHTCAGDG
DPVDVLVASRFPVMSGAVIRARPVGVLVMHDESGEDVKILAVPTHKVDQYYNNIKDYSDFPVSFLNSI
SHFFTFYKKLEEDKFVSVEGWKDVTVAEKLILSALIK
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011100000000000000000000000000000000000000

11111111000000000000000000011
>DM_train1773
MNPHPVEPRDQIAELLVESPLFSFNCAHFIAFKGFRETLHGHNYNVSLRLRGNIQGDGYVIDFSILKE
KVRKVCKQLDHHFILPMYSDVLNIQEVNDNFKITCEDNSEYSFPKRDCVQIPIKHSSTEEIGLYILNQL
IEEIDLPFLKTRSVNYMEVTVSESPSQKATVHRNI
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1774
EKEKKNVFMRTFEAISRNFSEIFAKLSPGGSARLILENPEDPFSGGLEIEAKPAGKDVKRIEAMSGGEK
ALTALAFVFAIQKFKPAPFYLFDEIDAHLDDANVKRVADLIKESSKESQFIVITLRDVMMANADKIIGV
SMRDGVSKVVSLSLEKAMKILEEIRKKQGWEHGN
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011
00000000000000000000000001111
>DM_train1775
LPPREDAARVARFVTHVSDWGALATISTLEAVRGRPFADVLSLSDGPPGAGSGVPYFYLSPLQLSVSN
LQENPYATLTMTLAQTNFCKKHGFDPQSPLCVHIMLSGTVTKVNETEMDIAKHSLFIRHPEMKTWP
SSHNWFFAKLNITNIWVLDYFGGPKIVTPEEYYNVTVQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011
>DM_train1776
QPQSGPQTGVVFRNTVTGEALDVSQGKEGGRDTPAVKKFLETGENLYIDDKSCLRNGESLFATSCSG
CHGHLAEGKLGPGLNDNYWTYPSNTTDVGLFATIFGGANGMMGPHNENLTPDEMLQTIAWIRHLY
TGPKQDAVWLNDEQKKAYTPYKQGEVIPKDAKGQCKPLDE
11111111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1777
SLEKQIESYYQEIAQLIIDMIPEEWAEVRFYAQEDHDGWKIFFFHYLSASSDEWTKDIDIRDVIKVPQ
DEFMEKYNELSFCISDFRKDYAEAFGEPWMSFQMTFYASGKFNIDFYYDKNPFDTFLTRLAWQYEH
FGTIPEDSFYKETLNEYLEEKAQGKRYPFLEPLKEEEG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000100
00000000000000000000000011111
>DM_train1778
SNAMNPFETKSVTFAEPIEMLYACHGKVRRFCGQVAMLSDYIAENGCNQIVLQTIRQIAQYFNVAAPL
HHEDEEENFFPLLLQYAPQAQESVDELLRQHIGLHDNWAAVSAEFAKLEADNAYVPDEEAFKRFVA
GYDVHLAIEEPLFDMGNTFIPKEKLTEIGEIMAARRRK
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1779

SKLQATKTLAADVIMRSPVSWKQELTLDAGRSKGASENMLAIANGGLIGSVSKVEENSTIVNLLTNTE
NADKISVKIQHGSTTIYGIIIGYDKENDVLKISQLNSNSDISAGDKVTTGGLGNFNVADIPVGEVVATTH
STDYLTREVTVKLSADTHNVDVIELVGNSKLVPR
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>DM_train1780
GMDAGRGAEHDEAVTSDDSASVEVPRRATPADAATVAQMLHDFNTEFGAPTPGTDELASRLSHLLA
GEDVVVLLAGEPPTGLAVLSFRPNVWYPGPVAILDELYVRPGRRGHRLGSALLAASCGLVRSRGGALL
EINVDGEDTDARRFYEARGFTNTEPNGTEPMLYYYREL
111111111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1781
GSHMNQCPEHSQLTTLGVDGKEFPEVHLGQWYFIAGAAPTKEELATFDPVDNIVFNMAAGSAPMQ
LHLRATIRMKDGLCVPRKWIYHLTEGSTDLRTEGRPDMKTELFSSSCPGGIMLNETGQGYQRFLLYN
RSPHPPEKCVEEFKSLTSCLDSKAFLLTPRNQEACELSNN
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001
>DM_train1782
APKDNTWYTGAKLGWSQYHDTGLINNNGPTHENKLGAGAFGGYQVNPYVGFEMGYDWLGRMPY
KGSVENGAYKAQGVQLTAKLGYPITDDLDIYTRLGGMVWRADTYSNVYGKNHDTGVSPVFAGGVEY
AITPEIATRLEYQWTNNIGDAHTIGTRPDNGMLSLGVSYRFG
000000000000000001111111111111000000000000000000000000000000011111110
000000000000000000000000000000000000000000000000000000000000000000000000
00011111111111111000000000000
>DM_train1783
SNSGEPAPVLSSPTPTDLSTFLSFPSPEKLLRLGPKVSVLIVQQTDTSDPEKVVSAFLKVASVFRDDAS
VKTAVLDAIDALMKKAFSCSSFNSNTFLTRLLIHMGLLKSEDKIKAIPSLHGPLMVLNHVVRQDYFPK
ALAPLLLAFVTKPNGALETCSFARHNLLQTLYNI
111111111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train1784
GAMGSMAEAEGESLESWLNKATNPSNRQEDWEYIIGFCDQINKELEGPQIAVRLLAHKIQSPQEWE
ALQALTVLEACMKNCGRRFHNEVGKFRFLNELIKVVSPKYLGDRVSEKVKTKVIELLYSWTMALPEE
AKIKDAYHMLKRQGIVQSDPPIPVDRTLIPSPPPRPKN
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111
>DM_train1785
AALGPSSQNVTEYVVRVPKNTTKKYNIMAFNAADKVNFATWNQARLERDLSNKKIYQEEEMPESG
AGSEFNRKLREEARRKKYGIVLKEFRPEDQPWLLRVNGKSGRKFKGIKKGGVTENTSYYIFTQCPDG

AFEAFPVHNWYNFTPLARHRTLTAEEAEEEWERRNKVLN
11111000000000000000000000000000000000000000000000000000001111111111
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111111111111111111
>DM_train1786
SYRSTQQITDFTKEILVNGEAVTAFDRQGDLPNVVVTPNFEAGVDQVVDQLAMNDSERDTTAIIGKS
LAECEALTKALKARGEQVTLIQTENQRLAPGVIVVPSFLAKGLEFDAVIVWNANQENYQREDERQLL
YTICSRAMHELTLVAVGSLSPLLARVNHALYTLNEAK
00000000000000000011111111000000000000000000000000000000000000000000
00000000000000000000100000000000000000000000000000000000000000000000
00000000000000000000000011
>DM_train1787
NQPDWADEAANGAHQDAWKSLKARVENVYYMVKATYKNDPVWGNDFTCVGVMANDVNEDEKSI
QAEFLFMNNADTNMQFATEKVTAVKMYGYNRENAFRYETEDGQVFTDVIAYSDDNCDVIYVPGTD
GNEEGYELWTTDYDNIPANCLNKFNEYAVGRETRDVFTSACLE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1788
SSQTSNFLAEQYERDRKAIINCCFSRPDHKTGEPPNNYITHVRIIEDSKFPSSRPPPDSKLENKKKRLL
ILSAKPNNAKLIQIHKARENSDGSFQIGRTWQLTELVRVEKDLEISEGFILTMSKKYYWETNSAKERT
VFIKSLITLYIQTFEGHVPELVNWDLSLFYLDER
11111000000000000000000001111111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1789
MKEQLYTGLTEKEANQMQALLLSNDVNVSKEMDKSGNMTLSVAAADFVRAITILNNNGFPKKKFA
DIEVIFPPSQLVASPSQENAKINYLKEQDIERLLSKIPGVIDCSVSLNVNNNESQPSSAAVLVISSPEVNL
APSVIQIKNLVKNSVDDLKLENISVVIKSSSGQDG
10000000000000000000000000000000000000000000000000000000000000000000
01111110000000000000000000000000000000001111110000000000000000000000
00000000000000000000000011111
>DM_train1790
GSMSLFPGDIEELARRIITDFTPLGLMVSTAESCTGGLIAGALTEIAGSSAVVDRGFVTYTNDAKRDML
GVGTETLTTFGAVSRQTALQMAHGALYRSRANFAVAVTGIAGPGGGSAEKPVGLVHLATKARNGNVL
HHEMRYGDIGRTEIRLATVRTALEMLIALNQAGSV
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>DM_train1791
MSLKTLDGKITRPTSDKVRGAIFNMIGPYFNGGRVLDLFAGSGGLAIEAVSRGMSAAVLVEKNRKAQ
AIIQDNIIMTKAENRFTLLKMEAERAIDCLTGRFDLVFLDPPYAKETIVATIEALAAKNLLSEQVMVVC
ETDKTVLLPKEIATLGIWKEKIYGISKVTVYVNEG
11111111111111111000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1792
GMGILSGNPQDEPLHYGEVFSTWTYLSTNNGLINGYRSFINHTGDEDLKNLIDEAIQAMQDENHQL
EELLRSNGVGLPPAPPDRPAARLDDIPVGARFNDPEISATISMDVAKGLVTCSQIIGQSIREDVALMFS
QFHMAKVQFGGKMLKLNKNKGWLIPPPLHSDRPIKE
11111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1793
GMKQPNYYQDVKQFHQTFHHPGADQPTAIPLDRGVKRATWTAEEAVVEFLHQSSQNETEFLAAIET
FKAGLDQAVKKSLKETYPVTEVERLVGQGDALTDALYFIMGSFVEAGLEPGPLFEIVQQANMAKLGP
DGQPIFRESDQKVMKPDGWLPPEPQLEAEVVRQMKEKA
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1794
MIIKDILRENQDFRFRDLSDLKHSPKLCIITCMDSRLIDLLERALGIGRGDAKVIKNAGNIVDDGVIRS
AAVAIYALGDNEIIIVGHTDCGMARLDEDLIVSRMRELGVEEEEVIENFSIDVLNPVGDEEENVIEGVKR
LKSSPLIPESIGVHGLIIDINTGRLKPLYLDE
00000000001111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1795
MEEPDANGYYYHDTFEGSVGQWTARGPAEVLLSGRTAYKGSESLLVRNRTAAWNGAQRALNPRTFV
PGNTYCFSVVASFIEGASSTTFCMKLQYVDGSGTQRYDTIDMKTVGPNQWVHLYNPQYRIPSDATDM
YVYVATADDTINFYIDEAIGAVAGTVIEGLEHHHHHH
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1796
MAKLGIHSNDTRDAWVNKIAQLNTLEKAAEMLKQFRMDHTTPFRNSYELDNDYLWIEAKLEEKVA
VLKARAFNEVDFRHKTAFGEDAKSVLDGTVAKMNAAKDKWEAEKIHIGFRQAYKPPIMPVNYFLD
GERQLGTRLMELRNLNYYDTPLEELRKQRGVRVVHLQSPH
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1797
GVPFFSCQRGYKGVWRGDGIMQTTCPCGAQITGHVKNGSMRIVGPRTCSNTWHGTFPINAYTTGPC
TPSPAPNYSRALWRVAAEEYVEVTRVGDFHYVTGMTTDNVKCPCQVPAPEFFTEVDGVRLHRYAPA
CKPLLREEVTFLVGLNQYLVGSQLPCEPEPDVAVLTSM
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

>DM_train1798
MNADEWMTTFRENIAQTWQQPEHYDLYIPAITWHARFAYDKEKTDRYNERPWGGGFGLSRWDEK
GNWHGLYAMAFKDSWNKWEPIAGYGWESTWRPLADENFHLGLGFTAGVTARDNWNYIPLPVLLP
LASVGYGPVTFQMTYIPGTYNNGNVYFAWMRFQFLEHHHHHH
11111110000000000000000000000000000001111111111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111
>DM_train1799
GMLKILATQFNGKLQTLTKQEDELFDVVRLLAQALVGQGKVYLDAYGEFEGLYPMLSDGPDQMKRV
TKIKDHKTLHAVDRVLIFTPDTERSDLLASLARYDAWHTPYSIITLGDVTETLERSIAPLALKFDKGLL
PAEDGSRHGLPSLALGAFLLTHILTQLQEMTEEWE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001
>DM_train1800
MSLKLISNDLRDGDKLPHRHVFNGMGYDGDNISPHLAWDDVPAGTKSFVVTCYDPDAPTGSGWW
HWVVVNLPADTRVLPQGFGSGLVAMPDGVLQTRTDFGKTGYDGAAPPKGETHRYIFTVHALDIERI
DVDEGASGAMVGFNVHFHSLASASITAMFSEGGSHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111
>DM_train1801
MSTTPIDAELDLMLKRELAVPVNLVWRGLTEPELLKKWFVPKPWSISDCRVDLRPGGEFYTVMQD
PEGNKFPNSGCFLEVTDEKRLIWTSALVKNYRPAVPATTSDKECAHIVMTAVIELQPTSSGTRYTACA
MHNTPGQRKLHEEMGFHEGWGTTITQLEELLKQEKAY
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111000000000000000000000000000000
00000000000000000000000000
>DM_train1802
GAMGPVDEQWIEILRIQALCARYCLTINTQDGEGWAGCFTEDGAFEFDGWVIRGRPALREYADAHA
RVVRGRHLTTDLLYEVDGDVATGRSASVVTLATAAGYKILGSGEYQDRLIKQDGQWRIAYRRLRNDR
LVSDPSVAVNVADADVAAVVGHLLAAARRLGTQMSDT
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111
>DM_train1803
MAARTDNSIVVNAPFELVWDVTNDIEAWPELFSEYAEAEILRQDGDGFDFRLKTRPDANGRVWEW
VSHRVPDKGSRTVRAHRVETGPFAYMNLHWTYRAVAGGTEMRWVQEFDMKPGAPFDNAHMTAH
LNTTTRANMERIKKIIEDRHREGQRTPASVLPTELHAQQLLL
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111
>DM_train1804
MDPSQTPDANASISVSYKCGVKDGTKNTIRATINIKNTGTTPVNLSDIKVRYWFTSDGNEQNNFVCD

YAAFGTDKVKGIVKKIENSVPGADTYCEISFTEDAGRLAPGGSTGTIPFRIEGAAEYDQTDDYSYNSE
MSDDFGDNTKITAYIKDKLKYGVEAAALEHHHHHH
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111
>DM_train1806
AAVILESIFLKRSQQKKKTSPLNFKKCLFLLTVHKLSYYEYDFERGRRGSKKGSIDVEKITCVETVVPE
KNPPPERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTEELRKRWIHQLKNVIRYNSDLV
QKYHPCFWIDGQYLCCSQTAKNAMGCQILEN
00000000000000000000000000000000000000000000000000000000000000000000
00000011111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1807
RNRIKKVTERLPLPPNARRVEDPEMNMSREVVEDPGVPGTQDVTFAVAEVNGVETGRLPVANVVV
TPAHEAVVRVGTKPGTEVPPVIDGSIWDAIAGCEAGGNWAINTGNGYYGGVQFDQGTWEANGGLRY
APRADLATREEQIAVAEVTRLRQGWGAWPVCAARAGAR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001100000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1808
SVLQAQMAAQQLPVIGGIAIPELGINLPIFKGLGNTELIYGAGTMKEEQVMGGENNYSLASHHIFGITG
SSQMLFSPLERAQNGMSIYLTDKEKIYEYIIKDVFTVAPERVDVIDDTAGLKEVTLVTCTDIEATERIIV
KGELKTEYDFDKAPADVLKAFNHSYNQVST
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1809
MGFEDGFYTILHLAEGQHPNSKIPGGMYASSKDGKDVPVTAEPLGPQSKIRWWIARDPQAGDDMYT
ITEFRIDNSIPGQWSRSPVETEVPVYLYDRIKAEETGYTCAWRIQPADHGADGVYHIVGNVRIGSTDW
ADLREEYGEPQVYMKPVPVIPNVYIPRWFILGYEE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train1810
KNASVITVGNEILKGRTVNTNAAFIGNFLTYHGYQVRRGFVVMDDLDEIGWAFRVALEVSDLVVSSG
GLGPTFDDMTVEGFAKCIGQDLRIDEDALAMIKKKYGQADLTPQRLKMAKIPPSCRPIENPVGTAPG
LICAVGGKKVIILPGVPKEMEALLKAMEKDIIIPD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111000000000000000000000000000000000
00000000000000000000000011
>DM_train1811
MARYINITLEKRGVTCKALLLDDVAPRTSKAVWDALPQSSQVFHGKYARNEIYNLVPAFAPKEPGAE
NTTVTPIPGDVCYFTFTSNDLKTPSHGYEADSGTDEVQTIVDLAVFYGRNNLLLNGDTGWVPGNVFA
TIVEGLDEMAAACQDIWMGGARDETLTFSRAEDTA

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111111111000000000000000000000000000000000000000
000000000000000000000000111
>DM_train1812
MGSDKIHHHHHHMIQSYPVERSRTIQTRLVLPPDTNHLGTIFGGKVLAYIDEIAALTAMKHANSAVV
TASIDSVDFKSSATVGDALELEGFVTHTGRTSMEVYVRVHSNNLLTGERTLTTESFLTMVAVDESGKP
KPVPQVEPQTEEEKRLYETAPARKENRKKRAALR
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001111
>DM_train1813
AKITKVQVGEALVGDGNEVAHIDLIIGPRGSPAETAFCNGLVNNKHGFTSLLAVIAPNLPCKPNTLMF
NKVTINDARQAVQMFGPAQHGVAMAVQDAVAEGIIPADEADDLYVLVGVFIHWEAADDAKIQKYNY
EATKLSIQRAVNGEPKASVVTEQRKSATHPFAANA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001
>DM_train1814
MGSDKIHHHHHHMIRPEYLRVLRKIYDRLKNEKVNWVVTGSLSFALQGVPVEVHDIDIQTDEEGAY
EIERIFSEFVSKKVRFSSTEKICSHFGELIIDGIKVEIMGDIRKRLEDGTWEDPVDLNKYKRFVETHGM
KIPVLSLEYEYQAYLKLGRVEKAETLRKWLNERK
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000
>DM_train1815
GPAQLVGRQTLATPAMGDIQIGMEDKKGQLEVEVIRARSLTQKPGSKSTPAPYVKVYLLENGACIAKK
KTRIARKTLDPLYQQSLVFDESPQGKVLQVIVWGDYGRMDHKCFMGVAQILLEELDLSSMVIGWYKL
FPPSSLVDPTLAPLTRRASQSSLESSSGPPCIRS
00000000011111000000000000000011100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000111111111111111111111
>DM_train1816
ASVRIREAKEGDCGDILRLIRELAEFEKLSDQVKISEEALRADGFGDNPFYHCLVAEILPAPGKLLGPC
VVGYGIYYFIYSTWKGRTIYLEDIYVMPEYRGQGIGSKIIKKVAEVALDKGCSQFRLAVLDWNQRAMD
LYKALGAQDLTEAEGWHFFCFQGEATRKLAGK
10000000000000000000000000000011110000000000000000000000000111111100000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001
>DM_train1817
GLFDKLKSLVSDDKKDTGTIEIIAPLSGEIVNIEDVPDVVFAEKIVGDGIAIKPTGNKMVAPVDGTIGKI
FETNHAFSIESDSGVELFVHFGIDTVELKGEGFKRIAEEGQRVKVGDTVIEFDLPLLEEKAKSTLTPVV
ISNMDEIKELIKLSGSVTVGETPVIRIKK
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000
>DM_train1818
MKVIEFHVVGNSLNQKPNKKILMWLVGLQNVFSHQLPRMPKEYITRLVFDPKHKTLALIKDGRVIG
GICFRMFPSQGFTEIVFCAVTSNEQVKGYGTHLMNHLKEYHIKHDILNFLTYADEYAIGYFKKQGFSK
EIKIPKTKYVGYIKDYEGATLMGCELNPRIPYTE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111111
>DM_train1819
MLRSSNDVTQQGSRPKTKLGGSSMGIIRTCRLGPDQVKSMRAALDLFGREFGDVATYSQHQPDSDYL
GNLLRSKTFIALAAFDQEAVVGALAAYVLPKFEQPRSEIYIYDLAVSGEHRRQGIATALINLLKHEANA
LGAYVIYVQADYGDDPAVALYTKLGIREEVMH
111111111111111111111110000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000011111111
>DM_train1820
LLKLEKELLKQIKLDPSPQTIYKWIKDNISPKLHVDKGFVNILMTSFLQYISSEVNPPSDETDSSSAPS
KEQLEQEKQLLLSFKPVMQKFLHDHVDLQVSALYALQVHCYNSNFPKGMLLRFFVHFYDMEIIEEEA
FLAWKEDITQEFPGKGKALFQVNQWLTWLETA
000000000000000000000000000000000000000000000000000000000011111111100000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000011
>DM_train1822
MFIKAERLLIRKFEFKDWEAVHEYTSDSDVMKYIPEGVFTEEDTRNFVNKNMGENAKNFPVILIGE
NILVGHIVFHKYFGEHTYEIGWVFNPKYFNKGYASEAAQATLKYGFKEMKLHRIIATCQPENTPSYRV
MEKIGMRREGYFKKCIPHGNEWWDEYYYAILEEE
000000000000000000000000000000000000000000000000000110000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1823
MIDEPTGLYNRLRLQEDVSLRLQRDGALTVIAADLLPLALLNTIIRTLGYPFSNDLMLEARDRIRAEL
PDFTLYKISPTRFGLLLPRQQQEETESVCLRLLRAFESPVVCRGIPIKANVGLGVLPLADDTLDGDQD
WLRLVVSAADDARDRGVGWARYNPPLDQAQQR
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train1824
MVRYPLEPVLSIKKDRVDRAEKVVKEKRRLLELEQEKLRERESERDKVKNHYMQKIRQLREQLDDG
TTSDAILKMKAYIKVVAIQLSEEEEKVNKQKENVLAASKELERAEVELTKRRKEEEKTRLHKEEWM
KEALKEEARQEEKEQDEMGQLLHQLHKQKQRESGEN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111111
>DM_train1825

MSLVEKQSALESKARSWLIERGVEIDDIAELVLFLQQKYHPGLELDICRQNVEHVLRKREVQNAVLTG
IQLDVMAEKGELVQPLQNIISADEGLYGVDEILALSIVNVYGSIGFTNYGYIDKVKPGILAKLNEHDGIA
VHTFLDDIVGAIAAAAASRLAHSYHDDIVN
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111
>DM_train1826
MALLWQLARNAEGDDPTNLESALIGKPVPKFRLESLDNPGQFYQADVLTQGKPVLLNVWATWCPT
CRAEHQYLNQLSAQGIRVVGMNYKDDRQKAISWLKELGNPYALSLFDGDGMLGLDLGVYGAPETFL
IDGNGIIRYRHAGDLNPRVWEEEIKPLWEKYSKEAAQ
11111111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train1827
MSLAEVGSKSVLFVCLGNICRSPIAEAVFRKLVTDEKVSDNWAIDSSAVSDWNVGRPPDPRAVSCLR
NHGISTAHKARQITKEDFATFDYILCMDESNLRDLNRKSNQVKNCKAKIELLGSYDPQKQLIIEDPYY
GNDSDFEVVYQQCLRCCKAFLEKTYEGHHHHHH
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111
>DM_train1828
DIEQKQAEIIDQLVKRASTCKSEALGPLIIEATSHPSLFAFSEILALPNVAQLEGTTDSVYLDLLRLFAH
GTWGDYKCNATRLPHLSPDQILKLKQLTVLTLAESNKVLPYDTLMVELDVSNVRELEDFLINECMYA
GIVRGKLDQLKRCFEVPFAAGRDLRPGQLGN
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111
>DM_train1829
MSNMQLDTLRRIVQEINSSVSLHDSLDIMVNQVADAMKVDVCSIYLLDERNQRYLLMASKGLNPESV
GHVSLQLSEGLVGLVGQREEIVNLENASKHERFAYLPETGEEIYNSFLGVPVMYRRKVMGVLVVQNK
QPQDFSEAAESFLVTLCAQLSGVIAHAHAVGNID
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111110000000000000000000000000000000000000
00000000000000000000001
>DM_train1830
MELTLYNGEKKTFYSRPNNHDNAWLNAILQLFRYVEEPFFDWVYSSPENLTLEAIKQLEDLTGLELH
EGGPPALVIWNIKHLLHTGIGTASRPSEVCVVDGTDMSLADFHAGIFLKGQEHAVFACVTSNGWYAI
DDEDFYPWTPDPSDVLVFVPYDQEPLNGEWKAK
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111111
>DM_train1831
KPGAMYRNSSKPAYTRREYISGIPGKKIAQFDMGNNGAGPTYPAQVELVVEKPVQIRHNALEAARVA
ANRYVQNSGAAANYKFRIRKFPFHVIRENKAAAAAAAAAAADGMRAPFGKPVGTAARVHGANHIFI

AWVNPDPNVEEAWRRAKMKVTPTINIDSSPAGNA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111000000000000000000000000000000000
000000000000000000000000
>DM_train1833
MASYAELFDIGEDFAAFVGHGLATEQGAVARFRQKLESNGLPSALTERLQRIERRYRLLVAGEMWCP
DCQINLAALDFAQRLQPNIELAIISKGRAEDDLRQRLALERIAIPLVLVLDEEFNLLGRFVERPQAVLD
GGPQALAAYKAGDYLEHAIGDVLAIIEGAAR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train1834
SNAMTFNQEQDYWAGYKANERALIIQTWSGFGRYAPDHLYPPHILPLDTDNETLGTTVLQALANSR
TFVYDSPEDQDFFDTEKIRQRYEDWVAKLCGNLGYKTRRALFKNMMSVDIWLHNGCLKISPSRHV
KLEAWDAIDADDVILSLDNSPEEIGAGLKLALSRCR
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1835
MMFLRQEDFATVVRSTPLVSLDFIVENSRGEFLLGKRTNRPAQGYWFVPGGRVQKDETLEAAFERLT
MAELGLRLPITAGQFYGVWQHFYDDNFSGTDFTTHYVVLGFRFRVAEEELLLPDEQHDDYRWLTPD
ALLASENVHANSRVYFNNDPRAIIGLNKKEVKNV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000011111111111111111
>DM_train1836
GSHGMADEEKLPPGWEKAMSRSSGRVYYFNHITNASQWERPSGNSSSGGKNGQGEPARVRCSHLL
VKHSQSRRPSSWRQEKITRTKEEALELINGYIQKIKSGEEDFESLASQFSDCSSAKARGDLGAFSRGQ
MQKPFEDASFALRTGEMSGPVFTDSGIHIILRTE
11111111110000000000000000000000000000001111111111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1837
MGMIGYFAEIDSEKINQLLESTEKPLMDNIHDTLSGLRRLDIDKRWDFLHFGLTGTSAFDPAKNDPL
SRAVLGEHSLEDGIDGFLGLTWNQELAATIDRLESLDRNELRKQFSIKRLNEMEIYPGVTFSEELEGQ
LFASIMLDMEKLISAYRRMLRQGNHALTVIVG
11000000000000000001111111111000000000000000000000000000000000000000
00000011111100000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train1838
MKGLTEKLMILSHQSIKNLLGKVILNYSEENVRENGYDLRICGDKYYELVQGAELPEKKATLREIEFK
ERAILSANHTYLFESCEEFNMPADLAVLITLKSTLARNGFLAPPTVIDAGYKGKVNVAITAVYNSSLKK
GMATHHLIFLKLDKPTERLYNGKYQGGILI
11111111000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train1839
MADEATRRVVSEIPVLKTNAGPRDRELWVQRLKEEYQSLIRYVENNKNADNDWFRLESNKEGTRW
FGKCWYIHDLLKYEFDIEFDIPITYPTTAPEIAVPELDGKTAKMYRGGKICLTDHFKPLWARNVPKFG
LAHLMALGLGPWLAVEIPDLIQKGVIQHKEKCNQ
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train1842
GAMDPREVILCKDQDGKIGLRLKSIDNGIFVQLVQANSPASLVGLRFGDQVLQINGENCAGWSSDKA
HKVLKQAFGEKITMTIRDRPFERTITMHKDSTGHVGFIFKNGKITSIVKDSSAARNGLLTEHNICEIN
GQNVIGLKDSQIADILSTSGTVVTITIMPAF
111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train1843
FSDETLDKVPKSEGYCSRILRAQGTRREGYTEFSLRVEGDPDFYKPGTSYRVTLSAAPPSYFRGFTLIA
LRENREGDKEEDHAGTFQIIDEEETQFMSNCPVAVTESTPRRRTRIQVFWIAPPAGTGCVILKASIVQ
KRIIYFQDEGSLTKKLCEQDSTFDGVTDK
111111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
011111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000111111111
>DM_train1844
MATASHNIDDILQLKDDTGVITVTADNYPLLSRGVPGYFNILYITMRGTNSNGMSCQLCHDFEKTYH
AVADVIRSQAPQSLNLFFTVDVNEVPQLVKDLKLQNVPHLVVYPPAESNKQSQFEWKTSPFYQYSLV
PENAENTLQFGDFLAKILNISITVPQAFNVQE
111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111
>DM_train1845
MAMSRKRVRAEDIHYWLLKSEPHKFSIDDLAKQKTSPWDGVRNYAARNNMRAMSVGDKVLFYHS
NTKEPGVAGLAEVVRLAYDDFTALDKTSEYFDPKATKEKNPWKMVDVKFVARWDTVLTLHELKSR
RELQKMALFTQRRLSVQPVSASEYAYILRMNEEQQRK
111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001
>DM_train1846
MSKNIGLNAIEMSYLRQSLSLSAAQVGQLTNHSEAEVLAWENAETQAPELAQKKLLDIDDIIEMQVL
NTTDGIEALFKKEPKRHLAFVVYPTQAIYTQYNPEFLSSLPLTELYNTAAWRIKKECKLVLEVDVSLIN
LNVEAYKAYREQNGLSESRESRAKWAATQL
111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000

>DM_train1847
MSGELRVRRASSWELDLILKEAEKYGELLHEFFCVVEGKYRDVYAVNEEVWKIIEDINMRPYSLGTF
VGTIRVDENLVEKFYPNLEFFSLIKLEKNYVILGPKASFLFTTGKDAPKEAVREIKWQGSKRVVVLND
LGDIIGIGLINPKSDRRFIKNLKDVGEFLRR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111
>DM_train1848
MAQEDVTAVATNGAGPVETHLVFTEFKQMLLVEAQKVGDAVTFYKSAFGAIESGHSLYPKRKLDQEL
PHVLSSELNLAGSSFVVCDVSSLPGFSTAKSEGSGVTFLLGTKDAEAAVAKAVDAGAVKVEVTEAEVE
LGFKGKVTDPFGVTWIFAEKKTVITDENKEV
11111111111111111110000000000000000000000000000001111111111111110000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111111111111
>DM_train1849
TPEKEPLKPGDILVYAQGGGEPKPIRLEELKPGDPFVLAYPMDPKTKVVKSGEAKNTLLVARFDPEEL
APEVAQHAAEGVVAYSAVCTHLGCIVSQWVADEEAALCPCHGGVYDLRHGAQVIAGPPPRPVPQLPV
RVEDGVLVAAGEFLGPVGVQASAGAYTWRV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111111
>DM_train1850
CDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVLHEMIQQIFNLF
STKDSSAAWDETLLDKFYTELYQQLNDLEACVIQGVGVTETPLMNEDSILAVRKYFQRITLYLKEKK
YSPCAWEVVRAEIMRSFSLSTNLQESLRSKE
11111111100000000000000000000000000000001111111100000000000000000000
00000000000000000000011111111111111111100000000000000000000000000000
00000000000000111111111
>DM_train1852
MNAEINPLHAYFKLPNTVSLVAGSSEGETPLNAFDGALLNAGIGNVALIRISSIMPPEAEIVPLPKLPM
GALVPTAYGYIISDVPGETISAAISVAIPKDKSLCGLIMEYEGKCSKKEAEKTVREMAKIGFEMRGWEL
DRIESIAVEHTVEKLGCAFAAAALWYK
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1853
MPIGHSREVLVRLRDILALLADGCKTTSLIQQRLGLSHGRAKALIYVLEKEGRVTRVAFGNVALVCLS
MDQYRQLVDGMIREVERLVTTNKLKFISPPRLHDLIIKDPQARKFFSSIIPIAHRTAIILSFLNHLLKMI
YGEPYVKTDETVYLTANRKVHIEPPAK
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111
>DM_train1854
FELPSVPFPAPGSDEILFVVRDTTFNTNAPVNVEVSDFWTNRNVKRKPYKDVYGQSVFTTSGTKWL

TSYMTVNINDKDYTMAAVSGYKHGHSAVFVKSDQVQLQHSYDSVASFVGEDEDSIPSKMYLDETPE
YFVNVEAYESGSGNILVMCISNKESFFECKHQQ
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1855
MSLLTEVETYVLSIIPSGPLKAEIAQRLEDVFAGKNTDLEVLMEWLKTRPILSPLTKGILGFVFTLTVP
SERGLQRRRFVQNALNGNGDPNNMDKAVKLYRKLKREITFHGAKEISLSYSAGALASCMGLIYNRM
GAVTTEVAFGLVCATCEQIADSQHRSHRQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111
>DM_train1856
MRRFLALLLVLTLWLGFTPLASADVAGLVPCKDSPAFQKRAAAAVNTTADPASGQKRFERYSQALCG
EDGLPHLVVDGRLSRAGDFLIPSVLFLYIAGWIGWVGRAYLIAVRNSGEANEKEIIIDVPLAIKCMLTGF
AWPLAALKELASGELTAKDNEITVSPR
11111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1857
LGSMESTQQMAVSIINSSFEAAVVAATSALENMGIEYDYQDIYSRVKNKFDFVMDDSGVKNNPIGKAI
TIDQALNNKFGSAIRNRNWLADTSRPAKLDEDVNKLRMMLSSKGIDQKMRVLNACFSVKRIPGKSS
SIIKCTKLMRDKLERGEVEVDDSFVDEKME
00000000000000000000000000000000000000000000000000000000000000000000
00001111111111111110000000000000000000000000000000000000000000000000
00000000000111111111111
>DM_train1858
GPGRGFGKRRHPKKLTPLAYKQFIPNVAEKTLGASGRYEGKITRNSERFKELTPNYNPDIIFKDEENT
GADRLMTQRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSDRDRS
KYGMLARLAVEAGFDWVYYESKAHIHCSVKAE
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train1859
GMKTIDLADIQAFLYRESRLLDDKAWDAWLDCYRADAVFWMPSWDDADALVTDPQREISLIYYPN
RQGLEDRVFRIKTERSSATVPDTRTSHNIANVERESADGDVHTVRFNWHTLSYRYKTVSSYFGMSRY
AIDFSGDAPKIVSKYVVLKNDYINQLIDIYHI
10000000000000000000000000000000000000000000011111111111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011100000000
>DM_train1860
MELYLIRHGIAEAQKTGIKDEERELTQEGKQKTEKVAYRLVKLGRQFDLIVTSPLIRARQTAEILLASG
LSCQLEESNHLAPNGNIFNWLDYWLKPKNFPENAQIAIVGHEPCLSNWTEILLWGEAKDSLVLKKA
GMIGLKLPEIGSPVGRSQMFWLTPPRYLL

0000000000000011110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>DM_train1861
MGSDKIHHHHHHMRKAWVKTLALDRVSNTPVVILGIEGTNRVLPIWIGACEGHALALAMEKMEFP
RPLTHDLLLSVLESLEARVDKVIIHSLKDNTFYATLVIRDLTYTDEEDEEAALIDIDSRPSDAIILAVKT
GAPIFVSDNLVEKHSIELEVNERDLINSR
1111111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111100000000000000000000000000000
0000000000111111111111
>DM_train1862
MARRILSVLLENESGALSRVIGLFSQRGYNIESLTVAPTDDPTLSRMTIQTVGDEKVLEQIEKQLHKLV
DVLRVSELGQGAHVEREIMLVKIQASGYGRDEVKRNTEIFRGQIIDVTPSLYTVQLAGTSGKLDAFLAS
IRDVAKIVEVARSGVVGLSRGDKIMR
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000011111
>DM_train1863
GSHMSPKIVDAGTATVPHTMSTMKTADNRPASVYLKKDKPTLIKFWASWCPLCLSELGQAEKWAQ
DAKFSSANLITVASPGFLHEKKDGEFQKWYAGLNYPKLPVVTDNGGTIAQNLNISVYPSWALIGKDG
DVQRIVKGSINEAQALALIRNPNADLGSLKHS
1111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>DM_train1864
GILAEAHGTRPDLTDQPLPDADHTWYTDGSSLLQEGQRKAGAAVTTETEVIWAKALPAGTSAQRAE
LIALTQALKMAEGKKLNVYTDSRYAFATAHLTSEGKEIKNKDEILALLKALFLPKRLSIIHCPGHQKGH
SAEARGNRMADQAARKAAITETPDTSTLL
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000111110000000000
0000000000000000000111
>DM_train1865
GEFETLEQLKESLKKEGKEIYDVEMKESMREQLLEKLPEIVEIEISDRTLEILVNEAINRLKREGRYEQ
IVSSYESEEKFREELKERILDDIKRDRVIEVLAQEKGISVNDEELEKEAEELAPFWGISPDRAKSLVKA
RQDLREELRWAILKRKVLDLLLQEVE
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>DM_train1866
PRILGRNIGSHHVRVEHFMNHSITTLAKDTPLEEVVKVVTSTDVTEYPLVESTESQILVGIVQRAQLV
QALQAEPPSRAPGHQQCLQDILARGCPTEPVTLTLFSETTLHQAQNLFKLLNLQSLFVTSRGRAVGC
VSWVEMKKAISNLTNPPAPKEFLEVLFQG
1111111110000000000000000000000000000000000000000000000000000000000000
0011111110000000000000000000000000000000000000000000000000000000000000

00000000000000000111
>DM_train1867
MFHILRLESTVDLSEPLKDNGIIVFQSDKLDLEPSPNLGPTGIDNTNVNLINAKGDVLLHIGIRRREN
AFVFNSIPYGESRGPEERIPLEGTFGDRRDPSITIFDHPDRYQIMIDYKTVYYYKKRLEGRCEKVSYKI
NEGQTPPFSDVLGVTVLYFANVMPRAN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111
>DM_train1868
LPLDERAFEKTLTPIIQEYFEHGDTNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSKLL
SDLCGTVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYIDSYKGTVDCVQA
RAALDKATVLLSMSKGGKRKDSVWGSGGG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000011111111111111
>DM_train1869
MGGSHHHHHHGMASSSDGHNGLGKGFGDHIHWRTLEDGKKEAAASGLPLMVIIHKSWCGACKAL
KPKFAESTEISELSHNFVMVNLEDEEEPKDEDFSPDGGYIPRILFLDPSGKVHPEIINENGNPSYKYFY
VSAEQVVQGMKEAQERLTGDAFRKKHLEDEL
111111111111111111110000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111
>DM_train1870
MTVNLEEKRPEIVGPEKVQSPYPIRFEGKVVHGFGRGSKELGIPTANISEDAIQELLRYRDSGVYFGYA
MVQKRVFPMVMSVGWNPYYKNKLRSAEVHLIERQGEDFYEEIMRVIVLGYIRPELNYAGLDKLIEDI
HTDIRVALNSMDRPSYSSYKKDPFFKV
111111111000000000000000000000000000000000000000000000000000000000000000
000000000001111111111100000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1871
GSREEPSDLEELEQFAKTFKQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLK
PLLEKWLNDAENLSSDSSLSSPSALNSPGIEGLSRRRKKRTSIETNIRVALEKSFLENQKPTSEEITMI
ADQLNMEKEVIRVWFCNRRQKEKRINP
111111100000000000000000000000000000000000000000000000000000000000000000
000000011111111111111111111111110000000000000000000000000000000000000000
00000000000000000000
>DM_train1872
MTNNDTTLQLSSVLNRECTRSRVHCQSKKRALEIISELAAKQLSLPPQVVFEAILTREKMGSTGIGNG
IAIPHGKLEEDTLRAVGVFVQLETPIAFDAIDNQPVDLLFALLVPADQTKTHLHTLSLVAKRLADKTIC
RRLRAAQSDEELYQIITDTEGTPDEA
111111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111
>DM_train1873

GMSVAAEVAQVAQSAIDDFNAAYGLCLDDDRLEQWPTLFVDDCLYQVIARENVDNGLPAAVMYCDS
KGMLADRVVALRKANVFPEHFNRHLIGRAVITGVEGDQVSAEASYVVFQTRNDGETRIYNAGKYVD
RFDLSGGTVRLKSRTCIYDTLRIATLLATPI
11111100000000000000000000000000000000000000000000000000000000000000
00000000001111000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1874
GMLDNAIPQGFEDAVELRRKNRETVVKYMNTKGQDRLRRHELFVEDGCGGLWTTDTGSPIVIRGK
DKLAEHAVWSLKCFPDWEWYNIKVFETDDPNHFWVECDGHGKILFPGYPEGYYENHFLHSFELDD
GKIKRNREFMNVFQQLRALSIPVPQIKREGIPT
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1875
QSRERLVKWLQDAYAMEKEAETMMAAMASRIEHYPELKRRIEQHVEETQQQSAGVQRCLELLNGSI
PTAKGMLSSVLASMHAAGNSMMTDEVTKGVGISYAFEHLEIASYRALVVAARSAGEQEVAQICEDILQ
QEIEMAEWLIEHQEAIVVAFLEREQLEGV
00000000000000000000000000000000000000000000000000000000000000000011
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000111
>DM_train1876
GHMNSKNTICLWYDSAALEAATFYAETFPDSAVLAVHRAPGDYPSGKEGDVLTVEFRVMGIPCLGLN
GGPAFRHSEAFSFQVATDDQAETDRLWNAIVDNGGEESACGWCRDKWGISWQITPRVLSEAIASPD
RAAARRAFEAMMTMGRIDIATIEKAFKGGS
11110000000000000000000000000000000001111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111
>DM_train1877
MSLRVRIAVIGKLDGFIKEGIKHYEKFLRRFCKPEVLEIKRVHRGSIEEIVRKETEDLTNRILPGSFVMV
MDKRGEEVSSEEFADFLKDLEMKGKDITILIGGPYGLNEEIFAKAHRVFSLSKMTFTHGMTVLIVLEQ
IFRAFKIIHGENYHYEGGSHHHHHH
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111
>DM_train1878
GMTLPPYHTPLPAETLRALSIPAPWTFGLADRVRFGELDAIGHVNHTAYLRWYESFRLPFLKARHVT
DYGPTSPRLVLKQVHCTYLAEMGMGEDYVITGRVSNFRTTSFTMEFACWRLGDAVECTSEGSAVVVL
LNRDGSGRYPIPEAGRASFVTEDGVLAAG
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train1879
GMAFMEKIFPDILEAIRNEEIIKESKKIPMPYFGLFALVIFDKVKELGSETSLYEIGEEFGKMLSPKNIE
ELKKIFKLMNFGDLEIDENKILLKNPPYKIKLSNPPYQWVSKEEPIHDFIAGILAGCLEEIFYYYFVVN

EVECVSQGKDKCVFEVKEVDELNK
00000000000000000000000000000000000000000000011000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111
>DM_train1880
ATPAAQASDDRYEVTQQRNPDAACLDCHKPDTEGMHGKHASVINPNNKLPVTCTNCHGQPSPQHR
EGVKDVMRFNEPMYKVGEQNSVCMSCHLPEQLQKAFWPHDVHVTKVACASCHSLHPQQDTMQTL
SDKGRIKICVDCHSDQRTNPNFNPASVPLLKEQP
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000111
>DM_train1881
KHHHHHHIKPGALCVIDTPEGKGTGFFSGNDIVTAAHVVGNNTFVNVCYEGLMYEAKVRYMPEKDI
AFITCPGDLHPTARLKLSKNPDYSCVTVMAYVNEDLVVSTAAAMVYGNTLSYAVRTQDGMSGAPVC
DKYCRVLAVHQTNTGYTGGAVIIDPTDFHPV
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001
>DM_train1882
MSVMYKKILYPTDFSETAEIALKHVKAFKTLKAEEVILLHVIDEREIKKRDIFSLLLGVAGLNKSVEEF
ENELKNKLTEEAKNKMENIKKELEDVGFKVKDIIVVGIPHEEIVKIAEDEGVDIIIMGSHGKTNLKEIL
LGSVTENVIKKSNKPVLVVKRKNS
00000000000000000000000000000000000000000000000011111111111111111000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1883
MPETDFEEKMILIRRTARMQAGGRRFRFGALVVVGDRQGRVGLGFGKAPEVPLAVQKAGYYARRNM
VEVPLQNGTIPHEIEVEFGASKIVLKPAAPGTGVIAGAVPRAILELAGVTDILTKELGSRNPINIAYATM
EALRQLRTKADVERLRKGEAHAQAQG
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111
>DM_train1884
LSSPADSYNEGVKLQPQEISPPPTANLDRSNDKVYENVTGLVKAVIEMSSKIQPAPPEEYVPMVKEVG
LALRTLLATVDETIPLLPASTHREIEMAQKLLNSDLGELINKMKLAQQYVMTSLQQEYKKQMLTAAH
ALAVDAKNLLDVIDQARLKMLGQTRPH
11111111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1885
MSEQAPAPKRGRRFKEQTPVQRALGLLVHREHSKKELNRKLQARGIEPEAAQAAVERLAGEGWQD
DVRFAASVVRNRASSGYGPLHIRAELGTHGLDSDAVSAAMATFEGDWTENALDLIRRRFGEDGPVD
LAQRRKAADLLARRGFDGNSIRLATRFDLED
11111111111111100000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111
>DM_train1886
LIEGSERLSGLTDVDEVIKDLSRLLRKLVKTRWIAVYFFDRERRDFAPARSTGLPASFLPVFREMPLAP
DKIPLLKSMLRKRQHLMLTDPGSSDLLTPKLRKLLRNLCVLAVPMVVRTQVIGAVFMARTRDNPPFS
DAETAIIRDLVSHAALVVSHMQLFDE
1111111000000000000000000000000000000001110000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1887
MDFRIGQGYDVHQLVPGRPLIIGGVTIPYERGLLGHSDADVLLHAITDALFGAAALGDIGRHFSDTDP
RFKGADSRALLRECASRVAQAGFAIRNVDSTIIAQAPKLAPHIDAMRANIAADLDLPLDRVNVKAKT
NEKLGYLGRGEGIEAQAAALVVREAAA
0000000000000001111000000001111000110000000000000000000000000000111100
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111
>DM_train1888
MPKSEIRKLLQEIKKQVDNPGNSSTTEIKKMASEAGIDEQTAEEIYHLLTEFYQAVEEHGGIEKYMHS
NISWLKIELELLSACYQIAILEDMKVLDISEMLSLNDLRIFPKTPSQLQNTYYKLKKELIQVEDIPKNK
PGRKRKTQKNTKKEKTNIFGKVVPA
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
01111111111111111111
>DM_train1889
EDYSVVNRFESHGGGWGYSAHSVEAIRFSADTDILLGGLGLFGGRGEYTAKIKLFELGPDGGDHETD
GDLLAETDVLAYDCAAREKYAMMFDEPVLLQAGWWYVAWARVSGPSSDCGSHGQASITTDDGVIF
QFKSSKKSNNGTDVNAGQIPQLLYRLPTSD
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111
>DM_train1890
PRAAGHSEEVLEREASFSLTTIDGEVISLNNVGGDVVILWFMAAWCPSCVYMADLLDRLTEKYREIS
VIAIDFWTAEALKALGLNKPGYPPPDTPEMFRKFIANYGDPSWIMVMDDGSLVEKFNVRSIDYIVIM
DKSSNVLYAGTTPSLGELESVIKSVQGG
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111
>DM_train1891
GMGGSNMKLDFSVAVHSILYLDAHRDSKVASRELAQSLHLNPVMIRNILSVLHKHGYLTGTVGKNGG
YQLDLALADMNLGDLYDLTIPPTISYARFITGPSKTDEQADQSPIAANISETLTDLFTVADRQYRAYYH
QFTMADLQADLNHHGTFLQHEQDSES
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000111100000000000000000000000000000000000
00000000000000000001

>DM_train1892
GMDTRKLLLTAQEISRMKGEHKVHFLNPGAVRVNKSLGDAVGLRHMGIHLIQIEPGKESTEYHLHHY
EEEAVYVLSGKGTLTMENDQYPIAPGDFVGFPCHAAAHSISNDGTETLVCLVIGQRLDQDVVDYPNQ
HKRLYRNNGEWNLVDMADIRVLREPTQK
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111
>DM_train1893
TDVNECLDPTTCISGNCVNTPGSYICDCPPDFELNPTRVGCVDTRSGNCYLDIRPRGDNGDTACSNEI
GVGVSKASCCCSLGKAWGTPCEMCPAVNTSEYKILCPGGEGFRPNPITVILEDIDECQELPGLCQGGK
CINTFGSFQCRCPTGYYLNEDTRVCD
00000000000000000000000000000000000000000000000000011111111100000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1894
ASDEEIQDVSGTWYLKAMTVDREFPEMNLESVTPMTLTTLEGGNLEAKVTMLISGRCQEVKAVLEK
TDEPGKYTADGGKHVAYIIRSHVKDHYIFYSEGELHGKPVRGVKLVGRDPKNNLEALEDFEKAAGAR
GLSTESILIPRQSETCSPGSAWSHPQFEK
11111110000000000000111111100000000000000000000000110000000000000000
00000000000000000000000000000110000000000000000000000000000000000000
00001111111111111111
>DM_train1895
MSFGGKSMSEHSAIVTWKRKDSEAFTDNQYSRAHTWEFDGGSKILASASPHVVPVPLSVEANVDPE
EAFVAALSSCHMLVFLSIAAKQRYLVESYTDNAVGILGKNSKGKTSVTKVVLRPQVVFSGTSKPTLQQ
LEKMHHLAHENCFIANSVETEVVTEIIA
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train1896
VKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMKKIQDCYVENGLISRVLDGLVMTTIS
SSKDCMGEAVQNTVEDLKLNTLGREICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENARILKN
CVDAKMTEEDKENALSLLDKIYTSPLC
11110000000000000000000000000000000000000000000000000000000000000000
00111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1897
MTSSEPAHGATPKRSPSEGSADNAALCDALAVEHATIYGYGIVSALSPPGVNFLVADALKQHRHRRD
DVIVMLSARGVTAPIAAAGYQLPMQVSSAADAARLAVRMENDGATAWRAVVEHAETADDRVFASTA
LTESAVMATRWNRVLGAWPITAAFPGGDE
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111
>DM_train1898
GPMPQLTLDKTDIKILQVLQENGRLTNVELSERVALSPSPCLRRLKQLEDAGIVRQYAALLSPESVNLG

LQAFIRVSIRKAKDAREDFAASVRKWPEVLSCFALTGETDYLLQAFFTDMNAFSHFVLDTLLSHHGV
QDAQSSFVLKEIKHTTSLPLNHLLKE
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>DM_train1899
MTDVIKPDYLEYDDLLDRDEMFTILEEYFMYRGLLGLRIKYGRLFNEIKKFDNDAEEQFGTIEELKQ
KLRLNSEEGADNFIDYIKVQKQDIVKLTVYDCISMIGLCACVVDVWRNEKLFSRWKYCLRAIKLFIND
HMLDKIKSILQNRLVYVEMSKHHHHHH
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111
>DM_train1900
MAQLTHINAAGEAHMVDVSAKAETVREARAEAFVTMRSETLAMIIDGRHHKGDVFATARIAGIQAA
KRTWDLIPLCHPLMLSKVEVNLQAEPEHNRVRIETLCRLTGKTGVEMEALTAASVAALTIYAMCKAV
QKDMVIGPVRLLAKSGGKSGDFKVEADD
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011111
>DM_train1901
GSSSTLTKELIKDAAEKCCTRNRQECCIEIMKFGTPIRCGYDRDPKLPGYVYKCLQNVLFAKEPKKKIN
LDDSVCCSVFGNDQEDSGRRCENRCKNLMTSPSIDAATRLDSIKSCSLLDNVLYKCFEKCRSLRKDGI
KIEVLQFEEYCEATFIQKRTFRGV
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111
>DM_train1902
SVSVDLNVDPSLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWLHDTLTETTDYA
GLIIPPAPTKPDFDGPREKMQKLGEGEGSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRLSSH
PVLSKDRNFHVFLEYDQDLSVRRKNTK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111
>DM_train1903
MAGTSTNTQTTGTSQTIEVGLWGGPGGNAWDDGSYTGIREINLSHGDAIGAFSVIYDLNGQPFTGPT
HPGNEPSFKTVKITLDFPNEFLVSVSGYTGVLARLATGKDVIRSLTFKTNKKTYGPYGKEEGTPFSLPI
ENGLIVGFKGRSGFVVDAIGFHLSL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train1904
DLYFQGGSGMQCEEKLEVFENGFKDEKFNVEVKFYGNDARKVLLAMIYELYLPEYGREYVYPFECAK
EFWNIYLEGEEIQDEEFQLKPIKFTSEQVIKKLQEEIKKIKPPLEIKIEEAKIYKTKEGYLAVGNYFILD
PRGRLFIFNKPSIANKILKYIWKW

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000111000000000000000000000000000000000000000000000000000000000
0000000000000000000
>DM_train1905
SLDDHTRDPTVKAPDGNPSGWRTDGQWEHETLRRAVVHGVRLYNSGEFHESHDCFEDEWYNYGR
GNTESKFLHGMVQVAAGAYKHFDFEDDDGMRSLFRTSLQYFRGVPNDYYGVDLLDVRTTVTNALSD
PSALHGWQIRLDGEYPTCRPEDIEFAESLEH
1111111111111111111111111000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0011111111111111111
>DM_train1907
MSSLQSTRERVLGTPRRRYKVLVAKMGLDGHDRGAKVVARALRDAGFEVVYTGLRQTPEQVAMAA
VQEDVDVIGVSILNGAHLHLMKRLMAKLRELGADDIPVVLGGTIPIPDLEPLRSLGIREIFLPGTSLGEI
IEKVRKLAEEKRMREEAEASEQVGQA
1111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111
>DM_train1908
MEKTDEYLLARFKGDGVKYKAKLIGIDDVPDARGDKMSQDSMMKLKGMAAAGRSQGQHKQRIWV
NISLSGIKIIDEKTGVIEHEHPVNKISFIARDVTDNRAFGYVCGGEGQHQFFAIKTGQQAEPLVVDLKD
LFQVIYNVKKKEEDKKKVEEANKAEEN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000001111111111111
>DM_train1909
MPSTDFADIPAAKKMKIDTCVLRFAKLTENALEPVRGSAKAAGVDLRSAYDVVVPARGKAIVKTDLQ
VQVPEGSYGRVAPRSGLAVKNFIDVGAGVVDEDYRGNLGVVLFNHSDVDFEVKHGDRIAQFICERIFY
PQLVMVDKLEDTERGEAGFGSTGVK
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000111111100000000000000000000000000000000000000000000000000000
001111111111111111
>DM_train1910
APSYRVKRMDIAKNDEECVVNAANPRGLPGDGVCKAVYKKWPESFKNSATPVGTAKTVMCGTYPVI
HAVGPNFSNYSESEGDRELAAAYREVAKEVTRLGVNSVAIPLLSTGVYSGGKDRLTQSLNHLFTAMDS
TDADVVIYCRDKEWEKKISEAIQMRT
1000000000000000000000000000000000000000000000000000000000000000000000
0000100100000000000000000000000000000000000000000000000000000001100000
000000000001111111
>DM_train1911
MQLSHRPAETGDLETVAGFPQDRDELFYCYPKAIWPFSVAQLAAAIAERRGSTVAVHDGQVLGFANF
YQWQHGDFCALGNMMVAPAARGLGVARYLIGVMENLAREQYKARLMKISCFNANAAGLLLYTQLG
YQPRAIAERHDPDGRRVALIQMDKPLEP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000001
>DM_train1912
GMASSFLEEVDRLITLSGITFHASGTGTPELIKIYQDALGNEFPETYKLFLEKYGTLTFNGVSFYGISKR
GLSAASIPDVKFATEQARTFGDINKEMIMIKNSGYGSIFSIDTSIIGSEGEPVIVETNLSFKDNTEKKVV
ANSFGEFLLEEIELSLTDLG
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001
>DM_train1913
MSSNAQVRPPLPPFTRESAIEKIRLAEDGWNSRDPERVSLAYTLDTQWRNRAEFAHNREEAKAFLT
RKWAKELDYRLIKELWAFTDNRIAVRYAYEWHDDSGNWFRSYGNENWEFDEQGLMARRFACIND
MPIKAQERKFHWPLGRRPDDHPGLSELGLE
1110000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000001111
>DM_train1914
LPGTRVTESIHKVAERVVTLVSMELPDNVRLIRDYDPSLPELAHDPDQIEQVLLNIVRNALQALGPEG
GEIILRTRTAFQLTLHGERYRLAARIDVEDNGPGIPPHLQDTLFYPMVSGREGGTGLGLSIARNLIDQH
SGKIEFTSWPGHTEFSVYLPIRK
1111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111111111111111110000000000000000000
000000000000000000
>DM_train1916
GMQGIAFQDAYPDDLSHCYGCGRNNEQGHQLKSYWRGEQTIAHFMPKPFHTAIPGFVYGGLIASLID
CHGTGSASAAAQRALEQAGEQLDEPPRFVTAALNIDYLAPTPMGVELELVGEIKEVKPRKVVVEIALS
ADGKLCARGHMVAVKMPETMAATSA
1111110000011110000011111111110000000000000000000000000000000000000000000
0000000011111111111110000000000000000000000000000011000000000000111000
0000000000011111111
>DM_train1917
EPTMYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIELSENCAYDSVQIISGDTEEGRLCG
QRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYYVATDINECTDFVDVPCSHFCNNFIG
GYFCSCPPEYFLHDDMKNCGVN
0000000000000000000000000000000000000000000000000000000000011100000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1918
GDSAPLNEAMAVLQHHDAVSGTSRQHVANDYARQLSEGWRPCEVLMSNALAHLSGLKEDFAFCRK
LNISICPLTQTAERFQVIVYNPLGRKVDWMVRLPVSKHVYLVKDPGGKIVPSDVVTIPSSDSQELLFSA
LVPAVGFSIYSVSQMPNQRPQKSWS
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000111111111
>DM_train1919

MPPRKELVGNKWFIENYENETESLVIDANKDESIFIGKCSQVLVQIKGKVNAISLSETESCSVVLDSSIS
GMDVIKSNKFGIQVNHSLPQISIDKSDGGNIYLSKESLNTEIYTSCSTAINVNLPIGEDDDYVEFPISEQ
MKHSFADGKFKSAVFEHAG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111
>DM_train1920
SVDNHGLRRCLISTDMHHIEESFQEIKRAIQAKDTFPNVTILSTLETLQIIKPLDVCCVTKNLLAFYVD
RVFKDHQEPNPKILRKISSIANSFLYMQKTLRQCQEQRQCHCRQEATNATRVIHDNYDQLEVHAAAI
KSLGELDVFLAWINKNHEVMSSA
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001110000000000000000000000000000000000000
00000000000000000
>DM_train1921
RLGEVFVLDEEEIRIIQTEAEGIGPENVLNASYSKLKKFIESADGFTNNSYGATFSFQPYTSIDEMTYR
HIFTPVLTNKQISSITPDMEITTIPKGRYACIAYNFSPEHYFLNLQKLIKYIADRQLTVVSDVYELIIPIHY
SPKKQEEYRVEMKIRILE
000000000000000000000000000000001111111111111111000000000000000000000000
000000111000000000000000000000000000000000000000000000000000000000000011
11111100000000000
>DM_train1923
MGRGKVKPNRKSTGDNSNVVTMIRAGSYPKVNPTPTWVRAIPFEVSVQSGIAFKVPVGSLFSANFRT
DSFTSVTVMSVRAWTQLTPPVNEYSFVRLKPLFKTGDSTEEFEGRASNINTRASVGYRIPTNLRQNT
VAADNVCEVRSNCRQVALVISCCFN
111111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train1924
MMESVNTSFLSPSLVTIRDFDNGQFAVLRIGRTGFPADKGDIDLCLDKMKGVRDAQQSIGDDTEFGF
KGPHIRIRCVDIDDKHTYNAMVYVDLIVGTGASEVERETAEELAKEKLRAALQVDIADEHSCVTQFE
MKLREELLSSDSFHPDKDEYYKDFL
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>DM_train1925
QASGNTDQAALESAQARLAALSILVGAVGATGPGVMITIDDPGPGVAPEVMIDVINELRAAGAEAIQI
NDAHRSVRVGVDTWVVGVPGSLTVDTKVLSPPYSILAIGDPPTLAAAMNIPGGAQDGVKRVGGRMV
VQQADRVDVTALRQPKQHQYAQPVK
111111111111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001
>DM_train1926
GCGVEEKTEVQLLKEMPKPKAMTIDPSLSQKEATEMVHAAQRFYAFWDTGKEELIPQTVTENFFD
HTLPKGRPQGTEGLKFAAQNFRKIVPNIHCEIEDLLVVGDKVTARLSFTGTHNDKKIDFFAIDILHVK

DGKITEDWHLEDNLTLKQQLGLIAEE
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011
>DM_train1927
MDEIKIEKLKKLDKKALNELIDVYMSGYEGLEEYGGEGRDYARNYIKWCWKKASDGFFVAKVGDKI
VGFIVCDKDWFSKYEGRIVGAIHEFVVDKKFQGKGIGRKLLITCLDFLGKYNDTIELWVGEKNYGAM
NLYEKFGFKKVGKSGIWVRMIKRQNL
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011
>DM_train1928
NAMQDIHFRRHYVRHLPKEVSQNDIIKALASPLINDGMVVSDFADHVITREQNFPTGLPVEPVGVAI
PHTDHKYVRQNAISVGILAEPVNFEDMGGEPDPVPVRVVFMLALGESNKQLNVLGWIMDVIQDEDF
MQQLLVMNDDEIYQSIYTRISERGEV
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111
>DM_train1929
SSDVNELEIGDPIPDLSLLNEDNDSISLKKITENNRVVVFFVYPRASTPGSTRQASGFRDNYQELKEYA
AVFGLSADSVTSQKKFQSKQNLPYHLLSDPKREFIGLLGAKKTPLSGSIRSHFIFVDGKLKFKRVKISP
EVSVNDAKKEVLEVAEKFKEE
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001
>DM_train1930
MGSDKIHHHHHHMRTLNKDEHNYIKQIANIHETLLSQVESNYKCTKLSIALRYEMICSRLEHTNDKI
YIYENEGQLIAFIWGHFSNEKSMVNIELLYVEPQFRKLGIATQLKIALEKWAKTMNAKRISNTIHKNN
LPMISLNKDLGYQVSHVKMYKDID
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111111
11111111111111111
>DM_train1931
MTFQASGTTGITTLTVTEECRVQVGNVTATLARSKLKDDTAIGVIGVTALGCNGLQAALQADPDNYD
ATNLYMTSRNHDKLNVKLKATDGSSWTYGNGVFYKTEGGNWGGHVGISVDGNQTDKPTGEYTLNL
TGGYWTNDNKQTFQASGTTGITTLTLE
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
11111111111111111
>DM_train1932
GSAMASNAVLYKSNHNVVYSCKYHIVWCPKYRRKVLVGAVEMRLKEIIQEVAKELRVEIIEMQTDKD
HIHILADIDPSFGVMKFIKTAKGRSSRILRQEFNHLKTKLPTLWTNSCFISTVGGAPLNVVKQYIENQQ
NSNRPKQKEKWKSYVDNLQTKAL
11111111100000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000011111111
1111111111111111
>DM_train1933
MFDQLAVFTPQGQVLYQYNCLGKKFSEIQINSFISQLITSPVTRKESVANANTDGFDFNLLTINSEHKN
SPSFNALFYLNKQPELYFVVTFAEQTLELNQETQQTLALVLKLWNSLHLSESILKNRQGQNEKNKHN
YVDILQGIEDDLKKFEQYFRIK
00000000000000000000000000000000000000000000000000000000000001111111
10000000000000000000000000000000000000000000000000000000000000000000
0000000000000111
>DM_train1934
TDENLKIAIASSPAPRYITDMSIEEISREWYMLMPRQKITGGLMVKMDQAIMDKRITLKANFSVLFD
QLETLVSLRAFTDDGAIVAEISPIPSMPGHSTEDVKNAIGILIGGLEWNDNSIRASENIQRFAWGIRDE
NGGPPLPPKQKRYMARRVESEV
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111111
1111111111111111
>DM_train1935
PPTIQEIKQKIDSYNSREKHCLGMKLSEDGTYTGFIKVHLKLRRPVTVPAGIRPQSIYDAIKEVNPAAT
TDKRTSFYLPLDAIKQMHISSTTTVSEVIQGLLDKFMVVDNPQKFALFKRIHKDGQVLFQKLSIADYP
LYLRLLAGPDTDVLSFVLKEN
00000000000000000000000000000000000000000000000011111111111111111111
11100000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1936
ERLRVAAYCRVSTDSEDQLNSYKSQVQYYTDMIKKNKEWVLADIYADEAITGTQVTKREDFQRMIN
DCMNGEIDMVFTKSISRFARNTLDTLKYVRMLKERNIAVYFEDEKINTLTMDGELLLVVLSSVAQQE
VENISANVKKGLKMKMKRGELVGFQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
1111111111111111
>DM_train1937
GSSMALLQKTRIINSMLQAAAGKPVNFKEMAETLRDVIDSNIFVVSRRGKLLGYSINQQIENDRMKK
MLEDRQFPEEYTKNLFNVPETSSNLDINSEYTAFPVENRDLFQAGLTTIVPIIGGGERLGTLILSRLQD
QFNDDDLILAEYGATVVGMEIL
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1938
GSHMNTAEEDMEDDTSWRSEATFQFTVERFSRLSESVLSPPCFVRNLPWKIMVMPRFYPDRPHQK
SVGFFLQCNAESDSTSWSCHAQAVLKIINYRDDEKSFSRRISHLFFHKENDWGFSNFMAWSEVTDP
EKGFIDDDKVTFEVFVQADAPHGVAWD
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000

>DM_train1939
SNAMEILYIKGDATAPIGSGVKVITHICNDIGGWGKGFVLALSKKWKMPEEAYRQWYKSQEEFTLGA
VQFVNVENKLYVANMIGQHGIYKDSKGLPPIRYDAVRQCLKEVALFTIAHKASVHMPRIGCGLAGGK
WELMEQIIKEELITKEIAVTVYDL
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1940
GMSDDLTDAQTAAIPEGFSQLNWSRGFGRQIGPLFEHREGPGQARLAFRVEEHHTNGLGNCHGGML
MSFADMAWGRIISLQKSYSWVTVRLMCDFLSGAKLGDWVEGEGELISEEDMLFTVRGRIWAGERTL
ITGTGVFKALSARKPRPGELAYKEEA
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000001111
>DM_train1941
SGAISGDSLISLASTGKRVSIKDLLDEKDFEIWAINEQTMKLESAKVSRVFMTGKKLVYILKTRLGRTI
KATANHRFLTIDGWKRLDELSLKEHIALPRKLESSSLQLSPEIEKLSQSDISWDSIVSITETGVEEVFDL
TVPGPHNFVANDIIVHASI
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111100000000000000000000000
0000000000000000
>DM_train1942
MGVFTFQDEYTSTIAPAKLYKALVTDADIIIPKAVETIQSVEIVEGNGGPGTIKKLTFIEGGESKYVLHK
IEAIDEANLGYNYSIVGGVGLPDTIEKISFETKLVEGANGGSIGKVTIKIETKGDAQPNEEEGKAAKAR
GDAFFKAIESYLSAHPDYN
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1943
VDLGSKSSNSTCRLNVTELASIHPGETWTLHGMCISICYYENVTEDEIIGVAFTWQHNESVVDLWLY
QNDTVIRNFSDITTNILQDGLKMRTVPVTKLYTSRMVTNLTVGRYDCLRCENGTTKIIERLYVRLGSL
YPRPPGSGLAKHPSVSADEELSA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111
1111111111111111
>DM_train1944
MAPKRSRRSNRRAGSRAAATSLVYDTCYVTLTERATTSFQRQSFPTLKGMGDRAFQVVAFTIQGVSA
APLMYNARLYNPGDTDSVHATGVQLMGTVPRTVRLTPRVGQNNWFFGNTEEAETILAIDGLVSTKG
ANAPSNTVIVTGCFRLAPSELQSS
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>DM_train1945
VMKLESDKTFPIMLEGKINGYACVVGGKLFRPMHVEGKIDNDVLAALKTKKASKYDLEYADVPQNM

RADTFKYTHEKPQGYYSWHHGAVQYENGRFTVPKGVGAKGDSGRPILDNQGRVVAIVLGGVNEGSR
TALSVVMWNEKGVTVKYTPENCEQW
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train1946
MSHPDLNKLLELWPHIQEYQDLALKHGINDIFQDNGGKLLQVLLITGLTVLPGREGNDAVDNAGQE
YELKSINIDLTKGFSTHHHMNPVIIAKYRQVPWIFAIYRGIAIEAIYRLEPKDLEFYYDKWERKWYSD
GHKDINNPKIPVKYVMEHGTKIY
0000000000000000000000000000000000000000000000000111000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train1948
SDVAFRGNLLDRPCHVSGDSLNKHVVFKTRASRDFWYPPGRSPTESFVIRLENCHATAVGKIVTLTF
KGTEEAALPGHLKVTGVNAGRLGIALLDTDGSSLLKPGTSHNKGQGEKVTGNSLELPFGAYVVATPE
ALRTKSVVPGDYEATATFELTYR
1111111100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train1949
MGAMHVLTLDLAPVTPKDAPLLHRVFHLSPSYFALIGMELPTLEDVVRDLQTLEVDPRRRAFLLFLG
QEPVGYLDAKLGYPEAEDATLSLLLIREDHQGRGLGRQALERFAAGLDGVRRLYAVVYGHNPKAKAF
FQAQGFRYVKDGGPTLTWYVRPL
1110000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train1950
SSPNILLTRIDNRLVHGQVGVTWTSTIGANLLVVVDDVVANDDIQQKLMGITAETYGFGIRFFTIEKTI
NVIGKAAPHQKIFLICRTPQTVRKLVEGGIDLKDVNVGNMHFSEGKKQISSKVYVDDQDLTDLRFIKQ
RGVNVFIQDVPGDQKEQIPD
1110000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001
>DM_train1951
YFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTDSDSRDNAPRTIFIISMYKDSQPRGMAVTISVKS
EKISTLSSENKIISFKEMNPPDNIKDTKSDIIFFQRSVPGHDNKMQFESSSYEGYFLASEKERDLFKLIL
KKEDELGDRSIMFTVQNED
0000000000000000000000000000001111111110000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011100000000000
000000000000001
>DM_train1952
GNIESIENLQGIRALQQQAPQLLSSGLPNEQQFSLLKQAGVDVVINLMPDSSKDAHPDEGKLVTQAG
MDYVYIPVDWQNPKVEDVEAFFAAMDQHKGKDVLVHCLANYRASAFAYLYQLKQGQNPNMAQTM
TPWNDELAIYPKWQALLTEVSAKYGH

11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001100000
000000000000000
>DM_train1953
MYSIEVRTHSALHVVKGAVVKVLGSEAKWTYSTYVKGNKGVLIVKFDRKPSDEEIREIERLANEKVK
ENAPIKIYELPREEAEKMFGEDMYDLFPVPEDVRILKVVVIEDWNVNACNKEHTKTTGEIGPIKIRK
VRFRKSKGLLEIHFELLELENPS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000111111
>DM_train1954
MALFSAQSPYINPIIPFTGPIQGGLQEGLQVTLQGTTKSFAQRFVVNFQNSFNGNDIAFHFNPRFEEG
GYVVCNTKQNGQWGPEERKMQMPFQKGMPFELCFLVQRSEFKVMVNKKFFVQYQHRVPYHLVDTI
AVSGCLKLSFITFQTQNFRPAHQA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000011111111
>DM_train1955
GMPALITYRTTVQEDWVDYNGHLRDAFYLLIFSYATDALMDRIGLDADSRGQSGNSLFTLEAHINYL
HEVKLGTEVWVQTQILGFDRKRLHVYHSLHRAGFDEVLAASEQMLLHVDLAGPQSAPFGHTTVCR
LNHLVEQQEGAQAPQYMGRTIKLPA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001110000000000000000000000
000000000000000
>DM_train1956
MSSSIREEVHRHLGTVALMQPALHQQTHAPAPTEITHTLFRAYTRVPHDVGGEADVPIEYHEKEEEI
WELNTFATCECLAWRGVWTAEERRRKQNCDVGQTVYLGMPYYGRWLLTAARILVDKQFVTLTELH
NKIVEMRERVASGQGLGEYLPPKAK
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000111
>DM_train1957
MKLHDLKPTPGSRKDRKRVGRGPGGTDKTAGRGHKGQKSRSGAGKGAFFEGGRSRLIARLPKRGFN
NVGTTYEVVKLSQLQDLEDTTFDRDTLEAYRLVRRKNRPVKLLASGEISRAVTVHVDAASAAAIKAV
EAAGGRVVLPEVQTQQDDAQKAE
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
001111111111111
>DM_train1958
MSDRKPVRGRHQARKRAVALLFEAEVRGISAAEVVDTRAALAEAKPDIARLHPYTAAVARGVSEHA
AHIDDLITAHLRGWTLDRLPAVDRAILRVSVWELLHAADVPEPVVVDEAVQLAKELSTDDSPGFVN
GVLGQVMLVTPQLRAAAQAVRGGA
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111

11111111111111
>DM_train1959
MLKQVEIFTDGSALGNPGPGGYGAILRYRGREKTFSAGYTRTTNNRMELKAAIEGLKALKEPAEVDL
YTDSHYLKKAFTEGWLEGWRKRGWRTAEGKPVKNRDLWEALLLAMAPHRVRFHFVKGHAGHPE
NERADELARAAAMNPTLEDTGYQVEV
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000011111111111111111000000000000000000000000000000000000000000000000
00000000001111
>DM_train1960
MIVTSGVLVENGKVLLVKHKRLGVYIYPGGHVEHNETPIEAVKREFEEETGIVVEPIGFTYGIIDENAV
ERPMPLVILEEVVKYPEETHIHFDLIYLVKRVGGDLKNGEWIDVREIDRIETFPNVRKVVSLALSTLYR
LGKISKLAAALEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000111111111
>DM_train1961
MSSRSELLLEKFAEKIGIGSISFNENRLCSFAIDEIYYISLSDANDEYMMIYGVCGKFPTDNSNFALEIL
NANLWFAENGGPYLCYEAGAQSLLLALRFPLDDATPEKLENEIEVVVKSMENLYLVLHNQGITLENE
HMKIEEISSSDNKHYYAGR
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111000
00001111111111
>DM_train1962
MWGKKDAGTELTNYQTLATNTIGMMKGVDGYAFTSGAKMTDTLIQAGAAKGMTVSGDPASGSATL
WNSWGGQIVVAPDTAGGTGFNNGFTITTNKVPQSACVSISTGMSRSGGTSGIKINGNNHTDAKVTAE
IASSECTADNGRTGTNTLVFNYNG
11111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train1963
GMPENTAMAALLPEESLFFRELVKQWRAQDSYGTWEKKSDMELLAPYVLDKEQRRAIPIIGDPDPE
ILWRVELFYNAVGLATERASGVMVSPMMKMSHEGFGRMVLIAGRLIVVNKQLRDVHRFGFPSMEKL
AEEGDKLVAGALEMIEKFPEVARF
11111111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train1964
GGGVMHYTDKAALPADGEAREVAALFDTWNAALATGNPHKVADLYAPDGVLLPTVSNEVRASREQI
ENYFEMFLTKKPKGVINYRTVRLLDDDSAVDAGVYTFTLTDKNGKKSDVQARYTFVYEKRDGKWLII
NHHSSAMPEVDTATATAAVTKAK
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
01111111111111
>DM_train1965

HMLLTTSRKPSQRTRSFSQRLSRIMGWRYINRGKMSLRDVLIEARGPVAVVSERHGNPARITFLDER
GGERGYILFNPSFEMKKPELADKAVRVSSCPPGSEGLCNLMGLEVDESSSRDAWSIRTDEEYAWVME
LMDARGTPAGFKLLIRDFRVGE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000011100000000000000000000000011000000000000000000000000
00000000000001
>DM_train1966
VTDVLLCVGNSMMGDDGAGPLLAEKCAAAPKGNWVVIDGGSAPENDIVAIRELRPTRLLIVDATDM
GLNPGEIRIIDPDDIAEMFMMTTHNMPLNYLIDQLKEDIGEVIFLGIQPDIVGFYYPMTQPIKDAVET
VYQRLEGWEGNGGFAQLAVEEE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111
>DM_train1968
SITKPQNKSAKLVDGELLVKASVESFGLEDEKYWFLVCCELSNGKTRQLKRYYQDFYDLQVQLLDAFP
AEAGKLRDAGGQWSKRIMPYIPGPVPYVTNSITKKRKEDLNIYVADLVNLPDYISRSEMVHSLFVVL
NNGFDREFERDENGSHHHHHH
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111111111
>DM_train1969
MPLLSASIVSAPVVTSETYVDIPGLYLDVAKAGIRDGKLQVILNVPTPYATGNNFPGIYFAIATNQGVVA
DGCFTYSSKVPESTGRMPFTLVATIDVGSGVTFVKGQWKSVRGSAMHIDSYASLSAIWGTAAPSSQGS
GNQGAETGGTGAGNIGGG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
11111111111111
>DM_train1970
MLEDLIGKAYLESAEDRRRGDRSEEVEAIRKYIRSARRTVVPNWNAEKVDAINDVLRSFNLREAEHL
QFNTNWADLTRMPAVTKALMALDISGADLVIARGRLGVPGSGSLLVIMDSRGRLLSAAMSPPHVIHS
MEVREAVRSEMTHALERIGFKR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001
>DM_train1971
ALSPPRRKSFKKWTPPRSPFNLVQEILFHDPWKLLIATIFLNRTSGKMAIPVLWEFLEKYPSAEVARA
ADWRDVSELLKPLGLYDLRAKTIIKFSDEYLTKQWRYPIELHGIGKYGNDSYRIFCVNEWKQVHPED
HKLNKYHDWLWENHEKLSLS
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1972
GTGQAADLKSTQAAIDQINGKLNRVIEKTNEKFHQIEKEFSEVEGRIQDLEKYVEDTKIDLWSYNAEL
LVALENQHTIDLTDSEMNKLFEKTRRQLRENAEEMGNGSFKIYHKCDNACIESIRNGTYDHDVYRDE

ALNNRFQIKGVELKSGYKDW
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000111111111000000000000000000000000000000000000
0001111111111
>DM_train1974
GTLDSTWKEATLPQVKAMLEKDDGKVSGDTVTYSGKTVHVVAAAVLPGFPFPSFEVHDKKNPTLEI
PAGATVDVTFINTNKGFGHSFDITKKGPPYAVMPVIDPIVAGTGFSPVPKDGKFGYTDFTWHPTAGT
YYYVCQIPGHAATGMFGKIVVK
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train1975
MIISSLTNPNFKVGLPKVIAEVCDYLNTLDLNALENGRHDINDQIYMNVMEPETAEPSSKKAELHHE
YLDVQVLIRGTENIEVGATYPNLSKYEDYNEADDYQLCADIDDKFTVTMKPKMFAVFYPYEPHKPCC
VVNGKTEKIKKLVVKVPVKLI
0000000000000000000000000000000000000000000000000001111111100000000000
0000000000000000000000000000000000000000000000000000000000000001111111
0000000000000
>DM_train1976
MKAPELQIQQWFNSATDLTLADLRGKVIVIEAFQMLCPGCVMHGIPLAQKVRAAFPEDKVAVLGLH
TVFEHHEAMTPISLKAFLHEYRIKFPVGVDQPGDGAMPRTMAAYQMRGTPSLLLIDKAGDLRAHHF
GDVSELLLGAEIATLLGEAAPSV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000111
>DM_train1977
MAMRKIYIAGPAVFNPDMGASYYNKVRELLKKENVMPLIPTDNEATEALDIRQKNIQMIKDCDAVIA
DLSPFRGHEPDCGTAFEVGCAAALNKMVLTFTSDRRNMREKYGSGVDKDNLRVEGFGLPFNLMLYD
GVEVFDSFESAFKYFLANFPSK
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000001
>DM_train1978
MGSDKIHHHHHHMSKKQKSKYIVIFGCGRLGSLIANLASSSGHSVVVVDKNEYAFHRLNSEFSGFTV
VGDAAEFETLKECGMEKADMVFAFTNDDSTNFFISMNARYMFNVENVIARVYDPEKIKIFEENGIKT
ICPAVLMIEKVKEFIIGSEED
1111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000111
>DM_train1979
MDIREIEQERASFAFKVVSDIKDKYSQNKKVQGKYSSYAEKAPTIILNNGLGATLAFFLSKLEKPIDDV
DYKSINPESFGNAENIAYAFLYKHLSTWLAEGNGKDSAFSGLTNGEDPLKYIMEKTAIDVAISTEEALS
ILNWIKKFAKAMLEEEL
1000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
0000000000011
>DM_train1980
MSLIPKFRAWDTYEKEMLENVTPLFDDSNSMIAIITDFQIKGSPGTSEIEIGSYDTTFNWDEFPYVIM
QSTGLKDKNGVEIFEGDILVYDAPKKYAHRRSMHEIAYADGRFFWEFLDLVFCQSNILYRDGYLVIGNI
HENPELLEGNEGHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0011111111111
>DM_train1981
GSRATVFKLGLFKSLFLCSFHDITRLFKNDKTTNQQWVLAVFGLAEVFFEASFELLKKQCSFLQMQK
RSHEGGTCAVYLICFNTAKSRETVRNLMANMLNVREECLMLQPPKIRGLSAALFWFKSSLSPATLKH
GALPEWIRAQTTLNESLQTE
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000111111
>DM_train1982
PVVIKTEGPAWTPLEPKLITRLADTVRTKGLRSPITMAEVEALMSSPLLPHDVTNLMRVILGPAPYAL
WMDAWGVQLQTVIAAATRDPRHPANGQGRGERTNLNRLKGLADGMVGNPQGQAALLRPGELVAIT
ASALQAFREVARLAEPAGPWA
00000111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011100000000000000000000000000000000000000000000
000001111111
>DM_train1983
EELIEIREARMDDLDTIAKFNYNLAKETEGKELDMDVLTKGVKALLLDERKGKYHVYTVFDKVVAQI
MYTYEWSDWRNGNFLWIQSVYVDKEYRRKGIFNYLFNYIKNICDKDENIVGMRLYVEKENINAKAT
YESLNMYECDYNMYEYEVIHS
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000001
>DM_train1984
GMFASLVIPVSAQANSGEMPQEQQLAVKYMDALTEHDYKTLITFYNRDSIFFDKTANRKYTGGRFIID
FLERAHQGVLEYDFNIEHMYNAGSLVVMIGNYHFKGPGEQFGKPGKIIDVAIPAVTSLKLDMLNRRV
TEHVDLIDYQTMSDQLAMQ
11111111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000
>DM_train1985
MKKILLLNGPNLNMLGKREPHIYGSQTLSDIEQHLQQSAQAQGYELDYFQANGEESLINRIHQAFQN
TDFIIINPGAFTHTSVAIRDALLAVSIPFIEVHLSNVHAREPFRHHSYLSDVAKGVICGLGAKGYDYALD
FAISELQKIQLGEMMNG
00000000000000000111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000011111111

>DM_train1986
MGSDKIHHHHHHMSDSLVVCEVDPELKETLRKFRFRKETNNAAIIMKVDKDRQMVVLEDELQNIS
PEELKLELPERQPRFVVYSYKYVHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNRLVQTAELTKVF
EIRTTDDLTETWLKEKLAFFR
11111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000
>DM_train1987
MGSSSSGLVPRGSSFMLQHLNSGWAVDQAIVNEDERLVCIRFGHDYDPDCMKMDELLYKVADDIKN
FCVIYLVDITEVPDFNTMYELYDPVSVMFFYRNKHMMIDLGTGNNNKINWPMNNKQEFIDIVETIF
RGARKGRGLVISPKDYSTKYKY
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000111111
>DM_train1988
MAGDPNSMTVSHHNASTARFYALRLLPGQEVFSQLHAFVQQNQLRAAWIAGCTGSLTDVALRYAGQ
EATTSLTGTFEVISLNGTLELTGEHLHLAVSDPYGVMLGGHMMPGCTVRTTLELVIGELPALTFSRQP
CAISGYDELHISSRLEHHHH
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000011111
>DM_train1989
GMTRTMSFHKNCELCTTAGGEILWQDALCRVVHVENQDYPGFCRVILNRHVKEMSDLRPAERDHL
MLVVFAVEEAVREVMRPDKINLASLGNMTPHVHWHVIPRFKRDRHFPNSVWGETKRESLPQALDQ
GSTTALKKAISVRLDQGEPVFMGM
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000111111111
>DM_train1990
SNAMTQQDFRTKVDNTVFGVRATALIVQNHKLLVTKDKGKYYTIGGAIQVNESTEDAVVREVKEEL
GVKAQAGQLAFVVENRFEVDGVSYHNIEFHYLVDLLEDAPLTMQEDEKRQPCEWIDLDKLQNIQLV
PVFLKTALPDWEGQLRHIHLEE
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000001
>DM_train1991
GHMPLPTELARHLTEEKIAFVQRSGLRAEVLEPGYVRLRMPGAGNENHIGSMYAGALFTLAELPGGA
LFLTSFDSARFYPIVKEMTLRFRRPAKGDIRVEARLDAERIRQLETEAGERGKAEYSLELQLTDEQGE
VVAESAALYQLRSHARPGS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000011111
>DM_train1992
MGKSASKQFHNEVLKAHNEYRQKHGVPPLKLCKNLNREAQQYSEALASTRILKHSPESSRGQCGEN

LAWASYDQTGKEVADRWYSEIKNYNFQQPGFTSGTGHFTAMVWKNTKKMGVGKASASDGSSFVVA
RYFPAGNVVNEGFFEENVLPPKK
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
000000000011
>DM_train1993
APVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVWSMSFVQGEESNDKIPVALGLKEK
NLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINNKLEFESAQFPNFYISTSQAENMPV
FLGGTKGGQDITDFTMQFVSS
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111000
00000000000
>DM_train1994
MNVRATYTVIFKNASGLPNGYDNWGWGCTLSYYGGAMIINPQEGKYGAVSLKRNSGSFRGGSLRFD
MKNEGKVKILVENSEADEKFEVETISPSDEYVTYILDVDFDLPFDRIDFQDAPGNGDRIWIKNLVHST
GSADDFVDPINLEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
11111111111
>DM_train1995
SNAMAKNKLLRMDNVSIVVESLDNAISFFEEIGLNLEGRANVEGEWAGRVTGLGSQCVEIAMMVTP
DGHSRIELSRFLTPPTIADHRTAPVNALGYLRVMFTVEDIDEMVSRLTKHGAELVGEVVQYENSYRLC
YIRGVEGILIGLAEELGNK
11111100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000011
>DM_train1996
MTDDSAVESKQKKSKIRKGHWIPVVAGFLRKDGKILVGQRPENNSLAGQWEFPGGKIENGETPEEA
LARELNEELGIEAEVGELKLACTHSYGDVGILILFYEILYWKGEPRAKHHMMLEWIHPEELKHRNIP
EANRKILHKIYKALGLEWRK
11111111111111111000000000000000000000011111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000011
>DM_train1997
LEDRKNERLPSDLARRATAIIEMPDGVLVTASRGGRYNLPGGKANRGELRSQALIREIREETGLRINS
MLYLFDHITPFNAHKVYLCIAQGQPKPQNEIERIALVSSPDTDMDLFVEGRAILRRYARLRNEETAKG
EALRALLGLARYIAKVD
11111111000000000000000000000011100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train1998
MENQKMQEPLVYRRILLTVDEDDNTSSERAFRYATTLAHDYDVPLGICSVLESEDINIFDSLTPSKIQA
KRKHVEDVVAEYVQLAEQRGVNQVEPLVYEGGDVDDVILEQVIPEFKPDLLVTGADTEFPHSKIAGAI
GPRLARKAPISVIVVR

10000000000000000000000000000000000000000000000000000111111111110000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train1999
LSSTQSVNSVLAPGNLRKVHHIALNVQDMQASRYFYGTILGLHELTDDEVPATLTELVASGKVANFIT
PDGTILDLFGEPELSPPDPNPEKTFTRAYHLAFDIDPQLFDRAVTVIGENKIAIAHGPVTRPTGRGVY
FYDPDGFMIEIRCDPEA
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001000000000000
00000000001
>DM_train2000
GHMTEIERKFLVATFPDGELHAVPLRQGYLTTPTDSIELRLRQQGTEYFMTLKSEGGLSRQEYEIQID
VTQFEMLWPATEGRRVEKTRYSGKLPDGQLFELDVFAGHLSPLMLVEVEFLSEDAAQAFIPPPWFGE
EVTEDKRYKNKALALSIP
11100000000000000000000000000000000000000000000000000011111100000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train2001
AGHMSLYRLIYSSQGIPNLQPQDLKDILESSQRNNPANGITGLLCYSKPAFLQVLEGECEQVNETYHRI
VQDERHHSPQIIECMPIRRRNFEVWSMQAITVNDLSTEQVKTLVLKYSGFTTLRPSAMDPEQCLNFL
LDIAKIYELSDNFFLDL
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
01111111111
>DM_train2002
GMIYSKVENFINENKQNAIFTEGASHENIGRIEENLQCDLPNSYKWFLEKYGAGGLFGVLVLGYNFD
HASVVNRTNEYKEHYGLTDGLVVIEDVDYFAYCLDTNKMKDGECPVVEWDRVIGYQDTVADSFIEFF
YNKIQEAKDDWDEDEDWDD
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000001
>DM_train2003
MEKLKEFRGIKEHLGVFREAVKDAERIGFAGVPGVCTPFAQLFAYAVRDKDNIFIPNTDFSKARKLEV
TEYGVELGEISPGNVDVLVLLGGLSMPGIGSDIEDVKKLVEDALEEGGELMGLCYMDMFARAGWYEL
LDFDCVINADIDGYVLRG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011000000000000000000000000000000000000000000000
00000000000
>DM_train2004
GMQQPTASVVSYVAEYHKATETTMGRYKKVIEITGHDEVAAKLLEGLIDAGTRYFSKVVEMEHRMA
SARFRLDGEELRELTETLDRSRRLAHESLISSLHVFNRYIVKEYGEELKEAGIEGGIFPKPEANRDRIAI
ADWAGELLTGIYENRHR
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000
>DM_train2005
GAMDPDLEATLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLI
EDPKPLRLDDVSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQAL
AAAAGIAVANARLYQQAK
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000111
>DM_train2006
SEDNITVRFVTENDKEGWQRLWKSYQDFYEVSFPDDLDDFNFGRFLDPNIKMWAAVAVESSSEKII
GMINFFNHMTTWDFKDKIYINDLYVDENSRVKGAGGKLIQFVYDEADKLGTPSVYWCTDESNHRA
QLLYVKVGYKAPKILYKRKGY
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train2007
EKTCDLVGEKGKESEKELALLKRLTPLFQKSFESTVGQSPDMYSYVFRVCREAGQHSSGAGLVQIQKS
NGKETVVGRFNETQIFQGSNWIMLIYKGGDEYDNHCGREQRRAVVMISCNRHTLADNFNPVSEERG
KVQDCFYLFEMDSSLACS
00000000000000000000000000000000001111110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train2008
GSMSAKDERAREILRGFKLNWMNLRDAETGKILWQGTEDLSVPGVEHEARVPKKILKCKAVSRELN
FSSTEQMEKFRLEQKVYFKGQCLEEWFFEFGFVIPNSTNTWQSLIEAAPESQMMPASVLTGNVIIET
KFFDDDLLVSTSRVRLFYV
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111111111110000000000
0000000000
>DM_train2009
MELTTRTLPARKHIALVAHDHCKQMLMSWVERHQPLLEQHVLYATGTTGNLISRATGMNVNAMLS
GPMGGDQQVGALISEGKIDVLIFFWDPLNAVPHDPDVKALLRLATVWNIPVATNVATADFIIQSPHF
NDAVDILIPDYQRYLADRLK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0011111111
>DM_train2010
MLEKVEEWIKARGLTWRLLIMQKPTRTVAEAAALLGVSESEIVKTLIVLDNAGGVYAVVIPGDKRLNI
NSMKELAGKPVRLARANEVVELTGYPVGGVPPVALPPNIVLVVDRILLSRKKVYGGGGRENALLEFSP
RELVEATGAVVADVSE
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train2011

MKPKSGAVRRLEKNTMNFVLSDVADAEAEKAIRDPLVAYNLARFGESDKRDLNITIRNDDNSVTGGL
VGHTARGWLYVQLLFVPEAMRGQGIAPKLLAMAEEEARKRGCMGAYIDTMNPDALRTYERYGFTKI
GSLGPLSSGQSITWLEKRF
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train2012
GSHMSSSPAKDPPIQRLRGAVTRCEDGQLFISSYKNEYQTMEVQNNSVVIKCDGLYIIYLKGSFFQEVK
IDLHFREDHNPISIPMLNDGRRIVFTVVASLAFKDKVYLTVNAPDTLCEHLQINDGELIVVQLTPGYC
APEGSYHSTVNQVPL
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
1111111111
>DM_train2013
GMNPENWLLLRRVVRFGDTDAAGVMHFHQLFRWCHESWEESLESYGLNPADIFPGSRKSEVTPEV
ALPIIHCQADFRRPIHTGDALAMELRPERLNPNSFQVHFEFRCEEQIAAHALIRHLAINAQTRHRCAL
PEGIDRWLEASGVGKIGSI
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0001111111
>DM_train2014
MNPAHLLVLSAVCVSLLGASSIPPQPLHLIQFGNMIQCTVPGFLSWIKYADYGCYCGAGGSGTPVDKL
DRCCQVHDNCYTQAQKLPACSSIMDSPYVKIYSYDCSERTVTCKADNDECAAFICNCDRVAAHCFAA
SPYNNNNYNIDTTTRC
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train2015
MRGSHHHHHHGSENLYFQSGLFDAPGRSQFVPADQAFAFDFQQNQHDLNLTWQIKDGYYLYRKQIR
ITPEHAKIADVQLPQGVWHEDEFYGKSEIYRDRLTLPVTINQASAGATLTVTYQGCADAGFCYPPETK
TVPLSEVVANNAAPQPV
11111111111111111111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
001111111
>DM_train2016
MSKNTVSSARFRKVDVDEYDENKFVDEDDGGDGQAGPDEGEVDSCLRQGNMTAALQAALKNPPIN
TKSQAVKDRAGSIVLKVLISFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDNSSAVLLQWHEKAL
AAGGVGSIVRVLTARKTV
11111111000000000000000000001111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train2018
QGGAAAPISSHARLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLIGEKLFHGVSMSERCYLMKQ
VLNFTLEEVLFPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKDTVKKLGESGEI

KAIGELDLLFMSLRNACI
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111110000000000000000000000000000000
000000000
>DM_train2019
GMAKKTLILYYSWSGETKKMAEKINSEIKDSELKEVKVSEGTFDADMYKTSDIALDQIQGNKDFPEI
QLDNIDYNNYDLILIGSPVWSGYPATPIKTLLDQMKNYRGEVASFFTSAGTNHKAYVSHFNEWADGL
NVIGVARDDSEVDKWSK
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train2020
MRTFESVADLAAAAGEKVGQSDWVTITQEEVNLFADATGDHQWIHVDPERAAAGPFGTTIAHGFM
TLALLPRLQHQMYTVKGVKLAINYGLNKVRFPAPVPVGSRVRATSSLVGVEDLGNGTVQATVSTTVE
VEGSAKPACVAESIVRYVA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000001
>DM_train2021
MDCMRKLDRVDMQLVKILSENSRLTYRELADILNTTRQRIARRIDKLKKLGIIRKFTIIPDIDKLGYMY
AIVLIKSKVPSDADKVISEISDIEYVKSVEKGVGRYNIIVRLLLPKDIKDAENLISEFLQRIKNAENVEVI
LISEVRKFEII
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train2022
MGSSSSGLVPRGSMSSGTMKFNGYLRVRIGEAVGLQPTRWSLRHSLFKKGHQLLDPYLTVSVDQVRV
GQTSTKQKTNKPTYNEEFCANVTDGGHLELAVFHETPLGYDHFVANCTLQFQELLRTTGASDTFEG
WVDLEPEGKVFVVITLTG
11110000001111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000001
>DM_train2023
MHRTSNGSHATGGNLPDVASHYPVAYEQTLDGTVGFVIDEMTPERATASVEVTDTLRQRWGLVHGG
AYCALAEMLATEATVAVVHEKGMMAVGQSNHTSFFRPVKEGHVRAEAVRIHAGSTTWFWDVSLRD
DAGRLCAVSSMSIAVRPRRD
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000001
>DM_train2024
MAITVKGLTNKLTRTQRRIAVVEFIFSLLFFLPKEAEVIQADFLEYDTKERQLNEWQKLIVKAFSENIF
SFQKKIEEQQLKNQLEIQTKYNKISGKKIDLLTTAVVLCALSEQKAHNTDKPLLISEALLIMDHYSQGA
EKKQTHALLDKLL
11111111111000000000000000000000000000000000000000000000000000000000000

000000000000000001111111000000000000000000000000000000000000000000000000000000000
>DM_train2025
SNAMVHDSALPFDALPMPPQGREGFEECPYLDSQWVADTNGQRMTGQGVDTRFDTPACVFWSYP
EAPQATVMVRHMPSEEEAIRVVDWAAPIDTTEPAEEPDGWSGGRAGHEEGAVYAVQKGPVAVVVW
SNQQQSLKAELMAKEAIARLGL
111100000000000000001110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2026
GMQGAGRLMQPRPDSAFVHDVRVTWGDCDPAKIAYTGHLPRFALEAIDAWWSEYHGPGGWYHLE
LDTNVGTPFVRLEMDFKSPVTPRHILKCHTWPTRLGTKSITFRVDGVQDGVTCFVGAFTCVFTIADQ
FKSQPAPDHLRALIEPHIPA
111111110000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2027
MSLDRTTQQPFGNGYLSVEQANLILNHLPLEITFVNKDDIFQYYNDSVPAAEMVFKRTPSQVGRNVE
LCHPPKVLDKVKKVFELLRNGQRDKVNMWFQSERLGKFVYVTYAAVRDQAGDFQGVLEYVQDIKP
FFELDSEFNRDEGHHHHHH
111000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000011111111111111
>DM_train2029
MRNEMHLQFSARSENESFARVTVAAFVAQLDPTMDELTEIKTVVSEAVTNAIIHGYNNDPNGIVSISV
IIEDGVVHLTVRDEGVGIPDIEEARQPLFTTKPELERSGMGFTIMENFMDEVIVESEVNKGTTVYLKK
HIVKSKRYLEGSSF
000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001111111111
>DM_train2031
GMTAVFRNTVLVRFKHCDAAGIVFYPRYFEMLNDFIEDWFAQALDWPFDAMHGAGQAGVPTADLH
CRFVAPSRLGETLTRELRVVKLGQSSFTVQVRFMGPDSGLRLEVTQRLVCVDTDKIAPRPLPDPVRQ
AMATYVDETLAATGSPGL
000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000001111111
>DM_train2032
MPMTLDLQPGQRLARGVARHLRAHGFVSVEEFVPARGLRVDVMGLGPKGEIWVIECKSSRADFQAD
AKWQGYLEWCDRYFWAVDMEFPAELLPAESGLLIADAYDAEIVRMAPEQKLAPARRKVLIQKFATH
AARRLQALRDPEGHGIFE
111100000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000

>DM_train2033
EADSGDGDSSEYQDGKEFGIGDLVWGKIKGFSWWPAMVVSWKATSKRQAMSGMRWVQWFGDGK
FSEVSADKLVALGLFSQHFNLATFNKLVSYRKAMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLE
WAHGGFKPTGIEGLKPNNTQP
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111
>DM_train2034
TGKTGTQLLADKLKKLQVKDFQSIPVVIHENVSVYDAICTMFLEDVGTLFVVDRDAVLVGVLSRKDL
LRASIGQQELTSVPVHIIMTRMPNITVCRREDYVMDIAKHLIEKQIDALPVIKDTDKGFEVIGRVTKT
NMTKILVSLSENEIL
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000
>DM_train2035
GMDVTIERVNDFDGYNWLPLLAKSSQEGFQLVERMLRNRREESFQEDGEAMFVALSTTNQVLACG
GYMKQSGQARTGRIRHVYVLPEARSHGIGTALLEKIMSEAFLTYDRLVLYSEQADPFYQGLGFQLVSG
EKITHTLDKTAFADSNR
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000
>DM_train2036
MGSDKIHHHHHHHMQARWIGNMMFHVRTDSNHDVLMDTKEEVGGKDAAPRPLELVLTGLMGCTG
MDVVSILRKMKVIDQMKDFRIEIEYERTEEHPRIFTKVHLKYIFKFDGEPPKDKVEKAVQLSQEKYCS
VSAILKCSSKVTYEIVYEN
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000001
>DM_train2037
MSSTKRQKNRVLVKLKKRKVRKDKIEKWAELALSALGLNNVELSVYITDDQEIRELNKTYRKKDKP
TDVLSFPMGEEFGGYKILGDVVISQDTAERQARELGHSLEEEVKRLIVHGIVHLLGYDHEKGGEEEKK
FRELENYVLSKLSKAL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000011
>DM_train2038
ADVSAAVGATGQSGMTYRLGLSWDWDKSWWQTSTGRLTGYWDAGYTYWEGGDEGAGKHSLSFAP
VFVYEFAGDSIKPFIEAGIGVAAFSGTRVGDQNLGSSLNFEDRIGAGLKFANGQSVGVRAIHYSNAGLK
QPNDGIESYSLFYKIPI
00000000000000000000000000000000000000000000000001111000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000
>DM_train2039
MTNRLSWQDYFMANAELISKRSTCNRAYVGAVLVKNNRIIATGYNGGVADTDNCDDVGHEMEDGH

CIRTVHAEMNALIQCAKEGISANNTEIYVTHFPCINCTKALLQAGVKKITYNTAYRIHPFAIELMTQKE
VEYVQHDVPRVKLGEK
1110000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000001
>DM_train2040
MKDKVYKRPVSILVVIYAQDTKRVLMLQRRDDPDFWQSVTGSVEEGETAPQAAMREVKEEVTIDVV
AEQLTLIDCQRTVEFEIFSHLRHRYAPGVTRNTESWFCLALPHERQIVFTEHLAYKWLDAPAAAALT
KSWSNRQAIEQFVINAA
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000111
>DM_train2041
GQHTLKQFAADSALTTTTPLCSEVPLFDINALGDWTYLGTSLPAKFAKLFASILHCIDDEYFLITPVEK
VRVQVEDAPLLIVDFERAQPHSLLNVSTSIGTLHHNVDIKQMKLTDDSVYLPLERGLWGKLGRACYY
NFVNEFNLSDLNEQ
1111111111111111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000011
>DM_train2042
MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEHCSPHHTALRQAILCWGELMTL
ATWVGNNLEDPASRDLVVNYVNTNMGLKIRQLLWFHISCLTFGRETVLEYLVSFGVWIRTPPAYRPP
NAPILSTLPETTVV
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
1111111
>DM_train2043
MTSKIEQPRWASKDSAAGAASTPDEKIVLEFMDALTSNDAAKLIEYFAEDTMYQNMPLPPAYGRDA
VEQTLAGLFTVMSIDAVETFHIGSSNGLVYTERVDVLRALPTGKSYNLSILGVFQLTEGKITGWRDYF
DLREFEEAVDLPLRG
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train2044
ATSTKKLHKEPATLIKAIDGDTVKLMYKGQPMTFRLLLVDTPETKHPKKGVEKYGPEASAFTKKMV
ENAKKIEVEFDKGQRTDKYGRGLAYIYADGKMVNEALVRQGLAKVAYVYKGNNTHEQLLRKSEAQA
KKEKLNIWSEDNADSGQ
1111100000000000000000000000000000000000000011111100000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
1111111
>DM_train2045
MKLERVTVKNFRSHSDTVVEFKEGINLIIGQNGSGKSSLLDAILVGLYWPLRIKDIKKDEFTKVGARD
TYIDLIFEKDGTKYRITRRFLKGYSSGEIHAMKRLVGNEWKHVTEPSSKAISAFMEKLIPYNIFLNAIY
IRQGQIDAILES

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111000000000000000000000000000000000000000000000000
0000000
>DM_train2046
QFLFSMSTGPFICTVKDNQVFVANLPWTMLEGDDIQVGKEFAARVEDCTNVKHDMAPTCTKPPPFC
GPQDMKMFNFVGCSVLGNKLFIDQKYVRDLTAKDHAEVQTFREKIAAFEEQQENQPPSSGMPHGA
VPAGGLSPPPPPSFCTVQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111111111111111111100000
0000000
>DM_train2047
ASPIGEGTFDDGPEGWVAYGTDGPLDTSTGALCVAVPAGSAQYGVGVVLNGVAIEEGTTYTLRYTATA
STDVTVRALVGQNGAPYGTVLDTSPALTSEPRQVTETFTASATYPATPAADDPEGQIAFQLGGFSADA
WTLCLDDVALDSE
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train2048
ETVSTQELYSIPEDQEPEDQEPEEPTPAPWARLWALQDGFANLECVNDNYWFGRDKSCEYCFDEPL
LKRTDKYRTYSKKHFRIFREVGPKNSYIAYIEDHSGNGTFVNTELVGKGKRRPLNNNSEIALSLSRNK
VFVFFDLTVDDQSVY
11111111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0011111
>DM_train2050
MNISEINGFEVTGFVVRTTNADEMNPMTAKIGNLWEKFYLNAAPKLTDKSKVYGLYTNYESDFTGA
FDVIACSDTLSPQLLSESVKTKVSSGKYVTFSATGEMPQVVIDLWNEVWNYFASEHCPHKRAYTTDF
EYYKSANTVEISIAVR
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011100000000000000000000
0000000
>DM_train2051
GAQNEKNMYSYKKIGNKYIVSINNHTEIVKALNAFCKEKGILSGSINGIGAIGELTLRFFNPKTKAYDD
KTFREQMEISNLTGNISSMNEQVYLHLHITVGRSDYSALAGHLLSAIQNGAGEFVVEDYSERISRTYN
PDLGLNIYDFER
11111100000000000000000000000000000000000000000000000000000000111100000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train2052
MATKLDYEDAVFYFVDDDKICSRDSIIDLIDEYITWRNHVIVFNKDITSCGRLYKELMKFDDVAIRYY
GIDKINEIVEAMSEGDHYINFTKVHDQESLFATIGICAKITEHWGYKKISESRFQSLGNITDLMTDDNI
NILILFLEKKLN
11111000000000000000000000000000000000000000000000000000000000000000000
00000000001100000000000000000000000000000000000000000000000000000000000

0000000
>DM_train2053
MGIVTGPIIDHSKENDVMNEAEQNAETVRRGYAAFNSGDMKTLTELFDENASWHTPGRSRIAGDHK
GREAIFAQFGRYGGETGGTFKAVLLHVLKSDDGRVIGIHRNTAERGGKRLDVGCCIVFEFKNGRVIDG
REHFYDLYAWDEFWR
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train2054
MPLPPDITFDSLALIKMHSQNMKRILEVTLAKFTVNLSIVTVYRYLTARAYLKKNIEAEFEILKDIYNI
VPLLDDIAIKAAQIEANLIKKEITLDMEDIITATTAIYTNSLLVTDDPKRYEPIRRFGLDTMPLDKFIKE
VELMVEKELI
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0001111
>DM_train2055
EARPIVVGPPPPLSGGLPGTENSDQARDGTLPYTKDRFYLQPLPPTEAAQRAKVSASEILNVKQFIDR
KAWPSLQNDLRLRASYLRYDLKTVISAKPKDEKKSLQELTSKLFSSIDNLDHAAKIKSPTEAEKYYGQ
TVSNINEVLAKLG
0000000000001111111111111111111000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train2056
MEQRSAETRIVEALLERRRLKDTDLVRARQLQAESGMGLLALLGRLGLVSERDHAETCAEVLGLPLV
DARQLGDTPPEMLPEVQGLSLRFLKQFHLCPVGERDGRLDLWIADPYDDYAIDAVRLATGLPLLLHV
GLRSEIDDLIERWYG
0000000000000000000000000000011100000000000000000000000000000000000000
0000000011000000000000000000000000000000000000000000000000000000000000
0000000
>DM_train2057
GMEIHFEKVTSDNRKAVENLQVFAEQQAFIESMAENLKESDQFPEWESAGIYDGNQLIGYAMYGRW
QDGRVWLDRFLIDQRFQGQGYGKAACRLLMLKLIEKYQTNKLYLSVYDTNSSAIRLYQQLGFVFNGE
LDTNGERVMEWTHQNK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000011
>DM_train2058
GMTDWQQALDRHVGVGVRTTRDLIRLIQPEDWDKRPISGKRSVYEVAVHLAVLLEADLRIATGATA
DEMAQFYAVPVLPEQLVDRLDQSWQYYQDRLMADFSTETTYWGVTDSTTGWLLEAAVHLYHHRS
QLLDYLNLLGYDIKLDLFE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000001
>DM_train2059

GMLVRTLSALECTKVLTANRVGRLACAKDGQPYVVPLYYAYSDAHLYAFSMPGKKIEWMRANPRVSV
QVDEHGQGRGWKSVVVDGRYEELPDLIGHKLQRDHAWSVLSKHTDWWEPGALKPVTPPTADSAP
HVFFRILIEQVSGREASE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111110000000000000
0000000
>DM_train2060
STGKKPKHHVLSHDIIPASKPIAEKLQIQPESPVVELKRILYNDDQPLTFEVTHYPLDLFPGIDTFIADG
VSMHDILKQQYKVVPTHNTKLLNVVYAQQEESKYLDCDIGDALFEIDKTAFTSNDQPIYCSLFLMHT
NRVTFTINSPYT
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0001111
>DM_train2061
TTSGALFPSLVPGSRGSSTKYLVEFRAGKMSLKGTTVTPDKRKGLVYIQQTDDSLIHFCWKDRTSGTV
EDDLIIFPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNECLNNPPMPG
SLGASGSSGHELSAL
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111111111111
1111111
>DM_train2062
DPATVFRLVAAEALTLTGADGTLVAVPADPDASAAEELVIVEVAGAVPAEVEASAIPVQDNAIGQAFRD
RAPRRLDVLDGPGLGGPALVLPLRATDTVAGVLVAVQGSGARPFTAEQLEMMTGFADQAAVAWQLA
SSQRRMSELDILAD
00000000000000000000000000001111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
1111111
>DM_train2063
MIPMEELKVKKITNGTVIDHIDAGKALMVFKVLNVPKETSVMIAINVPSKKKGKKDILKIEGIELKKE
DVDKISLISPDVTINIIRNGKVVEKLKPQIPDEIEGTLKCTNPNCITNKEKVRGKFKIESKNPLKIRCYY
CEKFLNEVIFE
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000001
>DM_train2064
TDLSAQKRLAADVLDVGKNRVWFNPERQGDIADAITREDVRELVDEGAIQAKDKKGNSRGRARERQ
KKRAKGHQKGAGSRKGKAGARQNSKEDWESRIRAQRTKLRELRDEGTLSSSQYRDLYDKAGGGEFD
SVADLERYIDANHGDA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
011111
>DM_train2065
KYKALAREAALSKIGELASEIFAEFTEGKYSEVVVRAEENKVRLFVVWEGKERPLTFLSGGERIALGL
AFRLAMSLYLAGEISLLILDEPTPYLDEERRRKLITIMERYLKKIPQVILVSHDEELKDAADHVIRISLE

NGSSKVEVVS
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train2066
MANLFKLGAENIFLGRKAATKEEAIRFAGEQLVKGGYVEPEYVQAMLDREKLTPTYLGESIAVPHGT
VEAKDRVLKTGVVFCQYPEGVRFGEEEDDIARLVIGIAARNNEHIQVITSLTNALDDESVIERLAHTTS
VDEVLELLAGRK
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000111
>DM_train2067
MSNEDLFICIDHVAYACPDADEASKYYQETFGWHELHREENPEQGVVEIMMAPAAKLTEHMTQVQV
MAPLNDESTVAKWLAKHNGRAGLHHMAWRVDDIDAVSATLRERGVQLLYDEPKLGTGGNRINFM
HPKSGKGVLIELTQYPKN
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train2068
MKVALGGTFEPLHEGHKKLIDVAIKLGGRDITIGVTSDRMARARIRSVLPFAIRAENVKRYVMRKYGF
EPEIVKITNPYGKTLDVDFEYLVVSPETYEMALKINQKREELGKRKITIVKVDWMMAEDGKPISSTRI
KRGEIDRYGGII
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111111111111111
111111
>DM_train2069
DVTPLSLGIETLGGIMTKLITRNTTIPTKKSQVFSTAADGQTQVQIKVFQGEREMATSNKLLGQFSLV
GIPPAPRGVPQVEVTFDIDANGIVNVSARDRGTGKEQQIVIQSSGGLSKDQIENMIKEAEKNAAEDAK
RKELVEVINQAE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111000000000000000000000
000000
>DM_train2070
SPAPSRPFSVLRANDVLWLSLTAAEYDQSTYGSSTGPVYVSDSVTLVNVATGAQAVARSLDWTKVTL
DGRPLSTIQQHSKTFFVLPLRGKLSFWEAGTTKAGYPYNYNTTASDQLLVENAAGHRVAISTYTTSL
GAGPVSISAVAVLA
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train2071
MNYSHPISLKTLVQEDDIGVNAPIIHQSVIARLTAGLYPLYQSKKIPFEPLPETMLTEGYSSPVPDVLLY
DHQTEEAKVIIEVCQNSGLKHDTSKIVKLIEDNAYGILEGFVFNYKTQQWLRYRLGDGGVATNSSFSE
VLQVDLNTFV
11100000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train2072
SMLPVLTLQHFQHMHIKVGDRAELRRAFTQTDVATFSELTGDVNPLHLNEDFAKHTKFGNTIVHGV
LINGLISALLGTKMPGPGCVFLSQEISFPAPLYIGEVVLASAEVKKLKRFIAIIAVSCSVIESKKTVMEG
WVKVMVPEASKS
1111111111111000000000000000000000000000000000000011111111111000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000001
>DM_train2073
GHMTLYRLHEADLEIPDAWQDQSINIFKLPASGPAREASFVISRDASQGDAPFADYVARQLENAEKQL
PGFKLHKRWDINIHGHAAVLLDYQWQREGRDLMLRQVFIERRPAVLITTLTTTPADLPHHEPAWKQ
AMQTLVPRPTPSGS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
001111
>DM_train2074
RASVGSPGIPAQDLPFVIKAGYLEKRRKDHSFLGFEWQKRWCALSKTVFYYYGSDKDKQQKGEFAID
GYDVRMNNTLRKDGKKDCCFEICAPDKRIYQFTAASPKDAEEWVQQLKFILQDLGSDVIPEDDEER
GELYDDVDHPAAVSS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001111111111111111111111
111111
>DM_train2075
MKTPTFGKREETLTYQTRYAAYIIVSKPENNTMVLVQAPNGAYFLPGGEIEGTETKEEAIHREVLEEL
GISVEIGCYLGEADEYFYSNHRQTAYYNPGYFYVANTWRQLSEPLERTNTLHWVAPEEAVRLLKRGS
HRWAVEKWLAAAS
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000010000000000000000000000000000
000000
>DM_train2076
VSYAGDITPLQAWEMLSDNPRAVLVDVRCEAEWRFVGVPDLSSLGREVVYVEWATSDGTHNDNFL
AELRDRIPADADQHERPVIFLCRSGNRSIGAAEVATEAGITPAYNVLDGFEGHLDAEGHRGATGWRA
VGLPWRQGRSHHHHHH
1000000000000000000000000000000000000000000000000000000000000000000000
0011111110000000000000000000000000000000000000000000000000000000000011
111111
>DM_train2077
GMATSTDRTQEIQKLHELIKNIDYGMFTTVDDDGSLHSYPMSKSGDINSEATLWFFTYAGSHKVTEI
EHHEQVNVSFSSPEQQRYVSISGTSQLVKDRNKMRELWKPELQTWFPKGLDEPDIALLKVNINQVN
YWDSTSSFKPQTISF
1111100000000000000000000000000000000000000111000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000

>DM_train2078
GFQSNAMKQETPITLHVKSVIEDDGNQEVIEFRTTGFYYVKQNKVYLSYYEEHDLGKVKTIVKVSEG
EVLVMRSGAVKMNQRFVTGASTIAKYKMSFGELELKTSTKSIQSDLDEEKGRISIAYDMHVGDEQEH
LHNMTITYEGGTHA
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001111000000000000
000011
>DM_train2079
SNAARGHRHTCKVMVLKEEAAGSERALALDMREGQRVFHSLIVHFENDIPVQIEDRFVNAQVAPDY
LKQDFTLQTPYAYLSQVAPLTEGEHVVEAILAEADECKLLQIDAGEPCLLIRRRTWSGRQPVTAARLI
HPGSRHRLEGRFTK
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train2080
GPLGSGGGTIAMLNEISSDTLEQLYSLAFNQYQSGKYEDAHKVFQALCVLDHYDSRFFLGLGACRQA
MGQYDLAIHSYSYGAVMDIKEPRFPFHAAECLLQKGELAEAESGLFLAQELIANKPEFKELSTRVSSM
LEAIKLKKEMKHE
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111111
111111
>DM_train2081
GMSAGQSSLSFAHGDETHPIEQKAFIGVDSAAGNVVKQFHAALQMGNEAIVRQSLAANVQIYEGGKV
ERSLTEYANHHMLADMAYLKGLTITPKEHQITITGDIAISTSISHAQGEYKGKSIDSMTMETLVLIKQA
DGRWKITHVHWS
11111111111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000
>DM_train2082
SFDKTTFRLLRGESNLFYTLAKWENNKLHVELPENIDKQSPTMTLIYDENGQLLWAQRDVPWLMK
MIQPDWLKSNGFHEIEADVNDTSLLLSGDHSIQQQLQEVRQNNNNAQMTHSVAVNVYPATSRMPK
LTIVVVDTIPVELKSSYM
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000011
>DM_train2083
AHGSVVKSEDYALPSYVDRRDYPLPDVAHVKNLSASQKALKEKEKASWSSLSIDEKVELYRLKFKESF
AEMNRSTNEWKTVVGAAMFFIGFTALLLIWEKHYVYGPIPHTFEEEWVAKQTKRMLDMKVAPIQG
FSAKWDYDKNEWKK
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train2085
GPHMTTIEDEDTKVRKQEIIKVTEQLIEAISNGDFESYTKMCDPGMTAFEPEALGNLVEGLDFHRFY

FENLWSRNSKPVHTTILNPHIHLMGDESACIAYIRITQYLDAGGIPRTAQSEETRVWHRRDGKWQIV
HFHRSGAPSVLPH
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
01111
>DM_train2086
ADLTSHHHHHHVEPARITLTYKEGAPITIMDNGNIDTELLVGTLTLGGYKTGTTSTSVNFTDAAGDP
MYLTFTSQDGNNHQFTTKVIGKDSRDFDISPKVNGENLVGDDVVLATGSQDFFVRSIGSKGGKLAAG
KYTDAVTVTVSNQ
11111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011110000000000000000000000000000000
00000
>DM_train2087
MRQDAEVIMKLTDADNAADGIFFPALEQNMMGAVLINENDEVMFFNPAAEKLWGYKREEVIGNNI
DMLIPRDLRPAHPEYIRHNREGGKARVEGMSRELQLEKKDGSKIWTRFALSKVSAEGKVYYLALVR
DASVEMAQKEQTRQLI
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000011111111110000000000000000000000000000000001111111111
11111
>DM_train2088
MTPGKLYTLRYEVEGGGFIEIATVRPETVFADQAIAVHPEDERYRHLLGKRARIPLTEVWIPILADPAV
EKDFGTGALKVTPAHDPLDYEIGERHGLKPVSVINLEGRMEGERVPEALRGLDRFEARRKAVELFRE
AGHLVKEEDYT
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001
>DM_train2089
TLHKERRIGRLSVLLLLNEAEESTQVEELERDGWKVCLGKVGSMDAHKVIAAIETASKKSGVIQSEGY
RESHALYHATMEALHGVTRGEMLLGSLLRTVGLRFAVLRGNPYESEAEGDWIAVSLYGTIGAPIKGLE
HETFGVGINHI
00000000000000000001111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train2090
AFMSQMMQMYQQVGPAQFSAMIGQFAPYFASIAPQFVELRPGYAEVTFPKRREVLNHIGTVHAIALC
NAAELAAGTMTDASIPAGHRWIPRGMTVEYLAKATGDVRAVADGSQIDWQATGNLVVPVVAYVDD
KPVFRAEITMYVSQA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train2091
MSMPRYYEYRHVVGFEETNLVGNVYYVNYLRWQGRCREMFLYEHAPEILDELRADLKLFTLKAECE
FFAELAPFDRLAVRMRLVELTQTQMELGFDYLRLGGDDLLVARGRQRIACMRGPNGRTEPVRVPAGL
VRAFAPFRSATVGQ

1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
11111
>DM_train2092
MRSLLILVLCFLPLAALGKVFGRCELAAAMKRHGLDNYRGYSLGNWVCAAKFESNFNTQATNRNTD
GSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNCAKKIVSDGNGMNAWVAWRNR
CKGTDVQAWIRGCRL
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000
>DM_train2093
MSNTLFDDIFQVSEVDPGRYNKVCRIEAASTTQDQCKLTLDINVELFPVAAQDSLTVTIASSLNLEDT
PANDSSATRSWRPPQAGDRSLADDYDYVMYGTAYKFEEVSKDLIAVYYSFGGLLMRLEGNYRNLNN
LKQENAYLLIRR
0000000000000000000000000000000000000000000000000000000000000011111111
1111000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2095
ICYDAFVSYSERDAYWVENLMVQELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTVFVLSEN
FVKSEWSKYELDFSHFRLFDENNDAAILILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEAQREG
FWVNLRAAIKS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000111111111110000000000000000000000000000000000000000000000000
0000
>DM_train2096
VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQKVTGLDFIPGLHPILTLSKMDQTLAVYQQILTSMPS
RNVIQISNDLENLRDLLHVLAFSKSCHLPEASGLETLDSLGGVLEASGYSTEVVALSRLQGSLQDMLW
QLDLSPGC
0000000000000000000000001111111111111100000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2097
MLDQQTINIIKATVPVLKEHGVTITTTFYKNLFAKHPEVRPLFDMGRQESLEQPKALAMTVLAAAQ
NIENLPAILPAVKKIAVKHCQAGVAAAHYPIVGQELLGAIKEVLGDAATDDILDAWGKAYGVIADVFIQ
VEADLYAQAVE
0000000000000000000000000000000000000000001111111100000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2099
MAESQALSDDIGFLLSRVGGMVLGAVNKALVPTGLRVRSYSVLVLACEQAEGVNQRGVAATMGLDPS
QIVGLVDELEERGLVVRTLDPSDRRNKLIAATEEGRRLRDDAKARVDAAHGRYFEGIPDTVVNQMR
DTLQSIAFPTFVE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000111111111110000000000000000000000000000000000000000000000

1111
>DM_train2100
GETVVRDAVTIGKPAEQLYAVWRDLPGLPLLMTHLRSVEVLDDKRSRWTVEAPAPLGTVSWEAELT
ADEPGKRIAWRSLPGARIENSGEVLFRPAPGARGTEVVVRLTYRPPGGSAGAVIARMFNQEPSQQLR
DDLMRFKREQELG
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111111111000000000000000000
0000
>DM_train2101
GGEGTDAIQALIQAYFTAWNTNAPERFAEIFWPDGSWVNVVGMHWRGRDQIVFAHTAFLKTIFKDC
KQELVTIEARTIAPGSALAVVTLIQDAYVTPDGRQMPRAHDRLTLLAVEREGVWRFIHGHNTIVNPD
AANNDPVLRMKPA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0111
>DM_train2102
STAADLLRQGAACSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFKVSAQGITLTDNQRKL
FFRRHYPVNSITFSSTDPQDRRWTNPDGTTSKIFGFVAKKPGSPWENVCHLFAELDPDQPAGAIVTF
ITKVMLGQRK
00000000000000000000000000000000000000000011100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0111
>DM_train2103
GQDRSPIETQNVETVLRLFDEGWGAQDGWRDVWRETMTPGFRSIFHSNQAVEGIEQAIAFNAVLFE
GFPRLEVVVENVTVEGDNVVVQARLTGAQDGPFLGVPPSGQMVDVPDVTLFTLADGQVIEMRYFTD
LLAVMTAISAPPEN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0011
>DM_train2104
MSSERTFLPNGNYKIKSLFSDSLYLTYSSGSLSFLNTSSLDNQKWKLEYISSSNGFRFSNVAEPNKYLA
YNDYGFIYLSSSSNNSLWNPIKIAINSYIICTLSIVNVTDYAWTIYDNNNNITDQPILNLPNFDINNSNQ
ILKLEKL
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2105
MVKRTSHKQASCPVARPLDVIGDGWSMLIVRDAFEGLTRFGEFQKSLGLAKNILAARLRNLVEHGV
MVAVPAESGSHQEYRLTDKGRALFPLLVAIRQWGEDYFFAPDESHVRLVERDSGQPVPRLQVRAGDG
SPLAAEDTRVSRD
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0001
>DM_train2106

GHMAQTDKHYFGTLLAQTSRAWRAELDRRLSHLGLSQARWLVLLHLARHRDSPTQRELAQSVGVE
GPTLARLLDGLESQGLVRRLAVAEDRRAKHIVLTPKADVLIADIEAIAASVRNDVLTGIDESEQALCQQ
VLLRILANLENR
1111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2107
MAQERPSCAVEPEHVQRLLLSSREAKKSAYCPYSRFPVGAALLTGDGRIFSGCNIENACYPLGVCAER
TAIQKAISEGYKDFRAIAISSDLQEEFISPCGACRQVMREFGTDWAVYMTKPDGTFVVRTVQELLPAS
FGPEDLQKIQ
1111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0011
>DM_train2108
MIEVKPINAEDTYELRHRILRPNQPIEACMFESDLLRGAFHLGGYYGGKLISIASFHQAEHSELQGQK
QYQLRGMATLEGYREQKAGSSLIKHAEEILRKRGADLLWCNARTSASGYYKKLGFSEQGEVFDTPPV
GPHILMYKRIT
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2109
SNAIYGYVEKATLIDQNLTLSAKLDTGAKSASLHAVNITEIEKKGIPYLRFTVPTKTGDYSFEGEYVGK
VKIKVRSSETNPGLLRTTPIKRPVVLLNIKLGDKVRTIKVNLTNRKRFLYPLLLGRDAIIDFNGAVDPA
LTFTTKSK
0000000000000000000000000000000000000000000000000000000000000000000001
1111111111111111000000000000000000000000000000000000000000000000000000
0011
>DM_train2110
MESVADIQQLEEKVDESDVRIYFNEKSSGGKISIDNASYNARKLGLAPSSIDEKKIKELYGDNLTYEQY
LEYLSICVHDKDNVEELIKMFAHFDNNCTGYLTKSQMKNILTTWGDALTDQEAIDALNAFSSEDNID
YKLFCEDILQ
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2111
MSHDVKELIEGLNEDLAGEYSAIIMYNHNAATVSGIYRQVLKPFFESEISDEQGHALYLAEKIKTLGG
TPTTIPLRVKQAEDVREMLEYARQSEYETIKRYEKRKEQAANLNMTELVVKLEDMIADETNHMEEL
DRLLNDKAMVLN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000011
1111
>DM_train2113
AREGIIGHYIHHNQRVGVLVELNCETDFVARNELFQNLAKDLAMHIAMMNPRYVSAEEIPAEELEKE
RQIYIQAALNEGKPQQIAEKIAEGRLKKYLEEVVLLEQPFVKDDKVKVKELIQQAIAKIGENIVVRRFC

RFELGAMMC
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
111
>DM_train2114
MMGIMSDPITILDSSDSLSRLSSESVGRLVVHRKDDLDIFPVNFVLDYSAEQPRVYFRTAEGTKLFSV
NLNSDVLFEVDRFDDAEGWSVVLKGNAYVVRDTEEARHADTLGLKPWLPTLKYNFVRIDVREVSG
RAFVFGEEPERY
1111110000000000000000000000000000000000000000000000000110000000000
0000000000011000000000000000000000000000000000000000000000000000011111
111
>DM_train2115
MRNKNMSTIYQTSATASAGRNGVVSTEDKLLELNLSYPKEMGGSGTATNPEQLFAVGYAACFSNAIL
HVAREAKVALKEAPVTATVGIGPNGQGGFALSVALAAHIALEDEQARQLVTVAHQVCPYSNAVRGNID
VQVSVNGLAL
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train2116
MSNPQPEKVRVVVGDDHPLFREGVVRALSLSGSVNVVGEADDGAAALELIKAHLPDVALLDYRMPG
MDGAQVAAAVRSYELPTRVLLISAHDEPAIVYQALQQGAAGFLLKDSTRTEIVKAVLDCAKGRDVVAP
SLVGGLAGEIR
1111111111000000000000000000000000000000000111111111110000000000111111
1111111111110000000011111111110000000000000000000000001111111111111111
111
>DM_train2117
KPQIPKDKSKVAGYIEIPDADIKEPVYPGPATPEQLNRGVSFAEENESLDDQNISIAGHTFIDRPNYQF
TNLKAAKKGSMVYFKVGNETRKYKMTSIRDVKPTDVGVLDEQKGKDKQLTLITADDYNEKTGVWE
KRKIFVATEVK
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111111111000000000000000000000000000
000
>DM_train2118
MDELLNRLRQTWHSTIPVSEFMQIAPLSFTDGELSVSAPLAPNINLHHTMFAGSIYTIMTLTGWGMV
WLQQQLLNVDGDIVLADAHIRYLAPVTSAPEVKVRWPDTNLSPLQRGRKAKVKLEVQLFCDGKLCA
QFDGLYVSVPKM
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111110000000000000000000000000000000
011
>DM_train2119
GSMKQPFERILREICFMVKVEGRKVLRDFGITPAQFDILQKIYFEGPKRPGELSVLLGVAKSTVTGLVK
RLEADGYLTRTPDPADRRAYFLVITRKGEEVIEKVIERRENFIEKITSDLGKEKSSKILDYLKELKGVM
ERNFSKQ
1110000000000000000000000000000000000000000000000000000000000000000000

000000000001111000000000000000000000000000000000000000000000000000000
001
>DM_train2120
ERVPEGSIRVAIASNNGEQLDGHFGSCLRFLVYQVSAKDASLVDIRSTLDVALAEDKNAWRVEQIQDC
QVLYVVSIGGPAAAKVVRAGIHPLKKPKGCAAQEAIAELQTVMAGSPPPWLAKLVGVSAEERVRFSVS
DDEDEAARA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011111111111111111111
111
>DM_train2121
MAAHELKEALETLKETGVRITPQRHAILEYLVNSMAHPTADDIYKALEGKFPNMSVATVYNNLRVF
RESGLVKELTYGDASSRFDFVTSDHYHAICENCGKIVDFHYPGLDEVEQLAAHVTGFKVSHHRLEIYG
VCQECSKKENH
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
001
>DM_train2122
MSMAERKALCLEMVAAWNRWDLSGIIKHWSPDIVHYSEDNEVSSADMVKLMEGGLKAFPDLQLE
VKSIMAEEDRVALRITVTATHQGEFMGVQPTGQRVSWHLVEELRFVDGKVVEHWDVINMRPLLVRL
GKLPDVPKVVLEASA
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000011111111
111
>DM_train2123
GSHHPFTAQIVAVTASGYDSEKGHVPANIADGDVKTRWAASGESWVQLELDKEQSIENILIVPFKPTE
RKLKFSIFYSNDGKNWQPLAEGLETSSADKNGEKLTFTPVTAKYIKLDTFGTDVNNWSAINEIAINS
AAALPSRAIK
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train2124
ATSANTDRIATAELGIAENKKDAQIAKAQANENKDGIAKNQADIQLHDKKITNLGILHSMVARAVGN
NTQGVATNKADIAKNQADIANNIKNIYELAQQQDQHSSDIKTLAKVSAANTDRIAKNKAEADASFET
LTKNQKLCSQA
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000011
111
>DM_train2125
MDVQRVGKAGLHRVDSKKQQTAAGVSFSEVMGKQRDEKAYERLQALMSKIDDQGKLLSETRTIEEL
RKYKELVKEFVGDAVELGLRLEERRGFNRRGRTKIYKIVKEVDRKLLDLTDAVLAKEKKGLDILNMV
GEIKGLLINIYA
111111111111111111111110000000000000000000000000000000000000000000000000
000000000000000000011100000000000000000000000000000000000000000000000000
000

>DM_train2126
MRGSHHHHHHGSMSNINLVQLVRDSLFTIGCPPSIITDLDSHSAITISLDSMPAINIALVNEQVMLWA
NFDAPSDVKLQSSAYNILNLMLMNFSYSINELVELHRSDEYLQLRVVIKDDYVHDGIVFAEILHEFYQ
RMEILNGVL
1111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train2127
RPRGPRAVFILPVTAQGEAVLIRQFRYPLRATITEIVAGGVEKGEDLGAAAARELLEEVGGAASEWVP
LPGFYPQPSISGVVFYPLLALGVTLGAAQLEDTETIERVVLPLAEVYRMLEAGEIQDGPSSLTLWQAR
GELTRRGLL
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111111000000000000000000000000000000000000000
000
>DM_train2128
GSHMPLPIPSLLIAGIGCRRGCSAEHLRALLERTLGEHGRSLAELDALASIDGKRDEPGLRQLATLLER
PVHFLAPAVLHDYEPRLLSPSAVALRETGCSSVAEAAALALAERLGGGRADLLGAKRSDDRASIALAR
LLTERELP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
111
>DM_train2129
MSATGLEVFDRTLHKTHAWLKAIMEELGTEDRHKAYLALRAVLHALRDRLTVEEVAQLAAQLPML
VRGLYYEGWDPTGKPLKERHKEAFLAHVAEELKTPSGPAVDPEAATRAVFKVLSREISQGELEDVLG
LLPKELRALWPQG
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train2130
GMDISLLKQVVQSTNKIALSTAVNNEADVKIVNFVWYEAQPDTLYFSSVKTSPALKVYDQNPDIAFIT
IPNDGTAGNPYLRAQHVKLQRSTKTMTDLLPQYLETVPNYQQVWDAIGSTLVVFELKLTDLFVDAG
VGGEKQTLTFN
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
001
>DM_train2131
STARMQGAGKALHELLLSAQRQGCLTAGVYESAKVLNVDPDNVTFCVLAADEEDEGDIALQIHFTLI
QAFCCENDIDIVRVGDVQRLAAIVGSDEEGGAPGDLHCILISNPNEDTWKDPALEKLSLFCEESRSFN
DWVPSITLPE
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111110000000000111110000000000000000000000000
000
>DM_train2132
GMEVIESKWYKKDGASSASIDDVEKLLNTTLPKQYKSFLLWSNGGEGKLGDNYIYIWAIEDVIAYNH

DYGIQKYLQKEYWAFGMDGDIGYILHLSDNSIYRVDLGDLDITSIKYIAPSFDDFLGKAIYLNFNKLQN
VANNNLTT
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111
11
>DM_train2133
MYFVDRSKIEKTLGFFEHQLALFDSQTDWQSEIGELALQRIGHLLIECILDTGNDMIDGFIMRDPGSY
DDIMDILVDEKVVTEKEGDELKKLIAYRKTLVQQYLLADSGELYRLIKAHQTALQDFPKRIRSYLETEL
GPVSAFK
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
01
>DM_train2134
AGSLEIRTKVGEICISKVWLTDEQINKLFDRFKGDYQVVNAECADKVIFATIIAIKAVKEGRSIAKTVPG
EILVRLSGNRQIKEAIKKVGAKEGENYIVTFGENASALLQKILSTLEIKELELERCDLEYAKKAFEDIAII
EAL
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111
11
>DM_train2135
GMDTNGVLYAANMTNALAKEIPESKWDIQLIPELGTLRKLFIHIVRVRDVYRDGLKTGSIKFPGRLAS
DEHRLLDELERSMEELVFEFKQTTFNSIKMGENYLSIMELLGTVIQHEGIHQGQYYVALKQSGINLPK
QWVQDWHM
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
11
>DM_train2136
MTAVRRIRAAALPDLPDASWSNALLVGEELVMSGMTAHPATRQAAERGAALDAHAQALVVLGKVK
ALLEAAGGHVGNLYKLNVYVTRIADKDAIGRARQEFFAGQGTFPASTLVEVSGLVFPELLVEIDAWAR
LDIDLANCDEA
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
11
>DM_train2137
RETHFLKIPIGDLNIITQDNMKSCQMTTPVIDVIQMLTQGRVSSVPIIDENGYLINVYEAYDVLGLIKG
GIYNDLSLSVGEALMRRSDDFEGVYTCTKNDKLSTIMDNIRKARVHRFFVVDDVGRLVGVLTLSDILK
YILLGSN
11000000000000000000000000000000000000000000000000000000000000000000000001
11110000000000001111110000000000000000000000000000000000000000000000000000
11
>DM_train2138
SNAMEIRVFRQEDFEEVITLWERCDLLRPWNDPEMDIERKMNHDVSLFLVAEVNGEVVGTVMGGY
DGHRGSAYYLGVHPEFRGRGIANALLNRLEKKLIARGCPKIQINVPEDNDMVLGMYERLGYEHADVL
SLGKRLIEDEEY

11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11
>DM_train2139
ASRFHEQFIVREDLMGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAVKKARSFLEFAE
DVIQVPRNLVGKVIGKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEGMVPFVFVGTKDSIANATVLL
DYHLNYLK
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train2140
GMELTALDKLEIMELAARFEMSLDKEDVENYLATFASDGALQGFWGIAKGKEELRQGFYAMLDTFA
RGKRHCSSNAIIQGNYDEATMESYLTVVNREDLNRAGSAFVKDQVRKINGKWYLILRQIEVDPSLPL
LQQSQQAGANA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011111111
11
>DM_train2141
MLYLTQRLEIPAAATASVTLPIDVRVKSRVKVTLNDGRDAGLLLPRGLLLRGGDVLSNEEGTEFVQVI
AADEEVSVVRCDDPFMLAKACYHLGNRHVPLQIMPGELRYHADHVLDDMLRQFGLTVTFGQLPFE
PEAGAYASES
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011111
1
>DM_train2142
MQEGVKVVVDSRELRSEVVKRLKLLGVKLEVKTLDVGDYIISEDVAIERKSANDLIQSIIDGGLFDQVK
RLKEAYSRPIMIVEGSLYGIRNVHPNAIRGAIAAVTVDFGVPIIFSSTPEETAQYIFLIAKREQEEREKPV
RIR
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111111
1
>DM_train2143
MSGDRDDPRYPYPKDDAELRRRLTPMQYEVTQHAATEPPFTGEYTDTEDAGIYHCVVCGTALFESG
AKYHSGCGWPSYFKPIDGEVIDEKMDYTHGMTRVEVRCNQCGAHLGHVFEDGPRDKTGLRYCINSA
ALNFEAKPERK
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011
1
>DM_train2144
MTEHSLWRFSRALHRALNDRQTEELATIIDDNIDWAIYGPIDMFPFFGARQGKAAVLEVCRQIADSV
RIYRYHRESVMLGIDSAASMVRYSLTAAGTNRPISVRMALFTQFQNGRLTNLRMVLDTFDLVEQALG
RPIHLPKIA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111111

1
>DM_train2145
MRKIDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVRIERLVIQSYFV
QTLKIEKSTSKEPVDFEQWIEKDLVHTEGQLQNEEIVAHGSATYLRFIIVSAFDHFASVHSVSAEGTVV
SNLSS
1110000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000111
1
>DM_train2146
MGSDKIHHHHHHHMKLSDFIKTEDFKKEKHVPVIEAPEKVKKDEKVQIVVTVGKEIPHPNTTEHHIR
WIKVFFQPDGDPYVYEVGRYEFNAHGESVQGPNIGAVYTEPTVTTVVKLNRSGTIIALSYCNIHGLWE
SSQKITVEE
1111111111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train2147
MTIHKKGQAHWESDIKRGKGTVSTESGVLNQQPYGFNTRFEGEKGTNPEELIGAAHAACFSMALSL
MLGEAGFTPTSIDTTADVSLDKVDAGFAITKIALKSEVAVPGIDASTFDGIIQKAKAGCPVSQVLKAEIT
LDYQLKS
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train2148
GMQDERWNHPLYTTTAINDEELEGHAYIPGGLKVQTSSPMNDHPGTNPEQLLGLSLSTCLEATLEA
VEKEHGLPHTGAVRVKVAFIGARAEYQFLVHAQVMVKGVDFDTAKAFTNEIENRCPVSKLLKNSGN
YTIETVTDFKD
1100000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0
>DM_train2150
MMLLPKRTKFRKQFRGRMTGDAKGGDYVAFGDYGLIAMEPAWIKSNQIEACRIVMSRHFRRGGKIYI
RIFPDKPVTKKPAETRMGKGKGAVEYWVSVVKPGRVMFEVAGVTEEQAKEAFRLAGHKLPIQTKM
VKREVYDEAQ
1111111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011111111111
>DM_train2151
MSHQTGIQASEDVKEIFARARNGKYRLLKISIENEQLVVGSCSPPSDSWEQDYDSFVLPLLEDKQPCY
VLFRLDSQNAQGYEWIFIAWSPDHSHVRQKMLYAATRATLKKEFGGGHIKDEVFGTVKEDVSLHGY
KKYLLSQS
1111110000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2152
GPSDMYVHVGNLIYRNLHLFNSEMHESILVSYSSDLIIYRTNTVGDDYIPSCDCTQATYYCKHKNRYF
PITVTSHDWYEIQESEYYPKHIQYNLLIGEGPCEPGDCGGKLLCKHGVIGIVTAGGDNHVAFIDLRHF

HCAEEQ
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2153
GSHMGQGGSNPKFENIAEGLRALLARSHVERTTDEGTWVAGVFVYGGSKTSLYNLRRGTALAIPQCR
LTPLSRLPFGMAPGPGPQPGPLRESIVCYFMVFLQTHIFAEVLKDAIKDLVMTKPAPTCNIRVTVCSF
DDGVDLP
1111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2154
AESVQPLEKIAPYPQAEKGMKRQVIQLTPQEDESTLKVELLIGQTLEVDCNLHRLGGKLENKTLEGA
AAAYYVFDKVSSPVSTRMACPDGKKEKKFVTAYLGDAGMLRYNSKLPIVVYTPDNVDVKYRVWKAE
EKIDNAVVR
1111111111100000000000000000000000000000000000000000000000000001111100
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2155
MIRVMATGVFDILHLGHIHYLKESKKLGDELVVVVARDSTARNNGKIPIFDENSRLALISELKVVDRAI
LGHEGDMMKTVIEVKPDIITLGYDQKFDEAELQSKINKLGITVKIVRISKYDGQLNSSSSVRKKIMELI
GERY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000011111111111111111111
>DM_train2156
SDRPAGRMPLTVHRNVGRWLSEILHASIRDTGVSSRIEFVRRTLHGWVREEYSETELPNAVYRNLYF
PVLDAQPAHAGSGKIETISECDRLKNLVRNVTDTLVENYPQGLESEALLIALDGVKLELARIRKDIEM
YGDPRKR
1110000000000000000000000000000000000000000000000000000000000000000011
1111111100000000000000000000000000000000000000000000000000000000000111
>DM_train2157
MGSDKIHHHHHHPPEAYSLDTAIFVLETRDYRLSDVKEIDSYGDVEMKGKVAVFETEYGPVFLYVYK
GEEAKKIWKKLNGRAGFVSIRSVLDLPNMGKFSTVSNGKKIVAWWRKNWLFIVEGKNGVEEFVKH
VYRVYEEMKQ
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000111000000000000000000000000000000000000000000000000000000000
>DM_train2158
ATEATNATNNQSTQVSQATSQPINFQVQKDGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASF
WKEYKFYNANNQELATTVVNDNKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEK
AIPTLADAAK
1111111111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2159
DNGCSVAAESTNFTVDLMENAAKQFNNIGATTPVVPFRILLSPCGNAVSAVKVGFTGVADSHNANLL
ALENTVSAASGLGIQLLNEQQNQIPLNAPSSALSWTTLTPGKPNTLNFYARLMATQVPVTAGHINAT
ATFTLEYQ
0000000000000111111111111110000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2160
EGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSHCWISEMVVQLSDSLTDLLDKFSNIS
EGLSNYSIIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSD
CVVS
11111111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111111111
>DM_train2161
FDDVVVSRQEQSYVQRGMVNFLDEEMHKLVKRFRDMRWNLGPGFVFLLKKVNRERMMRYCMDY
ARYSKKILQLKHLPVNKKTLTKMGRFVGYRNYGVIRELYADVFRDVQGFRGPKMTAAMRKYSSKDP
GTFPCKNEKRRG
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2162
MALEPIDYTTHSREIDAEYLKIVRGSDPDTTWLIISPNAKKEYEPESTGSSFHDFLQLFDETKVQYGL
ARVSPPGSDVEKIIIIGWCPDSAPLKTRASFAANFAAVANNLFKGYHVQVTARDEDDLDENELLMKIS
NAAGA
11110000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2163
MPRVVPDQRSKFENEEFFRKLSRECEIKYTGFRDRPHEERQTRFQNACRDGRSEIAFVATGTNLSLQ
FFPASWQGEQRQTPSREYVDLEREAGKVYLKAPMILNGVCVIWKGWIDLHRLDGMGCLEFDEERA
QQEDALAQQ
00000000000000000000000000000000000000000000000000000000000000000000000000001
11111111110000000000000000000000000000000000000000000000000000000000000000
>DM_train2165
EPRFAGYAQKVRDSFARQPVMATLGARIDTLLPGRVELCMPYDRALTQQHGFLHAGIVSTVLDSACG
YAAFSLMEEEAAVLTVEFKVNFLNPAEGERFAFRAEVVKPGRTLTVATATAYAFRDGEERAIATMTAT
LMALIG
11111000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2166
FNVASLKYKHHESIQMIIDRIDHLVLTVSDISTTIRFYEEVLGFSAVTFKQNRKALIFGAQKINLHQQE
MEFEPKASRPTPGSADLCFITSTPINDVVSEILQAGISIVEGPVERTGATGEIMSIYIRDPDGNLIEISQY
V
11111111111111110000000000000000000000000000000000000000000000001111
10000000000000000000000000000000000000000000000000000000000000000001
>DM_train2167
MTENGRYEYIVIGSEAAGVGLVRELTAAGKKVLAVDKSKEKIELLEDEGFDAVIADPTDESFYRSLDLE
GVSAVLITGSDDEFNLKILKALRSVSDVYAIVRVSSPKKKEEFEEAGANLVVLVADAVKQAFMDKIKK
METL
11111000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2168

MRPIPEGYEAVFETVVTPEMTVRFEELGPVHPVYATYWMVKHMELAGRKIILPFLEEGEEGIGSYVE
ARHLASALPGMRVRVVARHEKTEGNRVYARVEAYNELGDLIGVGRTEQVILPKAKVEALFRRLKER
WEAERSPS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2169
MKFLTTNFLKCSVKACDTSNDNFPLQYDGSKCQLVQDESIEFNPEFLLNIVDRVDWPAVLTVAAELG
NNALPPTKPSFPSSIQELTDDDMAILNDLHTLLLQTSIAEGEMKCRNCGHIYYIKNGIPNLLLPPHLV
HHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2170
GMEMTKVTGKFDVKLTPENAYATGVGGVNLGRMALDKTFYGELEARSQGEMLSAMTAVKGSAGYV
AIEQVVGKLCGRQGSFVLQHFGIMTDGQNRLHLEVVPHSGAGELTGLYGTMAISIENGQHFYEFSFCF
EPASEVEG
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2171
MAHHHHHHMGSRISKEAAPVTFKNGKPTVKGTKTYPMFSNILYRIADTEARRWAFYNDSKELIIHV
AVLFDYDSQIVPLGDTTAFRIDDPDEGNEDDFGKYLCEVDVRPLETQMFVEGSVTGWRVDTLEART
AEDERGYRL
11111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2172
GHMENKVINFKKIIDSRGSLVAIEENKNIPFSIKRVYYIFDTKGEEPRGFHAHKKLEQVLVCLNGSCRVI
LDDGNIIQEITLDSPAVGLYVGPAVWHEMHDFSSDCVMMVLASDYYDETDYIRQYDNFKKYIAKINL
EKEG
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2173
GMDQESNATSQDILKQHAAHYESDMGGLPEALVQLAEYAPETFDAYSRMRTTMLKSEADGAKLPLK
YKHLILVVLDAIRDEPIGIVNHTRAAMNAGLSVDELIEGILLGIIVYGMPAWGKTGRKAVTFAVEFEKE
LAGKRT
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2174
NLYFQGMRFVNPIPFVRDINRSKSFYRDRLGLKILEDFGSFVLFETGFAIHEGRSLEETIWRTSSDAQE
AYGRRNMLLYFEHADVDAAFQDIAPHVELIHPLERQAWGQRVFRFYDPDGHAIEVGESLSQSGENLY
FQGGS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000110000
>DM_train2175
NIEQQLYDVVKQLIEQRYPNDWGGAAAIRVEDGTIYTSVAPDVINASTELCMETGAILEAHKFQKKVT
HSICLARENEHSELKVLSPCGVCQERLFYWGPEVQCAITNAKQDIIFKPLKELQPYHWTEAYHDEMV

KEWSTR
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2176
PKQVGNAQHLYDNYDLVPAMIAEVNPRDMVVMALVNTNVDPTLPPRWALATRNITAIPGIEGDTRK
VGTRIPAVAVTGQRSVGNQDSWDQISPMPIAWATPDSSVIARAESTIPSEQWTTLSKNLNKLDQVRE
TKFDLLEL
11111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2177
MAETKIVVGPQPFSVGEEYPWLAERDEDGAVVTFTGKVRNHNLGDSVNALTLEHYPGMTEKALAEI
VDEARNRWPLGRVTVIHRIGELWPGDEIVFVGVTSAHRSSAFEAGQFIMDYLKTRAPFWKREATPE
GDRWVEAR
00000000000000000000000000000000011111111000000000000000000000000000000
000000000000000000000000000000000000000000000000000000001111111111111
>DM_train2178
SGDRSMVEVLADHPGELVRTDSPNFLSSVLPTHWRSNKTLPIAFKVVALGDVPDGTLVTVMAGNDE
NYSAELRNATAAMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKITVDGPREPRR
HRQKLDD
11111111111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000001111111111111
>DM_train2179
MASVDFKTYVDQACRAAEEFVNVYYTTMDKRRRLLSRLYMGTATLVWNGNAVSGQESLSEFFEML
PSSEFQISVVDCQPVHDEATPSQTTVLVVICGSVKFEGNKQRDFNQNFILTAQASPSNTVWKIASDCF
RFQDWAS
11100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2180
GMRNPSEDHMMRTPYQIVADHYAASDRHDPAAMMADIAPAIEWTEMAGFPCAGTYRSADEIVRNV
FRRLGEEWDGYTFKLDALHDAGDTVIGVGRYSGTYRRTGKSFECRVAHVWRVDAGKIVHFEQFTDT
LLVAQAMQP
11111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2181
TDQRWLIDKSALVRLTDSPDMEIWSNRIERGLVHITGVTRLEVGFSAECGEIARREFREPPLSAMPVE
YLTPRIEDRALEVQTLLADRGHHRGPSIPDLLIAATAELSGLTVLHVDKDFDAIAALTGQKTERLTHR
PPSA
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2182
MATEPKAGRPSDYMPEVADDICSLLSSGESLLKVCKRPGMPDKSTVFRWLAKHEDFRDKYAKATEA
RADSIFEEIFEIADNAIPDAAEVAKARLRVDTRKWALARMNPRKYGDKVTNELVGKDGGAIQIETSP
MSTLFGK
11111111100000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000011111111
>DM_train2183
ASRTMVSSGSEFESAVGYSRAVRIGPLVVVAGTTGSGDDIAAQTRDALRRIEIALGQAGATLADVVRTR
IYVTDISRWREVGEVHAQAFGKIRPVTSMVEVTALIAPGLLVEIEADAYVGSAVADRNSGAGPKDPSP
AGG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111111111
>DM_train2184
KVILYARVSSNTQKDDLANQVKYLEEQVKEYDLVITDIGSGLNMKRKGFLKLLRMILNNEVSRVITAY
PDRLVRFGFEILEEVCKAHNCEIVVLNQEDKTPEEELVEDLATILVSFSGKLHGMRSQKYEKVKKCAE
ELKN
00000000000011000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2185
VYGSEVESKIIEFTIVGADEIIAEKLGISVGDFVYKIIRLRIIHSIPTIMEHTWMPISVIPGVEVSVLEESIY
SHIQNKLGLQVGTSVVRVKGIRPDDKEKQFMNLTNQDFLMRVEQVAYLTDGRTFEYSYADHLPETFE
00000000000000000000000000000000000000000000000000000000000001111111
11111111000000000000000000000000000000000000000000000000000000000001
>DM_train2187
MGSDKIHHHHHHHMAYVKERIYESMFIIAPNVPEEERENLVERVKKIIEERVKGKIDKVERMGMRKFA
YEIKKFNEGDYTVIYFRCDGQNLQELENFYRVTPEIIRWQTFRRFDLEKKERKAQREKAAAEATESS
EGGSED
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111111111111111
>DM_train2189
KRKEAVIIMNVAAHHGSELNGELLLNSIQQAGFIFGDMNIYHRHLSPDGSGPALFSLANMVKPGTFD
PEMKDFTTPGVTIFMQVPSYGDELQNFKLMLQSAQHIADEVGGVVLDDQRRMMTPQKLREYQDIIR
EVKDANA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train2190
STVVMADVSQYHVNHLVTFCLGEEDGVHTVEDASRKLAVMDSQGRVWAQEMLLRVSPSQVTLLDP
VSKEELESYPLDAIVRCDAVMPRGRSRSLLLLVCQEPERAQPDVHFFQGLLLGAELIREDIQGALQNY
RSGRGER
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>DM_train2191
MATTAKEEMARFWEKNTKSSRPLSPHISIYKWSLPMAMSITHRGTGVALSLGVSLFSLAALLLPEQF
PHYVAVVKSLSLSPALIYSAKFALVFPLSYHTWNGIRHLVWDMGKGFKLSQVEQSGVVVLILTLLSSAA
IASE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2192
GMSAKDVFHQVVKIALEKDGWQITNDPLTISVGGVNLSIDLGAEKLIAAEREGEKIAVEVKSFLERSS

AISEFHTALGQFINYRGALRRRQPERVLYLAVPLTTYKTFFQLDFPKEMIAENQVKMLIYDVEQEVIF
QWIN
1111100000000000000000000000000000000111111100000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2193
PVFENNNQRYYESLPFKQLKELKIACSQYGPTAPFTIAMIENLGTQALPPNDWKQTARACLSGGDYL
LWKSEFFEQCARIADVNRQQGIQTSYEMLIGEGPYQATDTQLNFLPGAYAQISNAARQAWKRLPSLE
HHHHHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000111111111
>DM_train2194
GAMSVASLPECVKNFFPTEQLEFSSSITADEKPVLHEVFQKHSCFSQCGEMIDEVSKKHPELGKRLAT
VLEGNKKRLDGLSPAAVEYAKKLIHMVTTTLCSLTVGKPIDDADAKRLHQEFQSLSSEDQAALRKNN
PDIKF
0000000000000000000000000000000000000000111100000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2195
MTEKKERIDVHAYLAEFDDIPGTRVFTAQRARKGYNLNQFAMSLMKAENRERFKADESAYLDEWN
LTPAAKAAVLARDYNAMIDEGGNVYFLSKLFSTDGKSFQFAAGSMTGMTQEEYAQMMIDGGRSPAG
VRSIKGGY
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2196
MANAASGMAVHDDCKLRFLELKAKRTHRFIVYKIEEKQKQVVVEKVGQPIQTYEEFAACLPADECRY
AIYDFDFVTAENCQKSKIFFIAWCPDIAKVRSKMIYASSKDRFKRELDGIQVELQATDPTEMDLDVFR
SRAN
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000011111111111
>DM_train2197
MRITQGTFSFLPELTDEQITKQLEYCLNQGWAVGLEYTDDPHPRNTYWEMFGLPMFDLRDAAGILM
EINNARNTFPNHYIRVTAFDSTHTVESVVMSFIVNRPADEPGFRLVRQEEPGRTLRYSIESYAVQAGP
EGSRY
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000001111111111
>DM_train2198
MRGSGQFRVIGPGHPIRALVGDEAELPCRISPGKNATGMEVGWYRSPFSRVVHLYRNGKDQDAEQA
PEYRGRTELLKESIGEGKVALRIQNVRFSDEGGYTCFFRDHSYQEEAAVELKVEDPFYWINPGRSRSH
HHHHH
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000011111111111111111
>DM_train2199
GMKAADFTYVTVHGDNSRMSRLKAQYTMLFFYDPDCSNCRKFEKLFAEIPAFVEMVENGTLRVLAI
YPDENREEWATKAVYMPQGWIVGWNKAGDIRTRQLYDIRATPTIYLLDGRKRVILKDTSMEQLIDY
LATQAGK

000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2200
MGSVVPHYSWFSGITQFQKGKEFQFAEGQGVPIANGIPASEQKGYWYRHNRRSFKTPDGQQKQLLP
RWYFYYLGTGPHAGASYGDSIEGVFWVANSQADTNTRSDIVERDPSSHEAIPTRFAPGTVLPQGFYV
EGSGRS
111110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2201
KVVKFSYMWTINNFSFCREEMGEVIKSSTFSSGANDKLKWCLRVNPKGLDEESKDYLSLYLLLVSCP
KSEVRAKFKFSILNAKGEETKAMESQRAYRFVQGKDWGFKKFIRRDFLLDEANGLLPDDKLTLFCEV
SVVQD
000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2202
GMQTINATEIRNNFSYYIDTVVRDKPIAVKRNRDVLLFFSEQIIKDLLQDLKIHAELSKEDGIIIGTIDG
FDLVVSGESEQEVIQKLAEDLLEYAQDYMNDFKLFYNAPNRKTHYPYILKVLLSSNIDEVKGYIYAEM
V
100000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2203
MGKRFSSFQAAQIRIARPTGQLDEIIRFYEEGLCLKRIGEFSQHNGYDGVMFGLPHADYHLEFTQYEG
GSTAPVPHPDSLLVFYVPNAVELAAITSKLKHMGYQEVESENPYWSNGGVTIEDPDGWRIVFMNSK
GISGK
110000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2204
GGGGSSGGSTGGGSGSGPVTIEIGSKGEELAFDKTELTVSAGQTVTIRFKNNSAVQQHNWILVKGGEA
EAANIANAGLSAGPAANYLPADKSNIIAESPLANGNETVEVTFTAPAAGTYLYICTVPGHYPLMQGKL
VVN
111111111111111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2205
DDDGEHGGRRAALVVTDPLTRTECSACHMAYPAALLPARSWTALMADLPNHFGEDASLDEASRGQI
ESYLVANAADSSGAGRALRGLVQTDTPLRISELPWFKRKHADEVSPRMLEKARSMSNCAACHTGAE
RGLFDDD
111111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2206
GMPQTITRGIKAMLDEANSSIETLTTADAIALHKSGASDVVIVDIRDPREIERDGKIPGSFSCTRGMLE
FWIDPQSPYAKPIFQEDKKFVFYCAGGLRSALAAKTAQDMGLKPVAHIEGGFGAWRDAGGPIEAWA
PKKK
000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000001111111

>DM_train2207
GAMGDSIKQLLMAGQINKAFHQALLANDLGLVEFTLRHTDSNQAFAPEGCRLEQKVLLSLIQQISAD
MTNHNELKQRYLNEALLAINMADPITREHAPKVLTELYRNCQQFIKNSPKNSQFSNVRLLMKAIITY
RDQLK
00000000000000000000000000000000000000001111111111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2208
MGFNVKTPLLATDVIIRLWDGENFKGIVLIERKYPPVGLALPGGFVEVGERVEEAAAREMREETGLE
VRLHKLMGVYSDPERDPRAHVVSVVWIGDAQGEPKAGSDAKKVKVYRLEEIPLDKLVFDHKKIILDF
LKGNY
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2209
MKPKLILMSHGRMAEETLASTQMIVGELADAAIVSMTAEDGLSGTQAKLAAILKEAGNVPTLVLADL
KGGTPCNVAMMAMGTYPQLRVVAGLNLAMAIEAAVSPVENVDELAAYLTQIGQSAVTTIDLPELTDE
EEFEE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
>DM_train2210
QQVAVITLGIGDLEASARFYGEGFGWAPVFRNPEIIFYQMNGFVLATWLVQNLQEDVGVAVTSRPGS
MALAHNVRAETEVAPLMERLVAAGGQLLRPADAPPHGGLRGYVADPDGHIWEIAFNPVWPIGADG
SVTFAAK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2211
VGAFRSGLEDKVSKQLESKGIKFEYEEWKVPYVIPASNHTYTPDFLLPNGIFVETKGLWESDDRKKH
LLIREQHPELDIRIVFSSSRTKLYKGSPTSYGEFCEKHGIKFADKLIPAEWIKEPKKEVPFDRLKRKGG
KK
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
>DM_train2212
MVVKAAGLVIYRKLAGKIEFLLLQASYPPHHWTPPKGHVDPGEDEWQAAIRETKEEANITKEQLTIH
EDCHETLFYEAKGKPKSVKYWLAKLNNPDDVQLSHEHQNWKWCELEDAIKIADYAEMGSLLRKFS
AFLAGF
11100000000000000000000000000000000000000000000000000000000000000000000
00000001110000000000000000000000000000000000000000000000000000000000000
>DM_train2213
MQSTVHIVGDNTGWSVPSSPNFYSQWAAGKTFRVGDSLQFNFPANAHNVHEMETKQSFDACNFVN
SDNDVERTSPVIERLDELGMHYFVCTVGTHCSNGQKLSINVVAANATVSMPPPSSSPPSSVMPPPVM
PPPSPS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111111111111111111111
>DM_train2214
MMTMFEEVEVEAYVYPTEDIRKVKKAMLNLIPGLQFEAFDKGEYVILVGRTKDKRALQRLYELFRG

QQILDTARMMLEEGYFGEEIIIKVHKQVAYVGKVNFNEDSPLGPITITIRTKEPQKLMKWLAPRTKDG
VPIE
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2215
ENQRQQFPVEHVQLLCINCMVAVGHGSDLRKVEGTHHVNVNPNFSNYYNVSRDPVVINKVFKDWK
PGGVISCRNCGEVWGLQMIYKSVKLPVLKVRSMLLETPQGRIQAKKWSRVPFSVPDFDFLQHCAEN
LSDLSLD
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2216
MKKLLFAIDDTEACERAAQYILDMFGKDADCTLTLIHVKPEFMLYGEAVLAAYDEIEMKEEEKAKLL
TQKFSTFFTEKGINPFVVIKEGEPVEMVLEEAKDYNLLIIGSSENSFLNKIFASHQDDFIQKAPIPVLIV
K
0000000000000000000000000000000000000000111000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2217
AHHHHHHGSNSKEFRKIALVGASKNPAKYGNIILKDLLSKGFEVLPVNPNYDEIEGLKCYRSVRELPK
DVDVIVFVVPPKVGLQVAKEAVEAGFKKLWFQPGAESEEIRRFLEKAGVEYSFGRCIMVETSNKKIFL
EV
1111111111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000111111111
>DM_train2218
MSARISLFAVVVEDMAKSLEFYRKLGVEIPAEADSAPHTEAVLDGGIRLAWDTVETVRSYDPEWQAP
TGGHRFAIAFEFPDTASVDKKYAELVDAGYEGHLKPWNAVWGQRYAIVKDPDGNVVDLFAPLPLEH
HHHHH
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000111111111
>DM_train2219
MAKLTRLGDLERAVMDHLWSRTEPQTVRQVHEALSARRDLAYTTVMAVLQRLAKKNLVLQIRDDR
AHRYAPVHGRDELVAGLMVDALAQAEDSGSRQAALVHFVERVGADEADALRRALAELEAGHGNRPP
AGAATET
1100000000000000000000000000000000000000000000000000000000000000111000000
0000000000000000000000000000000000000000000000000000011111111111111
>DM_train2220
MSSGVDLGTENLYFQSMDLALIPDVDIDSDGVFKYVLIRVHSAPRSGAPAAESKEIVRGYKWAEYHA
DIYDKVSGDMQKQGCDCECLGGGRISHQSQDKKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEVTWA
NDGY
1111111111100000000000000000000000000000011111111000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2221
MARYLVVAHRTAKSPELAAKLKELLAQDPEARFVLLVPAVPPPGWVYEENEVRRRAEEEAAAAKRA
LEAQGIPVEEAKAGDISPLLAIEEELLAHPGAYQGIVLSTLPPGLSRWLRLDVHTQAERFGLPVIHVIA
QAA

11000000000000000000000011111100000000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2222
GMATVRLLDDAEISTLPEVKAVFDDIRATRGSDFVNNIWRGLANDPALLKRTWEQVKTVMVGEGALDPLTREMIYLAVSTANSCSYCAHSHTAAARAKGMTPAQHAEVLAIIGLAAQTNALVTAMQIPVDEAFLVDGK
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2223
MSVLDELYREILLDHYQSPRNFGVLPQATKQAGGMNPSCGDQVEVMVLLEGDTIADIRFQGQGCAISTASASLMTEAVKGKKVAEALELSRKFQAMVVEGAPPDPTLGDLLALQGVAKLPARVKCATLAWHALEEALR
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2224
GHMNTTLFRWPVRVYYEDTDAGGVVYHASYVAFYERARTEMLRHHHFSQQALMAERVAFVVRKMTVEYYAPARLDDMLEIQTEITSMRGTSLVFTQRIVNAENTLLNEAEVLVVCVDPLKMKPRALPKSIVAEFKQGS
11111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2225
EEQPRLFELLGQPGYKATWHAMFKGESDVPKWVSDASGPSSPSTSLSLEGQPYVLANSCKPHDCGNNRLLVAFRGDKSAAYGLQVSLPDEPAEVMQTPSKYATYRWYGEPSRQVRELLMKQLESDPNWKLEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111111
>DM_train2226
VDICNHALLVGYGRVGSLLGEKLLASDIPLVVIETSRTRVDELRERGVRAVLGNAANEEIMQLAHLECAKWLILTIPNGYEAGEIVASARAKNPDIEIIARAHYDDEVAYITERGANQVVMGEREIARTMLELLETP
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2227
ALYLGNKRMNDMYYTIGQVAKMQHLTISQIRYYDKQGLFPFLQRNEKGDRIFNEEALKYLEMILCLKNTGMPIQKIKQFIDWSMEGDSTILHRLKLMKQQEANVLQLIQDTEKNLKKIQQKIAKYEDEISSANATTK
11111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111111111
>DM_train2228
MQNLLKNLAASLGRKPFVADKQGVYRLTIDKHLVMLAPHGSELVLRTPIDAPMLREGNNVNVTLLRSLMQQALAWAKRYPQTLVLDDCGQLVLEARLRLQELDTHGLQEVINKQLALLEHLIPQLTPFSVASRVGWN
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111111111

>DM_train2229
VAMVNTTTRLSDDALAFLSERHLAMLTTLRADNSPHVVAVGFTFDPKTHIARVITTGGSQKAVNAD
RSGLAVLSQVDGARWLSLEGRAAVNSDIDAVRDAELRYAQRYRTPRPNPRRVVIEVQIERVLGSADLL
DRA
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train2230
RRWTFVRYHYINKAYEVTMKIQIISGFDRQLTAWLRVHGRRLTNNQKKTLFFVNRRYMQTHWQNY
MLWVKRKIKALGRPAAVGDYTRLGAEIGRRVDMVFFYNFLSGRKMIPPYSAYMAKLNALRPADVPV
KNHGK
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
>DM_train2231
MKGGIVHSDGSYPKDKFEKINGTWYYFDSSGYMLADRWRKHTDGNWYWFDNSGEMATGWKKIA
DKWYYFNEEGAMKTGWVKYKDTWYYLDAKEGAMVSNAFIQSADGTGWYYLKPDGTLADRPEFT
VEPDGLITVK
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2232
SSSFDKGKYKKGDDASYFEPTGPYLMVNVTGVDGKGNELLSPHYVEFPIKPGTTLTKEKIEYYVEWA
LDATAYKEFRVVELDPSAKIEVTYYDKNKKKEETKSFPITEKGFVVPDLSEHIKNPGFNLITKVVIEKK
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2233
MEAVKTFNSELYSLNDYKPPISKAKMTQITKAAIKAIKFYKHVVQSVEKFIQKCKPEYKVPGLYVIDSI
VRQSRHQFGQEKDVFAPRFSNNIISTFQNLYRCPGDDKSKIVRVLNLWQKNNVFKSEIIQPLLDMAA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2234
NVGVFVLMHGDSTASSMLKTAQELLGTSIGTAMNMPLTMEVQTMYEQLRNQVITQKESLNNGILLL
TDMGSLNSFGNMLFEETGIRTKAITMTSTMIVLEAIRMASVGRSLEDIYQNIQLSFESVVREQFRSSL
QK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
>DM_train2235
MTKLEQIQQWTAQHHASMTYLSNPKTIEYLTGFGSDPIERVLALVVFPDQDPFIFAPALEVEVIKETG
WQFPVIGYLDHENPWAMIADQVKQRHVNPEHVAIEKGQLQVARMEALAAQFSAPSFDLDITSFIEH
MR
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2236
TVPAQLQFSAKTLDGHDFHGESLLGKPAVLWFWAPWCPTCQGEAPVVGQVAASHPEVTFVGVAGLD
QVPAMQEFVNKYPVKTFTQLADTDGSVWANFGVTQQPAYAFVDPHGNVDVVRGRMSQDELTRRVT
ALTSR

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000011
>DM_train2237
ADLQVRDIMVPRSQMISIKATQTPREFLPAVIDAAHSRYPVIGESHDDVLGVLLAKDLLPLILKADGD
SDDVKKLLRPATFVPESKRLNVLLREFRANHNHMAIVIDEYGGVAGLVTIEDVLEQIVGDIEDEHDVE
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
>DM_train2238
MRDPFMEALGLKVLHLAPGEAVVAGEVRADHLNLHGTAHGGFLYALADSAFALASNTRGPAVALSC
RMDYFRPLGAGARVEARAVEVNLSRRTATYRVEVVSEGKLVALFTGTVFRLGGDGDDVPAGTGNLAP
REA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111111111111111
>DM_train2239
MGSDKIHHHHHHLKMKKYTKTHEWVSIEDKVATVGITNHAQEQLGDVVYVDLPEVGREVKKGEVV
ASIESVKAAADVYAPLSGKIVEVNEKLDTEPELINKDPEGEGWLFKMEISDEGELEDLLDEQAYQEFC
AQE
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001
>DM_train2240
MGSDKIHHHHHHMRVELLFESGKCVIDLNEEYEVVKLLKEKIPFESVVNTWGEEIYFSTPVNVQKM
ENPREVVEIGDVGYWPPGKALCLFFGKTPMSDDKIQPASAVNVIGKIVEGLEDLKKIKDGEKVAVRFA
SS
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train2241
GDADVLVKWSEDLANLPSIDTQHKRLVDYINDLYRAARRRDMDKAREVFDALKNYAVEHFGYEERL
FADYAYPEATRHKEIHRRFVETVLKWEKQLAAGDPEVVMTTLRGLVDWLVNHIMKEDKKYEAYLR
ERGVS
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train2242
SNASAMAQKEEGHEAAAAEAKKETDLAHVDQVETFVGKEKYYVVKGTDKKGTALYVWVPADKKA
KILSKEAKEGISEDKAAKIIKDEGLVSKQKEVHLAREGNVLLWEVTYLDKEGQYSLSYVDFTTGKILK
NITP
11111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>DM_train2243
GSHMTSPFKLPDESPSWTEWRLHNDETNSNQDNPLGFKESWGFGKVVFKRYLRYDRTEASLHRVL
GSWTGDSVNYAASRFFGFDQIGCTYSIRFRGVSITVSGGSRTLQHLCEMAIRSKQEMLQMAPIEVESN
VSR
11000000000000000000000000111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111
>DM_train2244

MVKLMIIEGEVVSGLGEGRYFLSLPPYKEIFKKILGFEPYEGTLNLKLDREFDINKFKYIETEDFEFNG
KRFFGVKVLPIKILIGNKKIDGAIVVPKKTYHSSEIIEIIAPMKLREQFNLKDGDVIKILIKGDKDE
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111
>DM_train2245
HTAFLKAMLSTGFKIPQKGILIGIQQSFRPRFLGVAEQLHNEGFKLFATEATSDWLNANNVPATPVA
WPSQEGQNPSLSSIRKLIRDGSIDLVINLPNNNTKFVHDNYVIRRTAVDSGIPLLTNFQVTKLFAEAVQ
00000000000000000000000000000000000000000000000000000000000000000000000000000
01111100000000000000000000000000000000000000000000000000000000000
>DM_train2247
SNAMGLFDEVVGAFLKGDAGKYQAILSWVEEQGGIQVLLEKLQSGGLGAILSTWLSNQQRNQSVSGE
QLESALGTNAVSDLGQKLGVDTSTASSLLAEQLPKIIDALSPQGEVSAQANNDLLSAGMELLKGKLFR
11111000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011000000000000000000001
>DM_train2248
GSSQNEASEDTGFNPKAFPLASPDLNNKIINLVQQACNYKQLRKGANEATKALNRGIAEIVLLAADAE
PLEILLHLPLVCEDKNTPYVFVRSKVALGRACGVSRPVIAAAITSKDGSSLSSQITELKDQIEQILV
11111111111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000111
>DM_train2249
GMENIEYVFEDVVRIYDTDAQGIAHYAAYYRFFTNTIEKFIKEKVGIPYPIVNENLWFVIAESHAIYHR
PVKLGDKLTVLLNPKILSNKTIKFEFKVLKDGELTTEGYVIQIAINPKIWKSTEMPKEIMDKLSIK
11111100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>DM_train2250
MQISSDYIPDSKFYKVEAIVRPWRIQQVSSALLKIGIRGVTVSDVRGFGAQGGSTERHGGSEFSEDKFV
AKVKMEIVVKKDQVESVINTIIEGARTGEIGDGKIFVLPVSDVIRVRTGERGEKAEKMTGDMLSPS
11100000000000000000000000000000000000000000000111111111111111111000000
00000000000000000000000000000000000000000000000000000111111111
>DM_train2251
AGGGGSSSGADHISLNPDLANEDEVNSCDYWRHCAVDGFLCSCCGGTTTTCPPGSTPSPISWIGTCH
NPHDGKDYLISYHDCCGKTACGRCQCNTQTRERPGYEFFLHNDVNWCMANENSTFHCTTSVLVGL
AKN
11111111111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011
>DM_train2254
EAPFTLKVNTLPLNFDKAEHHRKFQIHINVSYIGERPNSNMVIVDVKMVSGFIPVKPSVKKLQDQSN
IQRTEVNTNHVLIYIEKLTNQTMGFSFAVEQDIPVKNLKPAPVKVYDYYETDEFAIEEYSAPFSSDS
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111
>DM_train2255
MARIPMASAGTSCVPGWAIPHNPLPSCRWYVTSRTCGIGPRLPWPELKRRCCRELADIPAYCRCTAL
SILMDGAIPPGPDAQLEGRLEDLPGCPREVQRGFAATLVTEAECNLATISGVAECPWILGGGTMPSK
11111111111000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000001111111
>DM_train2256
STTPAAGVLDTSVFIATESGRQLDEALIPDRVATTVVTLAELRVGVLAAATTDIRAQRLATLESVADM
ETLPVDDDAARMWARLRIHLAESGRRVRINDLWIAAVAASRALPVITQDDDFAALDGAASVEIIRV
111000000000000011111000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2257
MIYMPIVVAVDKKSDRAERVLRFAAEEARLRGVPVYVVHSLPGGGRTKDEDIIEAKETLSWAVSIIRK
EGAEGEEHLLVRGKEPPDDIVDFADEVDAIAIVIGIRKRSPTGKLIFGSVARDVILKANKPVICIK
100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011111000000000000000000000000000000
>DM_train2258
GMSNALATLASPADDIAFYEERLRAAMLTGDLKGLETLLADDLAFVDHTGCVKTKQTHLEPYRAGL
LKLSRLDLSDAVVRAAGEDGRVVVVRAVTAGVYDGEAFTETLRFTRIWRRTQGPAGWKLVAGHCSVI
L
111111111111000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2260
GMTKAREFLGTGWKFPVAAGADGAMVLSSAEEDIAESIRIILGTARGERVMRPDFGCGIHDRVFSVIN
TTTLGLIENEVKEALILWEPRIELLSVTASPREAAEGRLLIDIEYRVRSTNTRFNLVYPFYLKESA
111111111111111111111100000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2261
GMKLQTTIQHEPKDGSGFDRGLREFFEYRDTGVNEATGGMFGAHVIRAIPGKEAKPTWHTHTVGF
QLFYVLRGWVEFEYEDIGAVMLEAGGSAFQPPGVRHRELRHSDDLEVLEIVSPAGFATSVVDLEEAR
KP
000000000000000000001100000000000000000000000001111100000000000000000
000000000000000000000000000000000000000000000000000000000000011111
>DM_train2262
AGGRSWCLRRVGMSAGWLLLEDGCEVTVGRGFGVTYQLVSKICPLMISRNHCVLKQNPEGQWTIM
DNKSLNGVWLNRARLEPLRVYSIHQGDYIQLGVPLENKENAEYEYEVTEEDWETIYPCLSPKNDQM
IEK
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000111111
>DM_train2263
TLRVVPELYCFDINVSQSFFVDVLGFEVKYERPDEEFVYLTLDGVDVMLEGIAGKSRKWLSGDLEFPL
GSGVNFQWDVIDIEPLYQRVNESAADSIYLALESKSYQCGDSIATQKQFMVQTPDGYLFRFCQDIH
000000000000000000000000000000000000000000000000000011111111110000000
000000000000000000000000000000000011111000000000000000000000011
>DM_train2264
NAIMDLQTRNTRGLSTLVVRDIGELMMAGDMAVIERYVADVRGKGAVLDLRIYDAAGRPAGKKQDA
PDGEVQAALTSGATAEKRHKVDGRHVLSFIVPLANEVRCQSCHEQGARFNGAMLLTTSLEEGYAGAR
N
110000000000000000000000000000000000000000000000000000000011111000000

000000000000000111000000000000000000000000000000000000000111
>DM_train2265
MKEKPAVEVRLDKWLWAARFYKTRALAREMIEGGKVHYNGQRSKPSKIVELNATLTLRQGNDERT
VIVKAITEQRRPASEAALLYEETAESVEKREKMALARKLNALTMPHPDRRPDKKERRDLLRFKHGD
SE
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111111111111111111111
>DM_train2266
RTTLAYPATAVSVAKNLAANEPSSFTYPDTSSPCVAVKLGAPVPGGVGPDDDIVAYSVLCTHMGCPTS
YDSSSKTFSCPCHFTEFDAEKAGQMICGEATADLPRVLLRYDAASDALTAVGVDGLIYGRQANVI
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train2267
HMGARASVLSGGELDKWEKIRLRPGGKKQYKLKHIVWASRELERFAVNPGLLETSEGCRQILGQLQP
SLQTGSEELRSLYNTIAVLYCVHQRIDVKDTKEALDKIEEEQNKSKKKAQQAAADTGNNSQVSQNY
111111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111111111111111111111
>DM_train2268
MAAASVTPPGSLELLQPGFSKTLLGTKLEAKYLCSACRNVLRRPFQAQCGHRYCSFCLASILSSGPQN
CAACVHEGIYEEGISILESSSAFPDNAARREVESLPAVCPSDGCTWKGTLKEYESCHEGRCPLML
111111111111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train2269
DEHLCANLMQLLQESLAQARLGSRRPARLLMPSQLVSQVGKELLRLAYSEPCGLRGALLDVCVEQGK
SCHSVGQLALDPSLVPTFQLTLVLRLDSRLWPKIQGLFSSANSPSQSLTLSTGFRVIKKKLYSSEQ
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001000000111000000000000000001111
>DM_train2271
GSPAAAPPTLPPYFMKGSIIQLANGELKKVEDLKTEDFIQSAEISNDLKIDSSTVERIEDSHSPGVAVIQ
FAVGEHRAQVSVEVLVEYPFFVFGQGWSSCCPERTSQLFDLPCSKLSVGDVCISLTLKNLKNG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111
>DM_train2272
AHHHHHHGSEIDKGLAKFGDSLINFLYSLALTEFLGKPTGDRVPNASLAIALELTGLSKNLRRVDKHA
KGDYAEALIAKAWLMGLISEREAVEIIKKNLYPEVLDFSKKKEAIGRALAPLLVIISERLYSSQV
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>DM_train2273
GAMGQTTFTELMQQLFLKLGLNHQVNENDVYTFEVDGHIQVLIACYHQQWVQLFSELGADLPTND
NLFGEHWPAHVQGRLDGKSILWSQQSLVGLDIDEMQAWLERFIDDIEQRKEPQNTKFQPNSTSPILF
I
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001111111000000
>DM_train2274

GPLDLSRDECKRILRKLELEAYAGVISALRAQGDLTKEKKDLLGELSKVLSISTERHRAEVRRAVNDE
RLTTIAHNMSGPNSSSEWSIEGRRLVPLMPRLVPQTAFTVTANAVANAAIQHNASLPVPAETGSK
000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111111111111111111
>DM_train2275
GQSLELGTMQPSFTSVTGKGGVKVIDGSSVKFGRFDGAEPHCVGLTDLVTEQDGSSMAAGFMQWDN
AFFPWTLNYDEIDMVLEGELHVRHEGETMIAKAGDVMFIPKGSSIEFGTPTSVRFLYVAWPANWQS
V
111111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111
>DM_train2276
AKLETVTLGNIGKDGKQTLVLNPRGVNPTNGVASLSQAGAVPALEKRVTVSVSQPSRNRKNYKVQVK
IQNPTACTANGSCDPSVTRQAYADVTFSFTQYSTDEERAFVRTELAALLASPLLIDAIDQLNPAY
000000000000000000000000000000000000000000000000000001111100000000000
000011110000000000000000000000000000000000000000000000000
>DM_train2277
MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNVNTKCITI
PRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELRAMELCEFAFNMKKDEVCVNPYHYQRVET
111111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>DM_train2278
MYSFEQAITQLFQQLSLSIPDTIEPVIGVKVGEFACHITEHPVGQILMFTLPSLDNNNEKETLLSHNIFS
QDILKPILSWDEVGGHPVLWNRQPLNNLDNNSLYTQLEMLVQGAERLQTSSLISPPRSFSPG
000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011111110000111
>DM_train2279
MLPAVPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVSEYPSEVEHMFSPSCVSLLRCT
GCCGDENLHCVPVETANVTMQLLKIRSGDRPSYVELTFSQHVRCECRPLREKMKPERCGDAVPRR
111111111111111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111111111111111
>DM_train2280
MFSITVRDHIMIAHSFRGDVFGPAQRLHGATFLVDATFRREQLDEDNIVVDIGLATQELGAVVGALNY
RNLDNEPDFAGVNTSTEFLAKVIADRLAERVHKGALGEGARGLAGLTVTLHESHVAWASYERAL
100000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>DM_train2281
HMVTLYTSPSCTSCRKARAWLEEHEIPFVERNIFSEPLSIDEIKQILRMTEDGTDEIISTRSKVFQKLN
VNVESMPLQDLYRLINEHPGLLRRPIIIDEKRLQVGYNEDEIRRFLPRKVRSFQLREAQRLAN
000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001111111111111
>DM_train2282
GSSSSGLVPRGSLTHRKFGGSGGSPFSGLSSIAVRSGSYLDAIIIDGVHHGGSGGNLSPTFTFGSGEYISN
MTIRSGDYIDNISFETNMGRRFGPYGGSGGSANTLSNVKVIQINGSAGDYLDSLDIYYEQY
111111000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000
>DM_train2283
VASPAIVEAKPVKTIKDKVRAMRELLLSDEYAEQKRAVNRFMLLLSTLYSLDAQAFAEATESLHGRTR
VYFAADEQTLLKNGNQTKPKHVPGTPYWVITNTNTGRKCSMIEHIMQSMQFPAELIEKVCGTI
11111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2284
SNRQVQLMARQQRLKAIEDRLEKFYIPLIKAFSSYVYTAQTEDEIETIITCRRYLAGNNLLRVLPMHF
KFKADKIAGSANWTFYAKEDFEQWKEALDVLWEEFLEVLKEYYTLSGTEISLPEKPDWLIGYK
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2285
MAKYEPKKGDYAGGAVKILDMFENGQLGYPEVTLKLAGEEANARRAGDERTKEAIHAIVKMISDAM
KPYRNKGSGFQSQPIPGEVIAQVTSNPEYQQAKAFLASPATQVRNIEREEVLSKGAKKLAQAMAS
11111100000000000000000000000000000000000000000000000000000000000001
11111100000000000000000000000000000000011111111111111111
>DM_train2286
MSVIKIEKALKLDKVIFVDVRTEGEYEEDHILNAINMPLFKNNEHNEVGTIYKMQGKHEAIQKGFDY
VSYKLKDIYLQAAELALNYDNIVIYCARGGMRSGSIVNLLSSLGVNVYQLEGGYKAYRNFVLEY
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2287
WQFTPNTGGNTITKVEAENMKIGGTYAGKISAPFDGVALYANADYVSYSQYFANSTHNISVRGASSNA
GTAKVDLVIGGVTVGSFNFTGKTPTVQTLSNITHATGDQEIKLALTSDDGTWDAYVDFIEFSL
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2288
MIPVEQRTHKLTSRILVGKPILIKEGYAEVELETIDEMKVDEKGLVHGGFTFGLADYAAMLAVNEPTV
VLGKAEVRFTKPVKVGDKLVAKAKIIEDLGKKKIVEVKVYREEEVVLEGKFYCYVLEKHVLDN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2289
MRRAGYLHLYGLNLVFDRVGKGPPVLLVAEEASRWPEALPEGYAFYLLDLPGYGRTEGPRMAPEELA
HFVAGFAVMMNLGAPWVLLRGLGLALGPHLEALGLRALPAEGVEVAEVLSSKLSYGNIDLGGNL
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111
>DM_train2291
QVVAAIRHITTGTYIARIREEYQQTEVKPELQPMKEALARMTDRAEALIAFVTEQKDQELLDFQARR
LVEMTAHAVFGHLLMLAANDDDSFRQSAEVYLRYGQAEQEKIDSYVRAFRPEELTFYSRCSRPE
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111111
>DM_train2292
GSHMVPGQKQHYVQPTAANSGEISYADFEKVDIRVGTIVEAVPFPEARKPAIKVKIDFGPEIGIKKSSA
QITVHYTPESLVGRQVLGVVNFPPRQIGPFRSEVLTLGFADANGDIVLAAVERPVPNGEKMC

11111111111111111110000000000000000000000011111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2293
MKTVKHLLQEKGHTVVAIGPDDSVFNAMQKMAADNIGALLVMKDEKLVGILTERDFSRKSYLLDKP
VKDTQVKEIMTRQVAYVDLNNTNEDCMALITEMRVRHLPVLDDGKVIGLLSIGDLVKDAISQHQF
00000000000000000000000000000000000000000000000000000000000000010000000
00000000000000000000000000000000000000000000000000000000000001111
>DM_train2294
MDDSEDTSWDFGPQAFKLLSAVDILGEKFGIGLPILFLRGSNSQRLADQYRRHSLFGTGKDQTESW
WKAFSRQLITEGFLVEVSRYNKFMKICALTKKGRNWLHKANTESQSLILQANEELCPKKFLLPSS
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111111111111
>DM_train2295
MSKDEVKREAKDTDGNPEIKGERRRLHSEIQSGSLANNIKKSTVIVKNATHIAICLYYKLGETPLPLVI
ETGKDAKALQIIKLAELYDIPVIEDIPLARSLYKNIHKGQYITEDFFEPVAQLIRIAIDLDY
11111111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2296
MSNQIYSARYSGVDVYEFIHSTGSIMKRKKDDWVNATHILKAANFAKAKRTRILEKEVLKETHEKVQ
GGFGKYQGTWVPLNIAKQLAEKFSVYDQLKPLFDFTQTDGSASPPPAPKHHHASKVDHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111111111111111
>DM_train2297
ALITQQDLAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDCISCKYGQDYSTHWNDLLFCLRCTRCD
SGEVELSPCTTTRNTVCQCEEGTFREEDSPEMCRKCRTGCPRGMVKVGDCTPWSDIECVHKES
11111111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111000000001111111
>DM_train2298
GSASAKELACQEITVPLCKGIGYEYTYMPNQFNHDTQDEAGLEVHQFWPLVEIQCSPDLKFFLCSMY
TPICLEDYKKPLPPCRSVCERAKAGCAPLMRQYGFAWPDRMRCDRLPEQGNPDTLCMDYERTD
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2299
GMATEKYHEILKKYFLSFETGDFSQVQFSCNLEFLSPISGNTLKGTEEVIPFLKGVTTRVAEVNIMSTT
VEYPRASGVWQMRTTKGTLYTLHNFFRLDEEGIVYVWPMFDPKAVMENPDALIQWLTGKDY
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2300
MAKTDRSQPSVLARIAAFRTGLSAEASAADYLERQGYRILARRFKTRCGEIDLVAQRDALVAFVEVKA
RGNVDDAAYAVTPRQQSRIVAAAEAWLSRHPEHAMSELRFDAILIAPNTAPRHLPGAFDATP
11111111111111111111100000000000000000000000000000000000000000000000011
11110000000000000000000000000000000000000000000000000000000000000000
>DM_train2302
DEPDLKDLFITVDEPESHVTTIETFITYRIITKTSRGEFDSSEFEVRRRYQDFLWLKGKLEEAHPTLIIP

PLPEKFIVKGMVERFNDDFIETRRKALHKFLNRIADHPTLTFNEDFKIFLTAQAWELSSH
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000111100000000000000000000000000000000000000000000001111
>DM_train2303
MRKSLFAVMVLALVAAFALPVIAAEAPADGLKMENTKMPVIFNHSSHSSYQCADCHHPVDGKENLA
KCATAGCHDVFDKKDKSVHSYYKIIHDRKATTVATCMSCHLEAAGSDKDLKKELTGCKKSKCHP
11111111111111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2304
MELFTEAWAQAYCRKLNESEAYRKAASTWEGSLALAVRPDPKAGFPKGVAVVLDLWHGACRGAKA
VEGEAEADFVIEADLATWQEVLEGRLEPLSALMRGLLELKKGTIAALAPYAQAAQELVKVAREVA
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2305
MMRCPECSTEGWRVLPLTVGAHVKEGLWSKIKGDFYFCSLESCEVVYFNEQTVFRKGELKTRVGVK
EREEPKPVCYCNRVTEKMLLEAAEKFGKEKAVEITGAGKGKWCVVTNPSGRCCHWHLERLGFPV
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2306
SNAMFHYTVDVSTGMNETIERLEESLKQEGFGVLWQFSVTEKLQEKGLDFSTPMVILEVCNPQEAA
RVLNENLLVGYFLPCKLVVYQENGTTKIGMPKPTMLVGMMNDPALKEIAADIEKRLAACLDRCR
11000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2307
MVQIIFDSKTGNVQRFVNKTGFQQIRKVDEMDHVDTPFVLVTYTTNFGQVPASTQSFLEKYAHLLLG
VAASGNKVWGDNFAKSADTISRQYQVPILHKFELSGTSKDVELFTQEVERVVTKSSAKMDPVK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2308
KNMADLSYVNIFTRDIVAMSAFYQQVFGFQEIESIRSPIFRGLDTGKSCIGFNAHEAYELMQLAQFSET
SGIKFLLNFDVDTKEAVDKLVPVAIAAGATLIKAPYETYYHWYQAVLLDPERNVFRINNVL
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2309
MGLNIGDLLGSTPAKDQGCSRTCESQFCTIAPLLRYGKYCGILYSGCPGERPCDALDACCMVHDHCVD
THNDDYLNTMCNENLLSCIDRVSGATFPGNKCNVGQTASVIRGVIETAVFAGKILHKRDDGQ
11100000011111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2310
MPDRTTDDFGPFTEQIRGTIDGMGTAEFDALPVGAIQVDGSGVIHRYNRTESRLSGRIPERVIGRNFF
TEVAPCTNIPAFSGRFMDGVTSGTLDARFDFVFDFQMAPVRVQIRMQNAGVPDRYWIFVRK
11111111111111111110011100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2311

MAKKPSKKKVKRQVASGRAYIHASYNNTIVTITDPDGNPITWSSGGVIGYKGSRKGTPYAAQLAALD
AAKKAMAYGMQSVDVIVRGTGAGREQAIRALQASGLQVKSIVDDTPVPHNGCRPKKKFRKAS
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2312
ATLHSFVLVDNGGTGNVTVVPVSNANGVAEWLSNNSRSQAYRVTASYRASGADKRKYTIKLEVPKIV
TQVVNGVELPVSAWKAYASIDLTIPIFAATDDVTVISKSLTGLFKVGNPIAEAISSQSGFYA
00000000000000000000000000000000000000000000000000000000000000000001111
11100000000000000000000000000000000000000000000000000000000000000000000
>DM_train2313
APQSITELCSEYHNTQIYTINDKILSYTESMAGKREMVIITFKSGATFQVEVPGSQHIDSQKKAIERMK
DTLRITYLTETKIDKLCVWNNKTPNSIAAISMEKLAGFGAVGAGATAEETRMLHAFDTLA
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111111111111111111
>DM_train2314
MDIGINSDPNSSTQSYKDAMGPLVRECMGSVSATEDDFKTVLNRNPLESRTAQCLLACALDKVGLIS
PEGAIYTGDDLMPVMNRLYGFNDFKTVMKAKAVNDCANQVNGAYPDRCDLIKNFTDCVRNSY
11111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2315
MNSPTSRPLRRDPLHNALVTTNVLVVLDQLEVAAEPTRRRLVQLLTSGEQTVNNLAAHFPASRSAIS
QHLRVLTEAGLVTPRKDGRFRYYRLDPQGLAQLRALFDSFWIDELDRLVADATEEAASKGDS
11111111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>DM_train2316
MVAVPEGYESLLERPLYGHLATVRPDGTPQVNAMWFAWDGEVLRFTHTTKRQKYRNIKANPAVAM
SVIDPDNPYRYLEVRGLVEDIVPDPTGAFYLKLNDRYDGPLTEPPADKADRVIIVVRPTAFSKQ
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2317
GMKQDSIITLHPDDRSEQTAEIMRRFNDVFQLHDPAALPELIAEECVIENTVPAPDGARHAGRQACV
QLWSAIATQPGTRFDLEETFVAGDRATIRWRYWMADGNSVRGVNLMRVQDGRIVEAMGYVKG
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2318
EDSPLDALDLVWAKCRGYPSYPALIIDPKMPREGMFHHGVPIPVPPLEVLKLGEQMTQEAREHLYLV
LFFDNKRTWQWLPRTKLVPLGVNQDLDKEKMLEGRKSNIRKSVQIAYHRALQHRSKVQGEQS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2319
MEYKSSPKRPYLLRAYYDWLVDNSFTPYLVVDATYLGVNVPVEYVKDGQIVLNLSASATGNLQLTND
FIQFNARFKGVSRELYIPMGAALAIYARENGDGVMFEPEEIYDELNIEPDTEQPTGFYEAVD
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111111111111

>DM_train2320
GSRRASVGSHEVEKSGLLNMTKIAQGGRKLRKNWGPSWVVLTGNSLVFYREPPPTAPSSGWGPAGS
RPESSVDLRGAALAHGRHLSSRRNVLHIRTIPGHEFLLQSDHETELRAWHRALRTVIERLVRW
11111111000000000000000000000000000000000000000000001111111111111100000
00000000000000000000000000000000000000000000000000000000
>DM_train2321
MTKVDFWPTLKDAYEPLYPQQLEILRQQVVSEGGPTATIQSRFNYAWGLIKSTDVNDERLGVKILTDI
YKEAESRRRECLYYLTIGCYKLGEYSMAKRYVDTLFEHERNNKQVGALKSMVEDKIQKETL
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111111111
>DM_train2322
EEITDGVNNMNLATDSQKKNRIQVSNTKKPLFFYVNLAKRYMQQYNDVELSALGMAIATVVTVTEI
LKNNGFAVEKKIMTSIVDIKDDARGRPVQKAKIEITLVKSEKFDELMAAANEEKEDAETQVQN
11111111111111110000000000000000000000000000000000000000000000000000000
00000000000000111111000000000000000000000001111111111111
>DM_train2323
MDFITDMSKNQRLELQNRLAQYETSLMVMSHNGDVPVITGFNVMRVTTMLDALKVELPAVAVLGD
DAQDLAYVFGARPLAVGVNIIRVVDVPGQQPSALVDAELGALHEVSMVRVLNDIADEQLVKANM
11111111111110000000000000000000000000000000000000011000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2324
KPQAPELRIFPKKMDAELGQKVDLVCEVLGSVSQGCSWLFQNSSSKLPQPTFVVYMASSHNKITWD
EKLNSSKLFSAMRDTNNKYVLTLNKFSKENEGYYFCSVISNSVMYFSSVVPVLQKVSSALVP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>DM_train2325
RKKPHIVISMPQDFRPVSSIIDVDILPETHRRVRLCKYGTEKPLGFYIRDGSSVRVTPHGLEKVPGIFIS
RLVPGGLAQSTGLLAVNDEVLEVNGIEVSGKSLDQVTDMMIANSRNLIITVRPANQRN
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2326
MACAAARSPADQDRFICIYPAYLNNKKTIAEGRRIPISKAVENPTATEIQDVCSAVGLNVFLEKNKMY
SREWNRDVQYRGRVRVQLKQEDGSLCLVQFPSRKSVMLYAAEMIPKLKTRTQLEHHHHHH
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111111111
>DM_train2327
GMENELEDKILAILEQHQVGVLTSVQGDFPHARYMTFLHDGLTLYTPSGKELPKTEEVRRNPHVCVL
IGYDSPGSAFLEINGLASLEEDESIKERIWENISKDWFQGEDSPSFVVIKIVPEQIRILNS
10000000000000000000000000000000000000000000000011110000000000000000
00000000000000000000000000000000000011111100000000000001
>DM_train2328
GAGDVVTRDVNKLPVAAREMIGKHFSQTKVAYIKIEKDLFQTTSYDVKLADGIELEFNSKGEWLEID
CKNKSVPSTFIPQAISKYMKANYNGHKTVKIERNRKGYELTLENGLEVDFDQFGGFLKLSD
11000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000
>DM_train2329
MTCAYRREIHHAHVAIRDWLAGDSRADALDALMARFAEDFSMVTPHGVVLDKTALGELFRSKGGT
RPGLRIEIDGESLLASGVDGATLAYREIQSDAAGRSERLSTVVLHRDDEGRLYWRHLQETFCG
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2330
GSHMAKHEQILVLDPPSDLKFKGPFTDVVTTNLKLQNPSDRKVCFKVKTTAPRRYCVRPNSGVIDPG
SIVTVSVMLQPFDYDPNEKSKHKFMVQTIFAPPNISDMEAVWKEAKPDELMDSKLRCVFEM
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2331
MSHAIQIREAHFPGRAPIDAYGNGGFRFADMSHRGSIICIPSGIYGIDMTGPVPTQEDISRVLEESDQIE
VLLIGTGVELLRLPEELRVLLWEKRISSDTMSTGAAVRTFNVLLAEDRAVAALLFAVE
11111111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2332
ADSQTSSNRAGEFSIPPNTDFRAIFFANAAEQQHIKLFIGDSQEPAAYHKLTTRDGPREATLNSGNGK
IRFEVSVNGKPSATDARLAPINGKKSDGSPFTVNFGIVVSEDGHDSDYNDGIVVLQWPIG
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001100000000000000000000000000000000
>DM_train2333
GMTNTTYVQEYHAIVEVLSKYNEGGKKADSTIMRPAFSSQATIFGVDVDNKLTGGPIQGLFDVIDNV
FHPSPEAKAAIARIDIVGTAASARIDTDDISGFRFTDFFNLLKVEGKWTVVSKIYHTHPSA
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011
>DM_train2334
APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTRLELYKQGLR
GSLTKLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111
>DM_train2335
GSHMGSLDETTYERLAEETLDSLAEFFEDLADKPYTFEDYDVSFGSGVLTVKLGGDLGTYVINKQTP
NKQIWLSSPSSGPKRYDWTGKNWVYSHDGVSLHELLAAELTKALKTKLDLSSLAYSGKDA
11111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2336
GENIVCRVICTTGQIPIRDLSADISQVLKEKRSIKKVWTFGRNPACDYHLGNISRLSNKHFQILLGEDG
NLLLNDISTNGTWLNGQKVEKNSNQLLSQGDEITVGVGVESDILSLVIFINDKFKQCL
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2337
MGDKPIWEQIGSSFIQHYYQLFDNDRTQLGAIYIDASCLTWEGQQFQGKAAIVEKLSSLPFQKIQASIT
AQDHQPTPDSCIISMVVGQLKADEDPIMGFHQMFLLKNINDAWVCTNDMFRLALHNFG

11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2338
KVLTIKSCNIHSGIGIRPHAQIELEYQGKIHKEISEGDGGYDAFMNALTKITNRLGISIPKLIDYEVRIPP
GGKTDALVETRITWNKSLDLEEDQTFKTMGVHPDQTVAAVHATEKMLNQILQPWQI
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111100000000000000000000000000001111
>DM_train2339
QEQRMSHHYATIEVSQQLRQLLGDQLVILLRETPDGQALERSQNDFRRVLEQGRANTVDSAEQAAL
DGVRDAYLQLQAHTPALLEAPMADNDGFSEAFNGLRLRLQDLQQLALAGISEAETSARHRA
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>DM_train2340
GAMGSGDTQLFNRAVSMVEKNKDIRSLLQCDDGITGKERLKAYGELITNDKWTRNRPIVSTKKLDK
EGRTHHYMRFHVESKKKIALVHLEAKESKQNYQPDFINMYVDVPGEKRYYLIKPKLHPVSN
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2341
GEEEKKRTARTDYWLQPEIIVKIITKKLGEKYHKKKAIVKEVIDKYTAVVKMIDSGDKLKLDQTHLET
VIPAPGKRILVLNGGYRGNEGTLESINEKTFSATIVIETGPLKGRRVEGIQYEDISKLA
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2342
SNAMNLKREQEFVSQYHFDARNFEWENENGAPETKVDVNFQLLQHDQENQVTSLIVILSFMIVFDK
FVISGTISQVNHIDGRIVNEPSELNQEEVETLARPCLNMLNRLTYEVTEIALDLPGINLEF
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>DM_train2343
MSDTLPGTTPPDDNHDRPWWGLPCTVTPCFGARLVQEGNRLHYLADRAGIRGRFSDVDAYHLDQA
FPLLMKQLELMLTGGELNPRHQHTVTLYAKGLTCEADTLGSCGYVYLAVYPTPAAPATTVLE
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>DM_train2344
GMIKKEGPGWRIIFDSSRDNFSTLIGGETWAIELDKSEWKILVEVVMELCDQYKLVKEQLMGDEDIT
LELERRPWLAILNGDQYGWNLRLILSASGLFNRGAEVYWPRHVTNNVVNAMRSMWDSDYL
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001110000000000000000000000001111
>DM_train2345
ELLFNKTKSVEFTFGNDTVVIPCFVTNMEAQNTTEVYVKWKFKGRDIYTFDGALNKSTVPTDFSSA
KIEVSQLLKGDASLKMDKSDAVSHTGNYTCEVTELTREGETIIELKYRVVSWSTRHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111
>DM_train2346
MEHVPAELTRVSEGYTRFYRSPTASVILSGLVKVKWDNEQMTMPLFKWIGGEQAEELHFCVHIAHSS

GPKLNRARSLGTVNSNMDQHWAQAQRNSGATRRTIEGFHLFENDIPNFPDYIKIKLVPKT
11111111111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2347
MSLKFPDTGLEEKEVAFSIVNHAAKSLGFIHVDQWDYERVMFDYKIVHHEGTFYLRVPAYAVKGEIP
RPSTIVQIMTPILGKYYYPHGVEYEGETFPQAVIDKCNNKLALLAKTIKAEWEGHHHHHH
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111
>DM_train2348
PRTQFSGLRRELPPSVRLLTLARWGPETLLLRLEHQFAVGEDSGRNLSSPVTLDLTNLFSAFTITNLR
ETTLAANQLLAYASRLQWTTDTGPTPHPSPSRPVSATITLQPMEIRTFLASVQWEEDG
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111111111000000000000000001111
>DM_train2349
MTDQATPNLPSRDFDSTAAFYERLGFGIVFRDAGWMILQRGDLMLEFFAHPGLDPLASWFSCCLRL
DDLAEFYRQCKSVGIQETSSGYPRIHAPELQEWGGTMAALVDPDGTLLRLIQNELLAGIS
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train2350
MQTGRTEDDLVPTAPSLGTKEGYLTKQGGLVKTWKTRWFTLHRNELKYFKDQMSPEPIRILDLTEC
SAVQFDYSQERVNCFCLVFPFRTFYLCAKTGVEADEWIKILRWKLSQIRKQLNQGEGTIR
11111111111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111111111
>DM_train2351
SHMPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRL
NQPTHVNNGNYTLLAANPFGQASASIMAAFMDNPFEFNPEDPIPDTNSTSGDPVEKKDE
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111111111111
>DM_train2352
KAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSI
CTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIYVIDPEPCPDSD
00000000000000000000000001111000000000001110000000000000000000000000000
00000000000000000000000000000000000000000000000111111
>DM_train2354
MRHISPEELIALHDANISRYGGLPGMSDPGRAEAIIGRVQARVAYEEITDLFEVSATYLVATARGYIFND
ANKRTALNSALLFLRRNGVQVFDSPELADLTVGAATGEISVSSVADTLRRLYGSAD
00000000000000000000000001000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000111
>DM_train2355
GKPDISAKDLRNIMYDHLPGFGTAFHQLVQVICKLGKDSNSLDIIHAEFQASLAEGDSPQCALIQITKR
VPIFQDAAPPVIHIRSRGDIPRACQKSLRPVPPSPKIDRGWVCVFQLQDGKTLGLKI
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000
>DM_train2356

GMGFLDALMGNASEVDLGKLAAELSPILGDNEELQLAYKMVRDLFVFTSKRLILIDKQGVTGKKVSY
HSIPYKAIVHFQVETAGTFDMDAELKLWISGQHEPLVKELKRGTDVVGIQKTIARYALG
11111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2357
RVSVTDYKRLLDSGAFHLLLDVRPQVEVDICRLPHALHIPLKHLERRDAESLKLLKEAIWEEKQGTQ
EGAAVPIYVICKLGNDSQKAVKILQSLSAAQELDPLTVRDVVGGLMAWAAKIDGTFPQY
00000000000000000000000000000000000000000000000000000000000000000011100
00000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2358
THSQLDQLLTGLVDRVAEVDHAVVLSEDGLVVSKSTGFLRDDAERLAATASGLMSLSKGVSMDFRRG
PVRQALIEMGKGYLILTAAGPGAHLVVLTRQGADVGVVAYQMNMLVKKIGEHLSAPPRG
10000000000000000000000000000000000000000000000000000000000000111111111111100
00000000000000000000000000000000000000000000001111111111
>DM_train2359
GAPSQGATANAETQTTIPLGDTSQNALDWPGVYEGVLPCASCEGIQTTLTLQADNSFELKSIYLGKDE
SIFKVAGKFDWDSNGSKITLSDGSKYLVGENQLLMLDTEGNRITGGLAEHYILKKKGM
11111111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2360
PTMEGPLRRKTLLKEGRKPALSSWTRYWVVLSGATLLYYGAKSLRGTDRKHYKSTPGKKVSIVGWM
VQLPDDPEHPDIFQLNNPDKGNVYKFQTGSRFHAILWHKHLDDACKSSRPQVPANLMSFE
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111
>DM_train2361
MPAIFTHEGKVEGVPGNYPLTAENLFRIGLALCTLWILDKEIEEPTLSIPETNFVTLALSVGFMNAGGS
VNVGKGGDIKLFLQKGEIYVLEFQPLSETDIKKLESILFGRAPIPKKTGEDIGSFKC
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2362
MAFSGTWQVYAQENYEEFLRAISLPEEVIKLAKDVKPVTEIQQNGSDFTITSKTPGKTVTNSFTIGKE
AEITTMDGKKLKCIVKLDGGKLVCRTDRFSHIQEIKAGEMVETLTVGGTTMIRKSKKI
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2363
DIEKEILDLAAATERLNLTDALNSNPAGNLYDWRSSNSYPWTQKLNLHLTITATGQKYRILASKIVDF
NIYSNNFNNLVKLEQSLGDGVKDHYVDISLDAGQYVLVMKANSSYSGNYPYSILFQKF
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2364
MPYKNILTLISVNNDNFENYFRKIFLDVRSSGSKKTTINVFTEIQYQELVTLIREALLENIDIGYELFLW
KKNEVDIFLKNLEKSEVDGLLVYCDDENKVFMSKIVDNLPTAIKRNLIKDFCRKLS
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

>DM_train2365
MSDSHHKPVWDRTHHAKMATGIGDPQCFKGMAGKSKFNVGDRVRIKDLPDLFYTRTMTYTRGAT
GTIVRLVYESPAAEDEAFGNEENVEWFYSIVFAQKDLWPEYSDTFANDTLETEIPERYLEKA
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2366
MTNKQVEISMAEWDVMNIIWDKKSVSANEIVVEIQKYKEVSDKTIRTLITRLYKKEIIKRYKSENIYF
YSSNIKEDDIKMKTAKTFLNKLYGGDMKSLVLNFAKNEELNNKEIEELRDILNDISKK
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2367
MKDPLLNSLIYVSRYYGLANSPEALVNGLPLSDGKLTPFLLPRAAERAGLVAKENRAELEKISSLILPAI
LVLKGGDSCVLNSINMETREAEVTTLESGMVPISIPLEDLLEQYTGRYFLVKKQFR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train2368
GSRESTGYLEELEKERSLLLADLDKEEKEKDWYYAQLQNLTKRIDSLPLTENFSLQTDMTRRQLEYE
ARQIRVAMEEQLGTCQDMEKRAQRRIARIQQIEKDILRIRQLLQSQATEAERSSQNKH
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2369
TTEENSKSEALLDIPMLEQYLELVGPKLITDGLAVFEKMMPGYVSVLESNLTAQDKKGIVEEGHKIKG
AAGSVGLRHLQQLGQQIQSPDLPAWEDNVGEWIEEMKEEWRHDVEVLKAWVAKATKK
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2371
RAKQQAAKSERRVRELTEATNDILWEFTADLSEVLVINSAYEDIWGRSVAKLRENPHDFLNGIHPED
RELMKDTMQSLMDGESADVECRVNATEEYQRWVWIQGEPITNDAGETVRVAGFARDIT
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2372
NLYFQGHMRKIFLACPYSHADAEVVEQRFRACNEVAATIVRAGHVVFSQVSMSHPINLCLAELDRAA
IGRLWAPVDAFYMDHLEELIVLDLPGWRDSAGIRREMEFFEAGGQRVSLWSEVEHEFR
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>DM_train2373
MGSDKIHHHHHHMFPYKIVDDVVILMPNKELNIENAHLFKKWVFDEFLNKGYNKIFLVLSDVESID
SFSLGVIVNILKSISSSGGFFALVSPNEKVERVLSLTNLDRIVKIYDTISEAMEEVRRK
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2374
AECSVDIQGNDQMQFNTNAITVDKSCKQFTVNLSHPGNLPKNVMGHNWVLSTAADMQGVVTDGM
ASGLDKDYLKPDDSRVIAHTKLIGSGEKDSVTFDVSKLKEGEQYMFFCAAHAAMKGTLTLK
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000011100000000000000000000
>DM_train2375
GMGVNMRAETESRIFSVDEYVRPSNGEPIRSVVLETNDSVVVVWHAHPGQEIASHVHPHGQDTWT
VISGEAEYHQGNGIVTHLKAGDIAIAKPGQVHGAMNSGPEPFIFVSVVAPGNAGFALAEK
11111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train2376
DVTPRRDAEYPPPEFLEAMKPLREICIKKTGVTEEAIIEFSDGKVHEDENLKCYMNCLFHEAKVVDD
TGHVHLEKLHDALPDSMHDIALHMGKRCLYPEGENLCEKAFWLHKCWKESDPKHYFLI
11111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train2377
DLYFNPRFLADDPQAVADLSRFENGQELPPGTYRVDIYLNNGYMATRDVTFNTGDSEQGIVPCLTRA
QLASMGLNTASVAGMNLLADDACVPLTTMVQDATAHLDVGQQRLNLTIPQAFMSNRAR
00000000011111111100000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train2378
MRVEDVMVTDVDTIDITASLEDVLRNYVENAKGSSVVVKEGVRVGIVTTWDVLEAIAEGDDLAEVK
VWEVMERDLVTISPRATIKEAAEKMVKNVVWRLLVEEDDEIIGVISATDILRAKMAKRY
10000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001111
>DM_train2379
GSSGSSGEKITKVYELGNEPERKLWVDRYLTFMEERGSPVSSLPAVGKKPLDLFRLYVCVKEIGGLAQ
VNKNKKWRELATNLNVGTSSSAASSLKKQYIQYLFAFECKIERGEEPPPEVFSTGDT
11111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000011111
>DM_train2380
ASENIEVHMLNKGAEGAMVFEPAYIKANPGDTVTFIPVDKGHNVESIKDMIPCGACKFKSKINENYV
LTVTQPGAYLVKCTPHYAMGMIALIAVGDSPANLDQIVSAKKPKIVQERLEKVIASAK
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000111
>DM_train2381
MSLSIGRTCWAIAEGYIPPYGNGPEPQFISHETVCILNAGDEDAHVEITIYYSDKEPVGPYRLTVPARR
TKHVRFNDLNDPAPIPHDTDFASVIQSNVPIVVQHTRLDSRQAENALLSTIAYANT
11110000000000000000111111111110000000000000000000000000000000000000000
000000000000000000000000000000000011111111111111111111
>DM_train2382
SNAMALGFGMKMELQQFLDALASSPEKIEFETTMAVIEDNYDFTPAAFTNGNTQNDANENNGSCKI
FAFGLLNALDKEATLACFGRFYREDVLLHPENNDHQNIRNFMVTGWEGIQFETSALTAK
11111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>DM_train2383
MTGRIVHFEIPFDDGDRARAFYRDAFGWAIAEIPDMDYSMVTTGPVGESGMPDEPGYINGGMMQR
GEVTTPVVTVDVESIESALERIESLGGKTVTGRTPVGNMGFAAYFTDSEGNVVGLWETAR

000000000000000000000000000000000110000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>DM_train2384
GPLGSMPSEKTFKQRRSFEQRVEDVRLIREQHPTKIPVIIERYKGEKQLPVLDKTKFLVPDHVNMSEL
IKIIRRRLQLNANQAFFLLVNGHSMVSVSTPISEVYESERDEDGFLYMVYASQETFG
111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>DM_train2385
ESVKAMWGVVTDSQTEIVALAKVRNEDVVPIVVSGYHYTIEMNGVKVADGYENSPVTVKPASATTL
KFSLRLNNSFLREWWVTHIANGEKTKIRVAIKPTIEIGGRDVEVPVFLRESEFTTKLLS
000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001000000000000000000001
>DM_train2386
IVVYTDREVYGAVGSQVTLHCSFWSSEWVSDDISFTWRYQPEGGRDAISIFHYAKGQPYIDEVGTFKE
RIQWVGDPSWKDGSIVIHNLDYSDNGTFTCDVKNPPDIVGKTSQVTLYVFEKVPTR
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000001111000000000000011111
>DM_train2387
SGPWMCYPGQAFQVPALPACRPLLRLQCNGSQVPEAVLRDCCQQLAHISEWCRCGALYSMLDSMYK
EHGAQEGQAGTGAFPRCRREVVKLTAASITAVCRLPIVVDASGDGAYVCKDVAAYPDA
111100000000000000000000000000000000000000000000000000000000000000111
111111000000000000000000000000000000000000000000000
>DM_train2388
TESGTAAQDPEALAAEIGPVKQVSLGEQIDAALAQQGEQLFNTYCTACHRLDERFIGPALRDVTKRR
GPVYIMNVMLNPNGMIQRHPVMKQLVQEYGTMMTDMALSEEQARAILEYLRQVAENQ
111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>DM_train2389
LRPKALTQVLSQANTGGVQSTLLLNNEGSLLAYSGYGDTDARVTAAIASNIWAAADRNGNQAFNEDS
LKFILMDCMEGRVAITRVANLLLCMYAKETVGFGMLKAKAQALVQYLEEPLTQVAAS
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011111111
>DM_train2390
GLPVEVRGSNGAFYKGFVKDVHEDSVTIFFENNWQSERQIPFGDVRLPPPADYNKEITEGDEVEVYS
RANEQEPCGWWLARVRMMKGDFYVIEYAACDATYNEIVTLERLRPVNPNPLATKGSF
000000000000000000000000000000000000000000000000011110000000000000011
100000000000000000000000011110000000000000000000011111
>DM_train2391
MSWIEPIISHFCQDLGVPTSSPLSPLIQLEMAQSGTLQLEQHGATLTLWLARSLAWHRCEDAMVKAL
TLTAAQKSGALPLRAGWLGESQLVLFVSLDERSLTLPLLHQAFEQLLRLQQEVLAPP
100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000011
>DM_train2392
GHMSDLVTKFESLIISKYPVSFTKEQSAQAAQWESVLKSGQIQPHLDQLNLVLRDNTFIVSTLYPTST

DVHVFEVALPLIKDLVASSKDVKSTYTTYRHILRWIDYMQNLLEVSSTDKLEINHD
11100000000000000000001111111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>DM_train2393
MGGSGTDIVLNDLPFVDGPPAEGQSRISWIKNGEEILGADTQYGSEGSMNRPTVSVLRNVEVLDKNI
GILKTSLETANSDIKTIQEAGYIPEAPRDGQAYVRKDGEWVLLSTFLGSSGSGLVPR
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111
>DM_train2394
ALEGTEFARSEGASALASVNPLKTTVEEALSRGWSVKSGTGTEDATKKEVPLGVAADANKLGTIALK
PDPADGTADITLTFTMGGAGPKNKGKIITLTRTAADGLWKCTSDQDEQFIPKGCSR
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2395
AITKINDCFELLSMVTYADKLKSLIKKEFSISFEEFAVLTYISENKEKEYYLKDIINHLNYKQPQVVKAV
KILSQEDYFDKKRNEHDERTVLILVNAQQRKKIESLLSRVNKRITEANNEIEL
00000000000000000000000000000000000000000000000000001111111111000000
00000000000000000000000000000000000001111111111111
>DM_train2398
KACTRECGNLGFGICPRSEGSPLNPICINCCSGYKGCNYYNSFGKFICEGESDPKRPNACTFNCDPNIA
YSRCPRSQGKSLIYPTGCTTCCTGYKGCYYFGKDGKFVCEGESDEPKANMYPVM
00000000000000000000000000000000000000000000000000000000000000000000
00111111111111000000000000000000000000001111111
>DM_train2399
MPHLVIEATANLRLETSPGELLEQANAALFASGQFGEADIKSRFVTLEAYRQGTAAVERAYLHACLSIL
DGRDAATRQALGESLCEVLAGAVAGGGEEGVQVSVEVREMERASYAKRVVARQR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>DM_train2400
NALRRDPNLPVHIRGWLHKQDSSGLRLWKRRWFVLSGHCLFYYKDSREESVLGSVLLPSYNIRPDG
PGAPRGRRFTFTAEHPGMRTYVLAADTLEDLRGWLRALGRASRAEGDDYGQPRSPAR
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111111
>DM_train2401
GSHMVGQLSEGAIAAIMQKGDTNIKPILQVINIRPITTGNSPPRYRLLMSDGLNTLSSFMLATQLNPL
VEEEQLSSNCVCQIHRFIVNTLKDGRRVVILMELEVLKSAEAVGVKIGNPVPYNE
11100000000000000000000000000000000011100000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2402
GHMNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLLFDDGYECDVLGKDILLCDPIPLDTEVTAL
SEDEYFSAGVVKGHRKESGELYYSIEKEGQRKWYKRMAVILSLEQGNRLREQYGLG
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2403

GMGSLAEWYQRIPTPDDLTRVESLFANMQAQFPQLKLEFKWNQPMFTDHGTFIMGFNPSKKHLAV
AIEPQTMTRFIPQIDKAGYDHSQIIRFPWHKPLDEQLIHDLIAYTIDQKKDATTFWQR
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2404
MSKLDLHQMTTQDLVALFAKVTVEQDDALLGNQISRFNRLFGVMAEIADELKARDGDQRTALLSLF
EYPNMQVRLQAAKLTLAVAPVKAREQLEAIVSSKWFPQAGDAGMCLDLLDDGTFKPK
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2405
MRNYIQGIDHVQVAAPVGCEEEARAFYGETIGMEEIPKPEELKKRGGCWFKCGNQEIHIGVEQNFNP
AKRAHPAFYVLKIDEFKQELIKQGIEVIDDHARPDVIRFYVSDPFGNRIEFMENKN
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001
>DM_train2406
GDFAKEYADALYDSLGHSVLICDRDVYIAVSGSSKKDYLNKSISEMLERTMDQRSSVLESDAKSVQLV
NGIDEDMNSYTVGPIVANGDPIGAVVIFSKDQTMGEVEHKAVETAAGFLARQMEQ
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111
>DM_train2407
MGARRMNAFDIISGSPGFNLSGLFGDARKYDRVERFVSAWTAERVVERLEEIVSAENLTVAKKETWG
MKIEGQKGNFAMVVEINQLTDELVMIEVRKRQRAAASGRDLWTDTLRPFFVELVHE
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011100000000000000001
>DM_train2408
GMPQHDKSRLVRIDTGPMINPVAGKPSRPIAGDASFRTVTAFEGGQGKVESGVWESTSGSFQSNTTG
YIEYCHIIEGEARLVDPDGTVHAVKAGDAFIMPEGYTGRWEVDRHVKKIYFVTHLA
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001
>DM_train2409
PMFIVNTNVPRASVPDGFLSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIG
GAQNRSYSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFALEHHHHHH
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111
>DM_train2410
MEGSHHHHHHSQAQSKAQVLQSVAGQTLTVRCQYPPTGSLYEKKGWCKEASALVCIRLVTSSKPRT
MAWTSRFTIWDDPDAGFFTVTMTDLREEDSGHYWCRIYRPSDNSVSKSVRFYLVVS
11111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2411
MVRGIRGAITVEEDTPEAIHQATRELLLKMLEANGIQSYEELAAVIFTVTEDLTSAFPAEAARQIGMH
RVPLLSAREVPVPGSLPRVIRVLALWNTDTPQDRVRHVYLREAVRLRPDLESAQ
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111

>DM_train2412
EPYSLTAQQSSLIREDKSNAKLWNEVLASLKDRPASGSPFQLFLSKVEETFQCICCQELVFRPITTVCQ
HNVCKDCLDRSFRAQVFSCPACRYDLGRSYAMQVNQPLQTVLNQLFPGYGNGR
11100000000000000000000000000011100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2413
GADEEESTPCDNVETDQQTFACAAFNKQVAERELQSAYDELIERMRDQFGDEAGLMSRIEAAEKVW
SQLRDADCKVETHAEQPGSNAYQIAWNSCIAQRSDERAEYLRSLGSQNSDEPAPED
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111111111
>DM_train2414
GMEPITQAFAQQFSREWIDAWNAHDLDAILSHYADGFEMSSPMIVQIAGEPSGRLRGKEQVGAYWR
EALRMIPDLHFEWIATLAGVDSVAIHYRGAKGRLALEVFHFGPDRRVVKALAHYAG
11100000000000000000000000000000000000000000010000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2415
MKKKDTCEIFGYDEEKVNRIQGDLQTVDISGVSQILKAIADENRAKITYALCQDEELCVCDIANILGVT
IANASHHLRTLYKQGVVNFRKEGKLALYSLGDEHIRQIMMIALAHKKEVKVNV
11111111110000000000000000000000000000000000000000000000000000000000000
00000000011111111111111000000000000000000001111
>DM_train2416
APVLENRRARHDYEILETYEAGIALKGTEVKSLRAGKVDFTGSFARFEDGELYLENLYIAPYEKGSYA
NVDPRRKRKLLLHKHELRRLLGKVEQKGLTLVPLKIYFNERGYAKVLLGLARGK
11000000000000000000000000000000000000000000000000000000000001111111100
00000000000000000000000000000000000000000000000000
>DM_train2417
MEKATKRNDEECEVQLNIKRNSKHSAWTGELFKIECPVKYCVHRPNVTWCKHNGTIWVPLEVGPQ
LYTSWEENRSVPVFVLHFKPIHLSDNGSYSCSTNFNSQVINSHSVTIHVRERSQNSS
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111
>DM_train2418
ARAQLSEAMTLASGLKTKVSDIFSQDGSCPANTAATAGIEKDTDINGKYVAKVTTGGTAAASGGCTIV
ATMKASDVATPLRGKTLTLTLGNADKGSYTWACTSNADNKYLPKTCQTATTTTP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001
>DM_train2419
MDIVFIEQLSVITTIGVYDWEQTIEQKLVFDIEMAWDNRKAAKSDDVADCLSYADIAETVVSHVEGA
RFALVERVAEEVAELLLARFNSPWVRIKLSKPGAVARAANVGVIIERGNNLKENN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111
>DM_train2420
SLRVEETEVFKKYFKNLTDRERAVFEGGITLGALFHQFVGTPVSKYNKESLERAIEEAMKNQPCVYDI
KVKIRNVGEKYVSLDGKMLDVDLKIKINKTVAHLKLEYIPEIDYPLMYVKKFEE
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000001
>DM_train2421
MSKTIVLSVGEATRTLTEIQSTADRQIFEEKVGPLVGRLRLTASLRQNGAKTAYRVNLKLDQADVVDS
GLPKVRYTQVWSHDVTIVANSTEASRKSLYDLTKSLVATSQVEDLVVNLVPLGR
10000000000000000000000000000000000000000000000000000000000000011110
00000000000000000000000000000000000000000000000000
>DM_train2422
NGGVGVDVELITSINVENDTFIERNFTPQEIEYCSAQPSVQSSFAGTWSAKEAVFKSLGVKSLGGGAAL
KDIEIVRVNKNAPAVELHGNAKKAAEEAGVTDVKVSISHDDLQAVAVAVSTKK
10000000000000000000000000000000000000000000000000000000001111111111000
00000111100000000000000000000000000000000000000001
>DM_train2423
GMPTDDIVQLLKGQEEAWNRGDLDAYMQGYWQNEQLMLISNGKFRNGWDETLAAYKKNYPDKES
LGELKFTIKEIKMLSNYAAMVVGRWDLKRLKDTPTGVFTLLVEKIDDRWVITMDHSSD
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2424
GMARKRLIIEMGMGIDQHGQEPTIAASRAVRNAIAHNALPGVWEVAGLSHPNEMIIEVQVAVPYPEQ
VREEEVLAVLPFGRKTLTVESGGMIVQGRAIPELNDKNDEMLIAIAAVTVLIENE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111
>DM_train2425
QGQFFREIENLKEYFNASSPDVAKGGPLFSEILKNWKDESDKKIIQSQIVSFYFKLFENLKDNQVIQRS
MDIIKQDMFQKFLNGSSEKLEDFKKLIQIPVDDLQIQRKAINELIKVMNDLS
00000000000000001111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>DM_train2426
GSHRTSGRVAVEEVDEEGKFVRLRNKSNEDQSMGNWQIKRQNGDDPLLTYRFPPKFTLKAGQVVTI
WAAGAGATHSPPTDLVWKAQNTWGCGNSLRTALINSTGEEVAMRKLVRSVTVVED
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111
>DM_train2427
QGVQGSAHAINKAGSLRMQSYRLLAAVPLSEKDKPLIKEMEQTAFSAELTRAAERDGQLAQLQGLQ
DYWRNELIPALMRAQNRETVSADVSQFVAGLDQLVSGFDRTTEMRIETEHHHHHH
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111
>DM_train2428
SVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLDEEISGIVE
VVGRVTAKATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111
>DM_train2430
DKKAYFYHSSFQILNVEYTEALNSPATHEYRTLSERIEAMITDEFRGSSLKSEFIRTHVVKLRKEGTGV
VADVVMKFRSSKRNNRKVMKTRIQSVLRRLSSSGNLEIAPSNEITSLTDQDT

10000000000000000000000000000000000000000000000000000000000000000000000
00000000111100000000000000000000000000000000000001
>DM_train2431
GMREDMKDNVVKDKSLEFAVRIVNLYKFLVNEQKEFVMSKQILRSGTSIGANIREAEQAQSRADFIN
KLNIALKEANETEYWLELLIRTEYITREQYESINNDSTEINKLLISIIKTTKNN
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train2432
MRVAIPAEDDRGIKSNVSKHFGRSRYFVFVDIEGEDVKNVEVVEVPFEEHGPGDLPNFIKDHGAKIVL
TYGIGRRAIEYFNSLGISVVTGVYGRISDVIKAFIGGKLKIDYDWKEKIEKEH
00000000000000000000000000000000000000000000000111110000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train2433
MNAPDRFELFLLGEGESKLKIDPDTKAPNAVVITFEKEDHTLGNLIRAELLNDRKVLFAAYKVEHPF
FARFKLRIQTTEGYDPKDALKNACNSIINKLGALKTNFETEWNLQTLAADDAF
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000111111
>DM_train2435
NKPKNLDASITSIIHEIGVPAHIKGYLYLREAIAMVYHDIELLGSITKVLYPDIAKKYNTTASRVERAIR
HAIEVAWSRGNLESISSLFGYTVSVSKAKPTNSEFIAMVADKLRLEHKAS
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000011111111111110000000000000000000001111
>DM_train2436
MEGGKLQSTFVFEEIGRRLKDIGPEVVKKVNAVFEWHITKGGNIGAKWTIDLKSGSGKVYQGPAKGA
ADTTIILSDEDFMEVVLGKLDPQKAFFSGRLKARGNIMLSQKLQMILKDYAKL
11111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>DM_train2437
NPLASLTTDKNDLYINWLKSLSFFQTNSSCAEALVKVIPHYHNKLIDFSQVLQLVFSASEKFPIQENQP
LPEQLMFLSNLEKQTPFAKAVGSSIYKLVTGKNLSLDFASQILKEASILEH
11111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001
>DM_train2438
SSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNKASNDMYHSRACQVVRARKQIVAGVNYFLDV
ELCRTTCTKTQPNLDNCPFHDQPHLKRKAFCSFQIYAVPWQGTMTLSKSTCQDA
11111111111000000000000000000000000000000000000000000000000000000000000
0000001100000000000000000000000000000000000000000
>DM_train2439
MKGMSKMPQFNLRWPGGGPQFNLRWPREVLDLVRKVAEENGRSVNSEIYQRVMESFKKEGRIGGT
GGSGGGREVLDLVRKVAEENGRSVNSEIYQRVMESFKKEGRIGAHHHHHHKNQHE
11111100000000000000000000000000000000000000000000000000000000011111000
0000000000000000000000000000000000001111111111111
>DM_train2440
MVDIVKRRDWEKKEKKKIAIERIDTLFTLAERVARYSPDLAKRYVELALEIQKKAKVKIPRKWKRRY

CKRCHTFLIPGVNARVRLRTKRMPHVVITCLECGYIMRYPYLREVKQKRKKAT
1110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111111111
>DM_train2441
MQAYSNPGYSSFPSPTGLEPSCKSCGAHFANTARKQTCLDCKKNFCMTCSSQVGNGPRLCLLCQRFR
ATAFQREELMKMKVKDLRDYLSLHDISTEMCREKEELVLLVLGQQPVISQEDR
1111111111111111110000000000000000001111000000000000000000000000000000
000000000000000000000000000000000000000000111111
>DM_train2442
MMRKLKTLPPTLRDKNRYIAFEIISDGDFTKDEVKELIWKSSLEVLGETGTAIVKPWLIKFDPNTKT
GIVRSDREYVEYLRFALMLVSEFNGKRLIIRTLGVSGTIKRLKRKFLAKYGWK
1100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>DM_train2443
SNAMDTQTLNSDLRVFMHHIYEFEKGVRSMVLATLANDDIPYAEERLRSRQIPYFAQPTPNTERTNL
FFGCKECMEAIRLFVSGRSLNSLTPEEDFIIGAMLGYDICRQCERYCRRKSNS
1111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111
>DM_train2444
GHMVRKSIDRSTAAEITRGIGNVFADLGMPDAEERQTKLRLAYALNAVIDRARLSQAAAAARLGINQ
PKVSALRNYKLEGFSVERLMTLLNALDQDVEIVIRKKPRSRAAARISVVAAGS
1111111111111111111111111111000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011
>DM_train2445
WVAFDKQVLSFDAYLEEEVLDKSQTNYRIRYYKIYFYPEDDTIQVNEPEVKNSGLLQGTSIRRHRITL
PPPDEDQFYTVYHFNVGTEVVFYGRTFKIYDCDAFTRNFLRKIGVKVNPPVQ
0000000000000000000000000000000000000000001111100000000000000000000000
000000000000000000000000000000000000000000000001
>DM_train2448
GGPGNEKLKEKENNDSSDKATVIPNFNTTMQGSLLGDDSRDYYSFEVKEEGEVNIELDKKDEFGVT
WTLHPESNINDRITYGQVDGNKVSNKVKLRPGKYYLLVYKYSGSGNYELRVNK
1111111111111111110000000000000000000000000000000000000000000000000000
00111100000000000000000000000000000000000000000
>DM_train2449
MEEKVGNLKPNMESVNVTVRVLEASEARQIQTKNGVRTISEAIVGDETGRVKLTLWGKHAGSIKEGQ
VVKIENAWTTAFKGQVQLNAGSKTKIAEASEDGFPESSQIPENTPTAPQQMR
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111
>DM_train2450
EDPFGPGCEEAGCPEGSACNIITDRCTCSGVRCRVHCPHGFQRSRYGCEFCKCRLEPMKATCDISECP
EGMMCSRLTNKCDCKIDINCRKTCPNGLKRDKLGCEYCECRPKRKLIPRLS
1111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111111111
>DM_train2452

SKQPDKQRKSQRRAPLHERHKQVRATLSADLREEYGQRNVRVNAGDTVEVLRGDFAGEEGEVINVD
LDKAVIHVEDVTLEKTDGEEVPRPLDTSNVRVTDLDLEDEKREARLESEDDSA
00000000000000000000000000000000000001110000000000000000000000000000
00000000000000000000000000000000000000000000111111
>DM_train2453
APLAVNDGDMRLADGGATNQGRVEIFYRGQWGTVCDNLWDLTDASVVCRALGFENATQALGRAAF
GQGSGPIMLDEVQCTGTEASLADCKSLGWLKSNCRHERDAGVVCTNETRSTHTL
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111100
>DM_train2454
RDVVSFEQPEFSVSRGDQVARIPVIRRVLDGGKSQVSYRTQDGTAQGNRDYIPVEGELLFQPGEAWK
ELQVKLLELQEVDSLLRGRQVRRFHVQLSNPKFGAHLGQPHSTTIIIRDPDE
00000000000000000000000000000000000000000000000000000000000000000000
00000111111111000000000000000000000000000011
>DM_train2455
PMNIKGLFEVAVKVKNLEKSSQFYTEILGFEAGLLDSARRWNFLWVSGRAGMVVLQEEKENWQQQ
HFSFRVEKSEIEPLKKALESKGVSVHGPVNQEWMQAVSLYFADPNGHALEFTAL
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2456
MTDYDKLSNLATTFEFPDLTVEIKGPDVVGVNKLAEYEVHVKNLGGIGVPSTKVRVYINGTLYKNWT
VSLGPKEEKVLTFNWTPTQEGMYRINATVDEENTVVELNENNNVATFDVSVV
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2457
MADRIELRGLTVHGRHGVYDHERVAGQRFVIDVTVWIDLAEAANSDDLADTYDYVRLASRAAEIVA
GPPRKLIETVGAEIADHVMDDQRVHAVEVAVHKPQAPIPQTFDDVAVVIRRSR
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2458
LRIPNIATYTGTIQGKGEVCIIGNKEGKTRGGELYAVLHSTNVNADMTLILLRNVGGNGWGEIKRNDI
DKPLKYEDYYTSGLSWIWKIKNNSSETSNYSLDATVHDDKEDSDVLTKCPV
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2459
MRRVEKVIIVEGRSDKQKVAAVLNEPVVIVCTNGTISDARLEELADELEGYDVYLLADADEAGEKLRR
QFRRMFPEAEHLYIDRAYREVAAAPIWHLAQVLLRARFDVRIESLMRGRGE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111
>DM_train2460
QGHMAVRRVVANIATPEPARAQAFYGDILGMPVAMDHGWIVTHASPLEAHAQVSFAREGGSGTDVP
DLSIEVDNFDEVHARILKAGLPIEYGPVTEAWGVQRLFLRDPFGKLINILSHA
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011

>DM_train2461
SMSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVDLPYPLNNFSVAKCQLMKTE
RPKPNTFIIRCLQWTTVIERTFHVDTPEEREEWTEAIQAVADRLQRQEEERMN
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111
>DM_train2462
MDVFLMIRRHKTTIFTDAKESSTVFELKRIVEGILKRPPDEQRLYKDDQLLDDGKTLGECGFTSQTA
RPQAPATVGLAFRADDTFEALCIEPFSSPPELPDVMKPQDSGSSANEQAVQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111111111111
>DM_train2463
MSLLNKPKSEMTPEELQKREEEEFNTGPLSVLTQSVKNNTQVLINCRNNKKLLGRVKAFDRHCNM
VLENVKEMWTEVPKSGKGKKKSKPVNKDRYISKMFLRGDSVIVVLRNPLIAGK
11111111111111111111111100000000000000000000000000000000000000000000
00111111111111111111000000000000000000000000
>DM_train2464
MRHLKSGRKLNRHSSHRLALYRNQAKSLLTHGRITTTVPKAKELRGFVDHLIHLAKRGDLHARRLV
LRDLQDVKLVRKLFDEIAPRYRDRQGGYTRVLKLAERRRGDGAPLALVELVE
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2465
MTKEPRNLSEWIKELKKASREAVILVEGKNDKKALSKFSIKNVIDLSGKRYADVVDMLEGKWEKVIL
LFDLDTHGERINQKMKELLSSQGFLVDENFRNFLKKWNIIHIEEINGGKNS
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train2466
MPTRVNDGVDADEVTFVNRFTVHGAPAEFESVFARTAAFFARQPGFVRHTLLRERDKDNSYVNIAV
WTDHDAFRRALAQPGFLPHATALRALSTSEHGLFTARQTLPEGGDTTGSGHR
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111
>DM_train2467
EGSCMSITINPSRPSVNNIGQVDIDSVILGRPGAIGSWELNNFITIGLNRVNADTVRVNIRNTGRTNRL
IITQWDNTVTRGDVYELFGDYALIQGRGSFCLNIRSDTGRENWRMQLEN
00111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2468
MEAVVVEREAKGMKEIAIQEKDLTLQWRGNTGKLVKVRLKNTRAMEMWYNKQITEENIQEITTLN
IIKNGKSLALEVYPEKSIYVKPNLGRINVPVFFIKTPINRGVFEEIFGETLKA
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000001110000000000000000000011111
>DM_train2469
MRGSGSSTVDELTAAFTGGAATGEGGLTLTAPEIAENGNTVPIEVKAPGAVAIMLLAAGNPEPAVATF
NFGPAAADQRAATRIRLAQTQDVIALAKMADGSVVKAQTTVKVTIGGCGG
11111100000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000011
>DM_train2471
MAFQLEMVTRETVVIRLFGELDHHAVEQIRAKISTAIFQGAVTTIIWNFERLSFMDSSGVGLVLGRM
RELEAVAGRTILLNPSPTMRKVFQFSGLGPWMMDATEEEAIDRVRGIVNG
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111000000000000000000111
>DM_train2472
LMGDDKVKKEVGRASWKYFHTLLARFPDEPTPEEREKLHTFIGLYAELYPCGECSYHFVKLIEKYPV
QTSSRTAAAMWGCHIHNKVNEYLKKDIYDCATILEDYDCGCSDSDGKRVS
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111111111
>DM_train2473
MSLSPPGVRLFYDPRGHHAGAINELCWGLEEQGVPCQTITYDGGGDAAALGALAARSSPLRVGIGLS
ASGEIALTHAQLPADAPLATGHVTDSDDQLRTLGANAGQLVKVLPLSERN
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000
>DM_train2474
MSAMNARQGILSLALKDKPALYSAYMPFVKGGGIFVPTPKRYMLGDEVFLLLTLPDSSERLPVAGKVI
WTTPAGAQGNRAAGIGVQFPDGPEGEAVRNKIETLLAGLTTSDKPTHTM
11111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00111111000000000000000000000000111111111111
>DM_train2475
MNSDPTRERILHGLITLYILKELVKRPMHGYELQKSMFETTGQALPQGSIYILLKTMKERGFVISESSV
NEKGQQLTVYHITDAGKKFLCDHSQALQLARKIIDDLLSTVDIIENRN
11111110000000000000000000000000000000000000100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111
>DM_train2476
HCDLPCGVYDPAQARIEAESVKAVQEKMAGNDDPHFQTRATVIKEQRAELAKHHVSVLWSDYFKPP
HFEKYPELHQLVNDTLKAMSAAKGSKDPATGQKALDYIAQIDKIFWETKKA
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011
>DM_train2477
GSSEEESFFVQVHDVSPEQPRTVIKAPRVSTAQDVIQQTLCKAKYSLSILSNPNPSDYVLLEEVVKDTT
NKKTTTPKSSQRVLLDQECVFQAQSKWKGAGKFILKLKEQVQASREDK
11110000000000000000000000000000000000000000000000000000000000000000000001111111
11111110000000000011111111110000000011111111
>DM_train2478
MDRTHERVLQAMAENLGEGLPRAIPLLAEKAPGLLLEHGRSWTYAMPEKGALDEKTRTLILLGIAL
ATGSEACVKAMAHRAKRLGLSKEALLETLKIARQAQANAVLGHAAPLLEVL
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000
>DM_train2479
SNAMSANDKLTILWTTDNKDTVFNMLAMYALNSKNRGWWKHINIILWGASVKLVANDTQVQTEIL
EMLQSGITIEACQDCCENFGVASIITNLGITVRYMGIPLTEYLKNGEKILSI

10000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>DM_train2480
QGHMVSAEGRNRKAVLCQRCGSRVLQPGTALFSRRQLFLPSMRKKPALSDGSNPDGDLLQEHWLVE
DMFIFENVGFTKDVGNIKFLVCADCEIGPIGWHCLDDKNSFYVALERVSHE
00000000000000000000000000000000000000001111111111000000000000000000000
0000000000000000000000000000000000000000000000
>DM_train2481
MAVNFYDVAYDLENALRGSEEFTRLKNLYDEVNADESAKRMFENFRDVQLRLQQKQMAGEEITQE
EVTQAQKTVALVQQHEKISQLMEAEQRMSMLIGELNKIIMKPLEELYGSVEG
11000000000000000000000000000000000000000000000000111111111111111111000
0000000000000000000000000000000000000000011111
>DM_train2482
MPKNKGKGGKNRRRGKNDSEGDKRELVFKEEGQEYGQVQRMLGNGRLDAYCFDGQKRLCHIRGK
MRKKVWVNPGDIVLVSLRDFQDSKGDIILKYTPDEARALKSKGEIPETTKINE
11111111111111111111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011
>DM_train2483
MQNIPPQVQAMLGQLESYQQQLQLVVQQKQKVQLELTEAKKALDEIESLPDDAVVYKTVGTLIVKTT
KDKAVAELKEKIETLEVRLNALERQEKKLNEKLKELTAQIQSALRPPTAG
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000111
>DM_train2484
SLTFYPAWLTVSEGANATFTCSLSNWSEDLMLNWNRLSPSNQTEKQAAFSNGLSQPVQDARFQIIQL
PNRHDFHMNILDTRRNDSGIYLCGAISLHPKLKIEESPGAELVVTERILE
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000011111
>DM_train2485
ARINGPDECGRVIKDTSGSISNTDRQKNLCTWTILMKPDQKVRMAIPYLNLACGKEYVEVFDGLLSG
PSYGKLCAGAAIVFLSTANTMTIKYNRISGNSSSPFLIYFYGSSPGSEY
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000001111
>DM_train2487
MATQRAHRAETPAHPNRLWIWEKHVYLDEFRRSWLPVVIKSNEKFQVILRQEDVTLGEAMSPSQL
VPYELPLMWQLYPKDRYRSADSMYWQILYHIKFRDVEDMLLELIDSESNDE
11111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011111111
>DM_train2488
MSEAKELIKKMCDLQNSNEEIQKEMAGWSGVVQYKLDGEEFYVEYKSDGTCEFKEGVHSSPTFTVV
APPDFWLAVLKGQEDPVSGFMMGKYRIEGNIMEAQRLAGVIKKFQGKFEL
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111111
>DM_train2489
NNTPVTNKLKAYGDANFNFTNNSIADAEKQVQEAYKGLLNLNEKNASDKLLVEDNTAATVGNLRKL

GWVLSSKNGTRNEKSQQVKHADEVLFEGKGGVQVTSTSENGKHTITFALA
11000000000000000000000000000000000000000000000111000000000000000000000
000000000000000000000000000000000000000000001
>DM_train2490
MAEIPKEMLRAQTNVILLNVLKQGDNYVYGIIKQVKEASNGEMELNEATLYTIFKRLEKDGIISSYWG
DESQGGRRKYYRLTEIGHENMRLAFESWSRVDKIIENLEANKKSEAIK
11110000000000000000000000000000000000000000000000000000000000000000011
110000000000000000000000000000000000001111111
>DM_train2491
MNDKKIELLTTYLSLYIDHHTVLADMQNATGKYVVLDVRNAPAQVKKDQIKGAIAMPAKDLATRIGE
LDPAKTYVVYDWTGGTTLGKTALLVLLSAGFEAYELAGALEGWKGMQLP
10000000000000000000000000000000000000011111110000000000000000000000000
000000000000000000000000000000000111111111111
>DM_train2492
MGSDKIHHHHHHMFYEIRTYRLKNGAIPAYLKVVEDEGIEIQKSHLGELVGYFFSEIGPINEIVHIWAF
SSLDDRAERRARLMADPRWLSFLPKIRDLIEVAENKIMKPARFSPLM
11111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000
>DM_train2493
GHMLYINSFLDRMGEIIRGEKSVEEADKLLDQKNIFEMFRSDCEEILNLYKSGKAEKEEVQRNFYLLK
TYVVSQLSIHFERLKEFAESKGFKIEKKLDPEVINEIALYIDRVEKEV
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000111000000000000000000000000
>DM_train2494
GSPGIRMSLKSDEVFAKIAKRLESIDPANRQVEHVYKFRITQGGKVVKNWVMDLKNVKLVESDDAA
EATLTMEDDIMFAIGTGALPAKEAMAQDKMEVDGQVELIFLLEPFIASLK
11100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000
>DM_train2495
GMQQSEHFSFGEQTEIEDIGGGLKRQMLGFNHELMAVKIWFDKGAEGYVHAHRHSQVSYVVEGEF
HVNVDGVIKVLTAGDSFFVPPHVDHGAVCPTGGILIDTFSPAREDFVEGLS
10000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000001111
>DM_train2496
MVERLLEIIERSLRKCPWLEKQSIETLLEALASEIEEVAEAVKKNDLANLEEEIGDMIYDALLVAAVAQ
RDYGIDLESAIQKVVEKISHRKPWLFWEEKISLEEAEKIWKERKKKI
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011
>DM_train2497
MERQPTTDRMIQEYVPGKQVTLAHLIANPGKDLFKKLGLQDAVSAIGILTITPSEASIIACDIATKSGA
VEIGFLDRFTGAVVLTGDVSAVEYALKQVTRTLGEMMQFTTCSITRT
11111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000
>DM_train2498

MDAENRVIINVGGIRHETYKATLKKIPATRLSRLTEGMLNYDPVLNEYFFDRHPGVFAQIINYYRSGK
LHYPTDVCGPLFEEELEFWGLDSNQVEPCCWMTYTAHRDTQETLAVL
11100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111111111
>DM_train2499
QSIYIELKNTGSLNQVFSSTQNSSIVIKFGAVWCKPCNKIKEYFKNQLNYYYVTLVDIDVDIHPKLNDQ
HNIKALPTFEFYFNLNNEWVLVHTVEGANQNDIEKAFQKYCLEKAK
00000000000000000010000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011
>DM_train2500
RTLPGEGTQVHPRAPLLQILKVAGAQEEVFTVKEVMHYLGQYIMMKQLYDKQRQHIVHCHDDPLGE
LLEVGSFSVKNPSPLYEMLKRNLVILNNSDAAKNLSVGKDSNESPSEDP
11111110000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111111111111111111
>DM_train2501
NVCQPTRFISRHNIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKGQVL
SVMFRFRSKNQEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQE
10000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111
>DM_train2502
MVTKTITEQRAEVRIFAGNDPAHTATGSSGISSPTPALTPLMLDEATGKLVVWDGQKAGSAVGILVLP
LEGTETALTYYKSGTFATEAIHWPESVDEHKKANAFAGSALSHAALP
11111111111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train2503
SNAMSYINNIEHAKVLDLTQEVMIEQDQMLSRTLVQRQDLGITVFSLDKGQEIGRHSSPGDAMVTILS
GLAEITIDQETYRVAEGQTIVMPAGIPHALYAVEAFQMLLVVVKPEA
10000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train2505
PKTQRGIYHNLKESEYVASNTDVTFFFSSELYLNKFLDGYQEYRKKFNKKIERVAVTPWNMDMLADI
TFYSEVEKRGFHAWLKGDNATWREVHVYALRIMTKPNTLDWSRIQKPR
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111
>DM_train2506
MTLIYKILSRAEWDAAKAQGRFEGSAVDLADGFIHLSAGEQAQETAAKWFRGQANLVLLAVEAEPL
GEDLKWEASRGGARFPHLYRPLLVSEVTREADLDLDADGVPQLGDHLAL
10000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>DM_train2507
MKYKLNVLLAEIALIGTGNHYHEEANCIAEWLHLKGEEEAVQLIRLSSLMNRGDYASALQQGNKLAY
PDLEPWLALCEYRLGLGSALESRLNRLARSQDPRIQTFVNGMREQLKT
11000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000001

>DM_train2508
ETGSKGQTAGELYQRWERYRRECQETLAAAEPPSGLACNGSFDMYVCWDYAAPNATARASCPWYLP
WHHHVAAGFVLRQCGSDGQWGLWRDHTQCENPEKNEAFLDQRLILERLQ
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111
>DM_train2509
MATATTIRRKLRTRRKVRTTTAASGRLRLSVYRSSKHIYAQIIDDSRGQTLAAASSAALKSGNKTDTA
AAVGKALAAAAAAEKGIKQVVFDRGSYKYHGRVKALADAAREGGLDF
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train2510
GMKTQITTRDLVLEFIHALNTENFPAAKKRLNENFTFNGPMGHREGSERYMNDMEKMKFKYVVH
KMFEEGNDVCLIYDINMNGKTIAASGLYHLEKGEITSLHVYFDPRPLFEE
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train2511
MNNKHATSAVHEIIREICRLVDSGHSMTRDQFHELSEQERFIAFLAEKYSSTIKLYYLADSSPLFEKDT
SSFIENAFGRHANTVVMEDFGLKSNALLLAINICLAILREINGEV
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111
>DM_train2512
HKGTLYVVATPLGNLDDMTFRAVNTLRNAGAIACEDTRRTSILLKHFGIEGKRLVSYHSFNEERAVR
QVIELLEEGSDVALVTDAGTPAISDPGYTMASAAHAAGLPVVPVPGA
00000000000000000000000000000000000000000000000000000001000000000000
00000000000001111111110000000000000000011
>DM_train2513
SNAMGYMFIETKTFTVKEGTSNIVVERFTGEGIIEKFEGFIDLSVLVKKVRRGDEEVVVMIRWESEEA
WKNWETSEEHLAGHRAGRGKPKPDHIINVDHAVYYVKSSKAAYQQS
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000011111111110000000000000000001111
>DM_train2514
MGSSSSGLVPAGSHMRLTPHEQERLLLSYAAELARRRRARGLRLNHPEAIAVIADHILEGARDGRTVA
ELMASGREVLGRDDVMEGVPEMLAEVQVEATFPDGTKLVTVHQPIA
11111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train2515
GMIRLLYLLVKPAGMSDETFRAECLRHYEMSHDVPGLHKYEVRLVAEQPTDTHVPFFDIGHVDAIGE
CWFKDDAAYATYMASDIRKAWFEHGKTFIGQLKPFRTAPVAGDEPAS
00000000000000000000000000000000000000000000000011111111111000000000000
00000000000000000000000000000000000000111111
>DM_train2516
MKNLSFPLLFLFFLVPELLGSSMPLCPIDEAIDKKIKQDFNSLFPNAIKNIGLNCWTVSSRGKLASCPE
GTAVLSCSCGSACGSWDIREEKVCHCQCARIDWTAARCCKLQVAS
11111111111111111111111100000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000
>DM_train2517
NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESGDASIHDTVENLIIL
ANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFINTS
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00001111100000000000000000000000000000000000
>DM_train2518
GAMDPEFTLSSEKKAKKVRFYRNGDRYFKGIVYAISPDRFRSFEALLADLTRTLSDNVNLPQGVRTIY
TIDGLKKISSLDQLVEGESYVCGSIEPFKKLEYTKNVNPNWSVNV
11111111111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2519
DAPSALYAPSALVLTVGKGVSATTAAPERAVTLTCAPGPSGTHPAAGSACADLAAVGGDLNALTRGED
VMCPMVYDPVLLTVDGVWQGKRVSYERVFSNECEMNAHGSSVFAF
11111000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2520
TCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDT
NADKQLSFEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111111111111111
>DM_train2521
MVDLEQEFALGGRCLAFHGPLMYEAKILKIWDPSSKMYTSIPNDKPGGSSQATKEIKPQKLGEDESI
PEEIINGKCFFIHYQGWKSSWDEWVGYDRIRAYNEENIAMKKRLAN
11111100000000000000000000000000000000000011111111110000000000000000
00000000000000000000000000000000000000000000
>DM_train2522
ATAFVPALVASGLPNEKFCFEGFLPQKKGRMTKLKSLVDEHRTMVFYESPHRLLKTLTQFAEYFGPE
RQVSVSREISKIHEETVRGTLSELIEHFTATDPRGEIVIVLAGIDD
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011
>DM_train2523
NSPQEEVELKKLKHLEKSVEKIADQLEELNKELTGIQQGFLPKDLQAEALCKLDRRVKATIEQFMKIL
EEIDTLILPENFKDSRLKRKGLVKKVQAFLAECDTVEQNICQETE
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111
>DM_train2524
NGLITKIWGTAGWTFNHAVTFGYPLNPTSDDKRRYKNYFISLGDVLPCRLCRESYKKFITTGKTALT
NEVLRNRHTLTKWFYDVHNAVNNKLEVDYGLSYEDVVNKYESFRAK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>DM_train2525
MSLILVYSTFPNEEKALEIGRKLLEKRLIACFNAFEIRSGYWWKGEIVQDKEWAAIFKTTEEKEKELY
EELRKLHPYETPAIFTLKVENVLTEYMNWLRESVLEGGSHHHHHH

1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111111111
>DM_train2526
GSHMGQNDLVKTLRMNYLFDFYQSLLTNKQRNYLELFYLEDYSLSEIADTFNVSRQAVYDNIRRTGD
LVEDYEKKLELYQKFEQRREIYDEMKQHLSNPEQIQRYIQQLEDLE
1111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>DM_train2527
LETPGQYLVYNGDLVEYEADHMAQLQRVHGFLMNDCLLVATWLPQRRGMYRYNALYPLDRLAVVN
VKDNPPMKDMFKLLMFPESRIFQAENAKIKREWLEVLEETKRALSDKR
1111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>DM_train2528
MNKPLTPSTYIRNLNVGILRKLSDFIDPQEGWKKLAVAIKKPSGDDRYNQFHIRRFEALLQTGLSPTC
ELLFDWGTTNCTVGDLVDLLVQIELFAPATLLLPDAVPQTVKSLP
1100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000111111
>DM_train2529
MQYATLELNNAFKVLFSLRQVQAAEMVIAPGDREGGPDNRHRGADQWLFVVDGAGEAIVDGHTQA
LQAGSLIAIERGQAHEIRNTGDTPLKTVNFYHPPAYDAQGEPLPAGEG
1000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011
>DM_train2530
GMARRDISGAVDFAYLEGFAAGDFAVVDEVLALFREQAALWAPMLDPTHPGWKDAVHTVKGAARG
VGAFNLGEVCERCEAGQESLEGVRTALDAALLDIAAYAHEQALRSLKG
1111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000001
>DM_train2531
ATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDAAGIALYSHEDVCVFKCSVSRETECSRVG
RQSFIITLGCNSVLIQFATPHDFCSFYNILKTCRGHTLERSVFSE
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111111111
>DM_train2532
EDKYTDKYDNINLDEILANKRLLVAYVNCVMERGKCSPEGKELKEHLQDAIENGCKKCTENQEKGAY
RVIEHLIKNEIEIWRELTAKYDPTGNWRKKYEDRAKAAGIVIPEE
1111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000111
>DM_train2533
MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEVNFREIPS
HVLSKVCMYFTYKVRYTNSSTEIPEFPIAPEIALELLMAANFLDC
1111111111111111000000000000000000000000000000111111110000000000000
000000000000000000000000000000000000000
>DM_train2534
MHFSIPETESRSGDSGGSAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLPAFPPKKLFSLT

PAEVEQRREQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQV
10000000000011111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2535
WSATNEEDDLSVEAEIAHQIAESFSKKYKFPSRSSGIFLYNFEQLKMNLDDIVKEAKNVPGVTRLAH
DGSKIPLRCVLGWVALANSKKFQLLVEADKLSKIMQDDLNRYTSC
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2536
LKSESAEKTREVLWQQYYASNPPDHAVLEVLATPVREALLARFGQHQGSVVPAIDLPELRSVLQQFD
SFGKRWEAILLQVLEGIKPNESQVGLPYLSELINKELMILLPSNS
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111100000000000000001111
>DM_train2537
MLQQNNIVYFDLDKYDIRSDFAQMLDAHANFLRSNPSYKVTVEGHADERGTPEYNISLGERRANAV
KMYLQGKGVSADQISIVSYGKEKPAVLGHDEAAYSKNRRAVLVYLE
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>DM_train2538
MNKTKSEHIKQQALDLFTRLQFLLQKHDTIEPYQYVLDILETGISKTKHNQQTPERQARVVYNKIAS
QALVDKLHFTAEENKVLAAINELAHSQKGWGEFNMLDTTNTWPSQ
11111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111111111
>DM_train2539
GMDKLVKYQELVKKLLTNYASDDVSDQDVEVQLILDTERNHYQWMNVGWQGLNRIYRCVIHFDIKD
GKIWLQQNLTDRNPAEELVMMGVPREDIVLGLQAPYKRQYTDYGVA
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>DM_train2540
MDTSLPSAILNNMVTATLILDDGLAIRYANPAAELLFSQSAKRIVEQSLSQLIQHASLDLALLTQPLQS
GQSITDSDVTFVVDGRPLMLEVTVSPITWQRQLMLLVEMRKID
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>DM_train2541
MAVRIRLAKFGRKHHPIYRIVVMDAKSPREGKYIDILGTYDPKRKVLINVYPEKVKEWVLKGVELSH
RAKAILWNHGILKEVVPEGYEMKRVGDYYVFEKRESKKSKGGEAA
10000000000000000000000011111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111
>DM_train2542
MGKATTEEQKLIEDVNASFRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQLVPKLDE
VYNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111
>DM_train2543

ATDAASLVGELQALDAEYQNLANQEEARFNEERAQADAARQALAQNEQVYNELSQRAQRLQAEAN
TRFYKSQYQEAASKYEDALKKLEAEMEQQKAVISDFEKIQALRAGN
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train2544
MAHHHHHHVDDDDKMSLLDAHIPQLIASHTAFAAKAGLMRHTIGQAEQQAMSAQAFHQGESAAA
FQGAHARFVAAAAKVNTLLDIAQANLGEAAGTYVAADAAAASSYTGF
11111111111111111111111111111000000000000000000000000000000000000000
00000000000000000001111111111111111111
>DM_train2545
MDGASEIELVFRPHPTLMEKDDSAQTRYIKTSGNATVDHLSKYLAVRLALEELRSKGESNQMNLDTA
SEKQYTIYIATASGQFTVLNGSFSLELVSEKYWKVNKPMELYYA
11110000000000000001110000000000000000000000000001111111111110000000
00000000000000000000000000000000000000
>DM_train2546
MKMQTYYYVLASRRFLLQEEPIEEVLKERTRHYHEQEKEIDFWLVPQPAFLEAPEFADIKAKCPQPA
AAIISTNSQFITWLKLRLEYVVTGEFSAPSETIPNPLASLATAS
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111
>DM_train2547
MDFREVIEQRYHQLLSRYIAELTKTSLYQAQKFSRKTIEHQIPPEEIISIHRKVLKELYPSLPEDVFHSL
DFLIEVMIGYGMAYQEHQTLRGIQQEIKSEIEIAANVQQTL
11110000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111111111111
>DM_train2548
SNAMATGGLAIIQSMKHKLPPSERKLADYILAHPHKAIESTVNEISALANSSDAAVIRLCKSLGLKGFQ
DLKMRVAGDLAKPTFQGYRDIVPHEPLPSISEKTAGNAIQAI
11110000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111111111111111111111
>DM_train2549
GQDCPDSSEEVVGVSGKPVQLRPSNIQTKDVSVQWKKTEQGSHRKIEILNWYNDGPSWSNVSFSDIY
GFDYGDFALSIKSAKLQDSGHYLLEITNTGGKVCNKNFQLLILD
11000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>DM_train2550
SFEKICSLDDIWVGEMETFETSDGTEVLIVNSEEHGVKAYQAMCPHQEILLSEGSYEGGVITCRAHLW
TFNDGTGHGINPDDAALAEYPVEVKGDDIYVSTKGILPNKAHS
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>DM_train2551
GSSGSSGPGSLSGTEQAEMKMAVISEHLGLSWAELARELQFSVEDINRIRVENPNSLLEQSVALLNLW
VIREGQNANMENLYTALQSIDRGEIVNMLEGSGRQSRNLKPDR
11111111100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111

>DM_train2552
MSIAVGMIETLGFPAVVEAADSMVKAARVTLVGYEKIGSGRVTVIVRGDVSEVQASVTAGIENIRRVN
GGEVLSNHIIARPHENLEYVLPIRYTEAVEQFREIVNPSIIRR
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111111111
>DM_train2553
MSMEDPFFVVKGEVQKAVNTAQGLFQRWTELLQGPSAATREEIDWTTNELRNNLRSIEWDLEDLD
ETISIVEANPRKFNLDATELSIRKAFITSTRQIVRDMKDQMSASS
00000000000000000000000000000000000000000000000000000000000000000000000000
00011110000000000000000000000000000000
>DM_train2554
MERGEIWLVSLDPTAGHEQQGTRPVLIVTPAAFNRVTRLPVVVPVTSGGNFARTAGFAVSLDGVGIRT
TGVVRCDQPRTIDMKARGGKRLERVPETIMNEVLGRLSTILT
00000000000000000000000000000000000000000000001111100000000000000000000
00000000000000000000000000000000000000
>DM_train2555
AEFKHVFVCVQDRPPGHPQGSCAQRGSREVFQAFMEKIQTDPQLFMTTVITPTGCMNACMMGPVV
VVYPDGVWYGQVKPEDVDEIVEKHLKGGEPVERLVISKGKPPGMF
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111
>DM_train2556
CILRFIACNGQTRAVQSRGDYQKTLAIALKKFSLEDASKFIVCVSQSSRIKLITEEEFKQICFNSSSPERD
RLIIVPKEKPCPSFEDLRRSWEIELAQPAALSSQSSLSP
00000000000000000000000000000000000000000000000000000111111111111100
00000000000000000000000111111111111111
>DM_train2557
MSENANDIVTLRAQGGSDAPSDQPLNQVITNSTRQFNIELIRVQPRGEMMQVWIQPLPFSQLVSWIA
YLQERQGVSVDAIDIDRGKVNGVVEVKRLQLKRGGLEHHHHHH
11111111111111111111100000000000000000000000000000000000000000000000000000
00000000000001111000000000001111111111
>DM_train2558
GGGGGGMLNRVFLEGEIESSCWSVKKTGFLVTIKQMRFFGERLFTDYYVIYANGQLAYELEKHTKKY
KTISIEGILRTYLERKSEIWKTTIEIVKIFNPKNEIVIDYKEI
11111100000000000000000000000000000000000000000000000000000000000000000000
00000001111110000000000000000001111111
>DM_train2559
GMAEPKFTSFTTADFINDVDMELFIDAVEKTAPVWVKEMKSRGLLKFSMNRVWNKGEVFRVVMTY
EYKDRASFEANIAYLEDTFGKNPVFLQLVTTAKFTTSRCLVVMEV
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>DM_train2560
AGRPAVSASSRWLEGIRKWYYNAAGFNKYGLMRDDTIYENDDVKEAIRRLPENLYDDRMFRIKRAL
DLNMRQQILPKEQWTKYEEDVPYLEPYLKEVIRERKEREEWDK
11111111100000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000
>DM_train2561
SHGSHETDEEFDARWVTYFNKPDIDAWELRKGMNTLVGYDLVPEPKIIDAALRACRRLNDFASAVRI
LEVVKDKAGPHKEIYPYVIQELRPTLNELGISTPEELGLDKV
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2562
GSHMTTKKASDSAFWLEVEGNSMTAPTGSKPSFPDGMLILVDPEQAVEPGDFCIARLGGDEFTFKK
LIRDSGQVFLQPLNPQYPMIPCNESCSVVGKVIASQWPEETFG
11111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2563
DLHEILHEAVPLDANEREILELKEDAFAQRRREIETRLRAANGKLADAIAKNPAWSPEVEAATQEVE
RAAGDLQRATLVHVFEMRAGLKPEHRPAYDRVLIDALRRGSQ
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2564
MKTLMVFDPAMAASTGVCGTDVDQALVDFSTDVQWLKQSGVQIERFNLAQQPMSFVQNEKVKAFI
EASGAEGLPLLLLDGETVMAGRYPKRAELARWFGIPLDKVGLAP
00000000011111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2565
MAYRALMVLRMDPADAEHVAAAFAEHDTTELPLEIGVRRRVLFRFHDLYMHLIEADDDIMERLYQA
RSHPLFQEVNERVGQYLTPYAQDWEELKDSKAEVFYSWTAPDS
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2566
PSSPSIDQVEPYSSTAQVQFDEPEATGGVPILKYKAEWRAVGEEVWHSKWYDAKEASMEGIVTIVGL
KPETTYAVRLAALNGKGLGEISAASEFKTQPVREPSAPKLEG
00000000000000000000000111100000000000000000000000000000000000000000000000000000000000000000000000000000000001111111111
>DM_train2567
MVNFKDKSMPTAIEKALDFIGGMNTSASVPHSMDESTAKGILKYLHDLGVPVSPEVVVARGEQEGW
NPEFTKKVAGWAEKVASGNRILIKNPEYFSTYMQEQLKELVLE
11111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2568
GSDYIIKEKTVLLQKKDSEGFGFVLRGAKAQTPIEEFTPTPAFPALQYLESVDEGGVAWRAGLRMGD
FLIEVNGQNVVKVGHRQVVNMIRQGGNTLMVKVVMVTRHPDM
00000000000000000000000000001111100000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2569
KAINNIVASFSSVNDAITQTAEAIHTVTIALNKIQDVVNQQGSALNHLTSQLRHNFQSGGRGSGRGGN
LTYLNLSSELKQLEAKTASLFQTTVELQGLIDQINSTYVDL

000000000000000000000000000000000000000000000000011111111111111111000000000000000000000000000000000001111
>DM_train2570
NNEIMPGKMKVKATKGEGDGGITSEGNALYNNEGGRAFMYAYVTTKPGMKYVKWEHDSGVVTVELEPPCRFVIDTPTGPQIKYLYFVKNLNNLRRGAVLGYIGATVRLQ
111111100000000000000000000000011110000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2571
MTDLPAGDRLTGIPSHILNSSPSDRQINQLAQRLGPEWEPMVLSLGLSQTDIYRCKANHPHNVQSQVVEAFIRWRQRFGKQATFQSLHNGLRAVEVDPSLLLHMLEELE
111111111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2572
MEEAKGPVKHVLLASFKDGVSPEKIEELIKGYANLVNLIEPMKAFHWGKDVSIENLHQGYTHIFESTFESKEAVAEYIAHPAHVEFATIFLGSLDKVLVIDYKPTSVSL
111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2573
SMFNNELMADVHFVVGPPGATRTVPAHKYVLAVGSSVFYAMFYGDLAEVKSEIHIPDVEPAAFLILLKYMYSDEIDLEADTVLATLYAAKKYIVPALAKACVNFLETSL
000000000000000000000000000000000000000000001111110000000000000000000000000000000000000000000000000000000000
>DM_train2574
MKWEMGLQEEYIELIKAGKKKIEGRLYDEKRRQIKPGDIIIFEGGKLKVKVKGIRVYSSFKEMLEKEGIENVLPGVKSIEEGVKVYRQFYDEEREKKYGVVAIEIEPIE
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2575
HMSNPLGELVKALEKLSFKPSDVRIYSLLLERGGMRVSEIARELDLSARFVRDRLKVLLKRGFVRREIVEKGWVGYIYSAEKPEKVLKEFKSSILGEIERIEKMFTDGS
110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2576
MAEESFYGVTLTAESDSVTWDVDEDYARGQKLVIKQILLGAEAKENEFNVVEVNTPKDSVQIPIAVLKAGETRAVNPDVEFYESKVTFKLIKGSGPVYIHGHNIKDDV
111000000000000000001111111000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2577
MASMSNGTPDIIVNAQINSEDENVLDFIIEDEYYLKKRGVGAHIIKVASSPQLRLLYKNAYSTVSCGNYGVLCNLVQNGEYDLNAIMFNCAEIKLNKGQMLFQTKIWR
111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2578
MGPMPKLADRKLCADQECSHPISMAVALQDYMAPDCRFLTIHRGQVVYVFSKLKGRGRLFWGGSVQ

GDYYGDLAARLGYFPSSIVREDQTLKPGKVDVKTDKWDFYCQ
11100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train2579
MEITSDMEEDKDLMLKLLDKNGFVLKKVEIYRSNYLAILEKRTNGIRNFEINNNGNMRIFGYKMME
HHIQKFTDIGMSCKIAKNGNVYLDIKRSAENIEAVITVASEL
11111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train2581
DDPIGLFVMRPQDGEVTVGGSITFSARVAGASLLKPPVVKWFKGKWVDLSSKVGQHLQLHDSYDRA
SKVYLFELHITDAQPAFTGSYRCEVSTKDKFDCSNFNLTVHE
00000000000000000000000000000001000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train2582
MLRYGDTEICIDPSESVLHLLGKKYTMLIISVLGNGSTRQNFNDIRSSIPGISSTILSRRIKDLIDSGLVE
RRSGQITTYALTEKGMNVRNSLMPLLQYISVLDRNGD
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000011
>DM_train2584
MSSAQFDHVTVIKKSNVYFGGLCISHTVQFEDGTKKTLGVILPTEQPLTFETHVPERMEIISGECRVKI
ADSTESELFRAGQSFYVPGNSLFKIETDEVLDYVCHLEG
11000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001
>DM_train2585
MLTVIAEIRTRPGQHHRQAVLDQFAKIVPTVLKEEGCHGYAPMVDCAAGVSFQSMAPDSIVMIEQW
ESIAHLEAHLQTPHMKAYSEAVKGDVLEMNIRILQPGISGRV
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111
>DM_train2586
MSTSADYKINQQQIVCVASFLSKEGKTEALIAALASLIPDTRREAGCIRYELNVSRDEPRRVTFVEKFV
DIAAFDEHCAKDAIQHYFHQVMPELVESFHVETYHQVIA
11111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000
>DM_train2587
MHRTTRIKITELNPHLMCVLCGGYFIDATTIIECLHSFCKTCIVRYLETSKYCPICDVQVHKTRPLLNIR
SDKTLQDIVYKLVPGLFKNEMKRRRDFYAAHPSADAAN
11111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111
>DM_train2588
MLAKNKGKIPGLKIDQKIRGQMPERGWTEDDIKNTVSNGATGTSFDKRSPKKTPPDYLGRNDPATV
YGSPGKYVVVNDRTGEVTQISDKTDPGWVDDSRIQWGNKNDQ
11111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111
>DM_train2589

RYCKRTIPPGYKVDQVFGPRTKGKEGNFGDDKMNEEGIKDGRVTAMLNLVPSSHACLFGSRVTPKLQ
PDGLHLKFEFTTVVPRDDPQFDNYVKICDQCVDGVGTRPKD
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001
>DM_train2590
ADDAKPRVKVPSSAKAGETVTVKALISHKMESGQRKDADGKLIPRSIINRFTCELNGVNVVDVAIDPA
VSTNPYFEFDAKVDAAGEFKFTWYDDDGSVYEDVKPIAVA
11000000000000000000000000000000000001111111000000000000000000000000000
0000000000000000000000000000000000000
>DM_train2591
AQQSPYSAAMAEQRHQEWLRFVDLLKNAYQNDLHLPLLNLMLTPDEREALGTRVRIVEELLRGEM
SQRELKNELGAGIATITRGSNSLKAAPVELRQWLEEVLLKSD
11100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train2592
YEVPKAKIDVFYPKGFEVSIPDEEGITLFAFHGKLNEEMEGLEAGTWARDIVKAKNGRWTFRDRITA
LKPGDTLYYWTYVIYNGLGYREDDGSFVVNGYSGNNASPH
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000111111
>DM_train2593
GLFDFLKRKEVKEEEKIEILSKKPAGKVVVEEVVNIMGKDVIIGTVESGMIGVGFKVKGPSGIGGIVRIE
RNREKVEFAIAGDRIGISIEGKIGKVKKGDVLEIYQT
11111111111111110000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>DM_train2594
MNDMGSSEVNDENKEKEARYSVMTKSELEALAVSAIREHRRLLWADQAVYEEWLRASDDPSISGPV
LQTLQDEYVARQKRSEAQQEELSDILDALGFVPDVPFDDDN
11111111111111110000000000000000000000000000000000000000000000000000000
000000000000000000000000000000011111
>DM_train2595
PLGSQFWVTVQRTEAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMF
SFEAGRRCPSGPGTFTFQTAQGNDIFQAVETAIHRQKAQG
00000000000000000000000000000000111100000000000000000000000000000000000
000000000000000000000000000000001111
>DM_train2596
ENLYFMLEMEIKITEVKENKLIGRKEIYFEIYHPGEPTPSRKDVKGKLVAMLDLNPETTVIQYIRSYFG
SYKSKGYAKYYYDKDRMLYIEPEYILIRDGIIEKKEGE
11111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000011111
>DM_train2599
MAPTQLDIKVKALKRLTKEEGYYQQELKDQEAHVAKLKEDKSVDPYDLKKQEEVLDDTKRLLPTLY
EKIREFKEDLEQFLKTYQGTEDVSDARSAITSAQELLDSK
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000

>DM_train2600
MIPGEYHVKPGQIALNTGRATCRVVVENHGDRPIQVGSHYHFAEVNPALKFDRQQAAGYRLNIPAGT
AVRFEPGQKREVELVAFAGHRAVFGFRGEVMGPLEVNDE
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2601
MGKTNDWLDFDQLAEEKVRDALKPPSMYKVILVNDDYTPMEFVIDVLQKFFSYDVERATQLMLAV
AYQGKAICGVFTAEVAETKVAMVNKYARENEHPLLCTLEKA
11111111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2602
MAQKKPKRNLSALKRHRQSLKRRLRNKAKKSAIKTLSKKAIQLAQEGKAEEALKIMRKAESLIDKA
AKGSTLHKNAAARRKSRLMRKVRQLLEAAGAPLIGGGLSA
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2603
VLLESEQFLTELTRLFQKCRTSGSVYITLKKYDGRTKPIPKKGTVEGFEPADNKCLLRATDGKKKISTV
VSSKEVNKFQMAYSNLLRANMDGLKKRDKKNKTKKTK
00000000000000000000000000000000011111111111111111100000000000000000000000000000000000000000111111111111
>DM_train2604
HFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKVLAIDHLNEDQLREKAKELWQTIYNLEAEKF
DLQEKFKQQKYEINVLRNRINDNQKVSKTRGKAKVTGRWK
11111111111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2605
GSVSKWVRLNVGGTYFLTTRQTLCRDPKSFLYRLCQADPDLDSDKDETGAYLIDRDPTYFGPVLNYL
RHGKLVINKDLAEEGVLEEAEFYNITSLIKLVKDKIRER
11100000000000000000000000000000000011111111000000000000000000000000000000000000000000000000000000000000000
>DM_train2606
VETKCPNLDIVTSSGEFHCSGCVEHMPEFSYMYWLAKDMKSDEDTKFIEHLGDGINEDETVRTTDG
GITTLRKVLHVTDTNKFAHYRFTCVLTTLDGVSKKNIWLK
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2607
GMTESDRDQEASMREVVIVKSTPQRGKFNAFAELVGKLVSETRDFPGCLGAYLMLAPERNEQVVMH
IWETPDALEAYLTWRADRGDFLEINEYLEVEQDFKTYQLA
11111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2608
TKAIPWKINWQTMAFEYIGPQIEALLGWPQGSWKSVEDWATRMHPEDQEWVVNFCVKQSECGVD
HEADYRALHRDGHYVWIRDVVHVVRDDSGEVEALIGFMFDIS
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000
>DM_train2609
PIEPQSDAHVLKSRLEWGEPAFTILDVRDRSTYNDGHIMGAMAMPIEDLVDRASSSLEKSRDIYVYG
AGDEQTSQAVNLLRSAGFEHVSELKGGLAAWKAIGGPTE
11111100000000011100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train2610
GMNKKTQLLEVIAALPEELVDQALNYVQMLQNPIQITPGVCGGQARIRNTRIPVWTLVAYRQQGAPD
KELLANYPGLTAEDLSAAWHYYEQNPEQIDREIAQDDLV
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111
>DM_train2611
SMALGPFPAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLDVIGQVLPEATTTAFEYEDEDGDR
ITVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRA
11111111111100000000000000000010000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train2612
MITVDITVNDEGKVTDVIMDGHADHGEYGHDIVCAGASAVLFGSVNAIIGLTSERPDINYDDNGGHF
HIRSVDTNNDEAQLILQTMLVSLQTIEEEYNENIRLNYK
00000000000000000000011111111110000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train2613
MTLEKHAFKMQLNPGMEAEYRKRHDEIWPELVDLLHQSGASDYSIHLDRETNTLFGVLTRPKDHT
MASLPDHPVMKKWWAHMADIMATNPDNSPVQSDLVTLFHMP
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>DM_train2614
VGFAPELYCGLENCYDVLEVNREEFDKQKLAKAYRALARKHHPDRVKNKEEKLLAEERFRVIATAYE
TLKDDEAKTNYDYYLDHPDQRFYNYYQYYRLRAAPKVDL
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111
>DM_train2615
MGEETINSTQNKTRTKTTRPKAVYLWTVSDVLKWYRRHCGEYTQYEQLFAQHDITGRALLRITDSS
LQRMGVTDNRDREAIWREIVKQRLKTDIMEIRDMERLNIY
11111111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000001
>DM_train2616
EAEASNMSSAHKCIDTNVPENAACYRYLDGTEEWRCLLGFKEVGGKCVPASITCEENNGGCAPEAEC
TMDDKKEVECKCTKEGSEPLFEGVFCSSSSGPHHHHHH
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111
>DM_train2617
GMKNEVFFGEGMKVVAAAYPDLYDIIVKLNDTVFTGKTLDYKTQKLIAIGIVASRCDEVAIEKQMKSA
MKELGITKEEIADVLRVVLLTSGMPAFTKAMKILEKL

1111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

>DM_train2618
MPVVKINAIEVPAGAGPELEKRFAHRAHAVENSPGFLGFQLLRPVKGEERYFVVTHWESDEAFQAWANGPAIAAHAGHRANPVATGASLLEFEVVLDVGGTGKTA
1000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111

>DM_train2619
GPHMATADRDILARLHKAVTSHYHAITQEFENFDTMKTNTISREEFRAICNRRVQILTDEQFDRLWNEMPVNAKGRLKYPDFLSRFSSETAATPMATGDSAVAQR
1111000000000000000000000000000000000000000000000000000000000000000000000000000000011111111111111111

>DM_train2620
MSPFKKTYVLKLYVAGNTPNSVRALKMLKNILEQEFQGVYALKVIDVLKNPQLAEEDKILATPTLAKILPPPVRKIIGDLSDREKVLIGLDLLYDEIREREAEDQ
1111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111111

>DM_train2621
QTLDIQRGATLFNRACAACHDTGGNIIQPGATLFTKDLERNGVDTEEEIYRVTYFGKGRMPGFGEKCTPRGQCTFGPRLQDEEIKLLAEFVKFQADQGWPTVSTD
1100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111

>DM_train2622
GHMTETKPRIAIRYCTQCNWLLRAGWMAQEILQTFASDIGEVSLIPSTGGLFEITVDGTIIWERKRDGGFPGPKELKQRIRDLIDPERDLGHVDRTKHEGLDTGS
1111000000000000000000000000000000000000000000000000000000000000000000000000000000111111111111111111

>DM_train2623
MDKPILKDSMKLFEALGTIKSRSMFGGFGLFADETMFALVVNNQLHIRADQQTSSDFETQGLKPYVYKKRGFPVVTKYYAISSELWESSDRLIEVAKKSLENAKL
1100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001

>DM_train2624
GAMGKCPTKVVLLRNMVGAGEVDEDLEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFERVESAIKAVVDLNGRYFGGRVVKACFYNLDKFRVLDLAEQV
1000000000000000000000111000000000000000000000000000000000000000000000000000000000000000000000000000

>DM_train2625
GMINMKVAISMDVDKISNSFEDCKYFLIVRIDDNEVKSTKVIFNDESGKKSIVKENVNAIICKNISEENYKKFSKKIEIYHAEGDDVDKNISLFIEGELSKISNP
1000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

>DM_train2626
YRALFEHAIDGIFIMDAEGHYLDVNPAICSAIGYTRDEFLALDWGVLSRGVDSGWAAASLARIVGGEP

LREERTVWTRNGDQLTVELSAHLLPDGKILGIARDVS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2627
GSMSSDAQWLTAEERDQLIPGLKAAGWSELSERDAIYKEFSFKNFNQAFGFMSRVALQAEKMNHHP
EWFNVYNKVQITLTSHDCGGLTKRDVKLAQFIEKAAASL
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2628
SQTIALLNIYRNPQNSSQSADGLRSAVSDVEMQEHYDEFFEEVFTEMEEKYGEVEEMNVCDNLGDH
LVGNVYVKFRREEDAEKAVIDLNNRWFNGQPIHAELSP
00000000000001111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2629
SKGMALRSVGGMVIESPRNETEHWLLETVGRQAQQAGIGMPTVAIYDSADINAFATGAKRDDSLVAV
STGLLHNMTRDEAEAVLAHEVSHIANGDMVTMTLMQG
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2630
MNRDQEKIQIENEMNAMHGTIKEDILKDFEEFKGYLKKQVNRGKKLGLDDGKLVKSAAILGDYLAK
HEEPQNGEEMLLQELWSVADEDEKEHLAQLLVKLVDKQ
11111111111111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2631
MARPNFRYTHYDLKELRAGTTLEISLSSVNNVRLMTGANFQRFTELLDFKYLGGVAKKSPIRIAVPE
TMHWHLIIDAEGHSGLAESSVKMLPAQPQATLTRKAS
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2632
MSHTILLVQPTKRPEGRTYADYESVNECMEGVCKMYEEHLKRMNPNSPSITYDISQLFDFIDDLADL
SCLVYRADTQTYQPYNKDWIKEKIYVLLRRQAQQAGK
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2633
GHMTKLALFVRLEAKPGQEAALADFLASALPLANAESGTTAWFALKFGPSTFGVFDAFADEAGRQA
HLNGQIAAALMANAATLLSSPPNIEKVELLAAKLPAGS
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2634
MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIR
DAVTYTEHAKRKTVTAMDVVYALKRQERTLYGFGG
11111111111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2635

GAKPGKKTRGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATR
KLQPMITSETGKALIQTCLNSPDSPPRSDPTTDQR
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111111111111
>DM_train2636
MTARNPLEAQAWALLEAVYDPELGLDVVNLGLIYDLVVEPPRAYVRMTLTTPGCPLHDSLGEAVRQ
ALSRLPGVEEVEVEVTFEPPWTLARLSEKARRLLGWG
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2637
NGYTMQRDNQKTLAVYMFEEINRDVEYLSGRLSEKELKDKYRYYGRGYVRITDKDGQVITYEDGSV
QDKTVFLTNEGANKLGWKLEFLIDEKMFEEEILEKQN
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2638
MSTLADQALHNNNVGPIIRAGDLVEPVIETAEIDNPGKEITVEDRRAYVRIAAEGELILTRKTLEEQLG
RPFNMQELEINLASFAGQIQADEDQIRFYFDKTM
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2639
GKKQPSLHYTAAQLLEKGVLVEIEDLPASHFRNVIFDITPGDEAGKFEVNAKFLGVDMERFQLHYQD
LLQLQYEGVAVMKLFNKAKVNVNLLIFLLNKKFLRK
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2640
MKSITTDELKNKLLESKPVQIVDVRTDEETAMGYIPNAKLIPMDTIPDNLNSFNKNEIYYIVCAGGVR
SAKVVEYLEANGIDAVNVEGGMHAWGDEGLEIKSI
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2641
TNRLVLSGTVCRAPLRKVSPSGIPHCQFVLEHRSVQEEAGFHRQAWCQMPVIVSGHENQAITHSITV
GSRITVQGFISCHKAKNGLSKMVLHAEQIELIDSGD
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2642
GPLGSEQIGKLRSELEMVSGNVRVMSEMLTELVPTQAEPADLELLQELNRTCRAMQQRVLELIPQIA
NEQLTEELLIVNDNLNNVFLRHERFERFRTGQTTKA
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2643
SATEPPKIVWNEGKRRFETEDHEAFIEYKMRNNGKVMDLVHTYVPSFKRGLGLASHLCVAAFEHAS
SHSISIIPSCSYVSDTFLPRNPSWKPLIHSEVFKSSI
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111

>DM_train2644
SNAMEFAPRSVVIEEFIDTLEPMMEAYGLDQVGIFEEHGEGNRYYVGYTINKDDEMITIHMPFVKNE
RGELALEKQEWTVRKDGREKKGFHSLQEAMEEVIHS
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2645
SANVTQAFGRRGPEQTQGNFGDQDLIRQGTDYKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLT
YHGAIKLDDKDPQFKDNVILLNKHIDAYKTFPPTEPK
11111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2646
DYKDDDDKVKLYKTNKYGTLYKSESASFTANTDIITRLTGPFRSMPQSGVLRKGLTIKYDEVMKQDG
HVWVGYNTNSGKRVYLPVRTWNESTGELGPLWGTIK
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2647
AHHHHHHGSSTRGDLIRILGEIEEKMNELKMDGFNPDIILFGREAYNFLSNLLKKEMEEEGPFTHVS
NIKIEILEELGGDAVVIDSKVLGLVPGAAKRIKIIK
11111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2648
GMTMFLHVVMMEFDDGIDAGFFRTVDEYVARMKRECDGLLLYHFGENVAARSQGYTHATSSAFVD
AAAHDAYQVCPAHVAMKAFMGPRIKRVVVYDGEVPAIG
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2649
KILAVTACPTGIAHTFMAADALKEKAKELGVEIKVETNGSSGIKHKLTAQEIEDAPAIIVAADKQVEME
RFKGKRVLQVPVTAGIRRPQELIEKAMNQDAPIY
00000000000110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2650
QDKKTMMMNEEDDGNGMDELLAVLGYKVRSSEMADVAQKLEQLEVMMSNVQEDDLSQLATETV
HYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQ
11111111111111100000000000000000000000000000000000011111110000000000000000
00000000001111111111111111111111
>DM_train2651
MKRVMIGAVAALTMLSGQALAGDAAAGQAKAAVCAACHGADGNATIPGYPNLKGQNEQYIVSSIKAY
KNKERSGGLAAVMQAQASLLSDDDIANLAAYYSSLK
11111111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2653
VNFEVKDQTLMMELVPERLRGETATFDIEADGKVYVEKGRRVTARHIRQLEKDGVNFIEVPVEYIVG
KVSAKDYVNEATGELIITANQEISLEALANLSQAG
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000011
>DM_train2654
MDSAKLIFINQINDCKDGQKLRFLGCVQSYKNGILRLIDGSSSVTCDVTVVLPDVSIQKHEWLNIVGR
KRQDGIVDVLLIRSAVGINLPRYRQMVSERQKCD
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2655
MRGRLQGVELIARDWIGLMVEVVESPNHSEVGIKGEVVDETQNTLKIMTEKGLKVVAKRGRTFRVW
YKGKIMRIKGDLINFRPEDRIKRGLMMLKRAKGVWI
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2656
GAVTGPRKGGSRRNAWGNQSYAELISQAIESAPEKRLTLAQIYEWMVRTVPYFKDKGDSNSSAGWK
NSIRHNLSLHSKFIKVHNEATGKSSWWMLNPEGGKS
11111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2657
EAQSEKEEAPKPLHKVVVCVSKKLSKKQSELNGIAASLGADYRRSFDETVTHFIYQGRPNDTNREYK
SVKERGVHIVSEHWLLDCAQECKHLPESLYPHTYN
11111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2658
GMTSPVAVIARFMPRPDARSALRALLDAMITPTRAEDGCRSYDLYESADGGELVLFERYRSRIALDEH
RGSPHYLNYRAQVGELLTRPVAVTVLAPLDEASA
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2659
MKAYLGLYTARLETPARSLKEKRALIKPALERLKARFPVSAARLYGLDAWGYEVVGFTLLGNDPAWV
EETMRAAARFLAEAGGFQVALEEFRLEAFELDGLL
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2660
MSILHTVNKSPFERNSLESCLKFATEGASVLLFEDGIYAALAGTRVESQVTEALGKLKLYVLGPDLKA
RGFSDERVIPGISVVDYAGFVDLTTECDTVQAWL
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2661
HHMGNLNRCIADIVSLFITVMDKLRLEIRAMDEIQPDLRELMETMNRMSHLPPDFEGREKVSQWL
QKLSSMSASDELDDSQVRQMLFDLESAYNAFNRFLHS
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2662
MTQEVDQQILLQQLKSDYRQILLSYFTTDKALKEKIDKFINAVFCANIPVPEIIEIHMELIDEFSKQLRL
EGRGDETLMDYRLTLIDILAHLCEAYRGAIFK

11100000000000000000000000001100000000000000000000000000000000000001
1100110000000000000000000001
>DM_train2663
MKPRDINKLIASKIFGYEIKDDNIIKDGRYRLGIPLYSQNIESAWQVVEKLEYDVKVTKTDLKPKYQV
HVFVPGGVKMVFAETAPMAICKGALASVDIELQD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111
>DM_train2664
MELEDANVTKKVELRPLIGLTRGLPPTDLETITIDAIRTHRRLVEKADELFQALPETYKTGQACGGPQ
HIRYIEASIEMHAQMSALNTLISILGFIPKVVVN
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000111
>DM_train2666
MKKHIIIKTIPKKEEIISRDLCDCIYYYDNSVICKPIGPSKVYVSTSLENLEKCLQLHYFKKLVKNIEIFD
EVHNSKPNCDKCLIVEIGGVYFVRRVNGVPR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>DM_train2667
RPGADCEVCKEFLNRFYKSLIDRGVNFSLDTIEKELISFCLDTKGKENRLCYYLGATKDAATKILSEVT
RPMSVHMPAMKICEKLKKLDSQICELKYEKTLD
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011
>DM_train2668
ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPA
LVHQRPAPPSTVTTAGVTPQPESLSPSGKEPAAS
00000000000000000000000000000000000000000000000000000000000000000000
00111111111111111111111111111
>DM_train2669
MRRYEVNIVLNPNLDQSQLALEKEIIQRALENYGARVEKVAILGLMVLAYPIAKDPQGYFLWYQVEM
PEDRVNDLARELRIRDNVRRVMVVKSQEPFLANA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111
>DM_train2670
QALSYREAVLRAVDRLNEQSSEANLYRLLELDQPPKADEDPGTPKPVSFTVKETVCPRPTRQPPELC
DFKENGRVKQCVGTVTLDQIKDPLDITCNEVQGV
00000000000000000000000000000011111111100000000000000000000000000000
00000000000001111000000000000
>DM_train2671
MSPTSILDIRQGPKEPFRDYVDRFYKTLRAEQASQEVKNWMTETLLVQNANPDCKTILKALGPGAT
LEEMMTACQGVGGPGHKARVLAEAMSQVTNPATIM
11100000000000000000000000000000000000000000000000000000000000000000
00011111111111111111111111111
>DM_train2672
MGRKLELTKAEKHVHNFMMDTQLTKRVKNAAANVLRETWLIYKNTKLVKKIDHAKVRKHQRKFL

QAIHQLRSVKMEQRKLNDQANTLVDLAKTQLEHHHHH
11111111111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2673
GTEEYRIGEIFLAATEENKPQVFANAEKIVEQLKQGGSFVAYARQYSEASTAAVGGDLGWIRLAQLPT
ELATTAASMGPGQLAGPVEIRGGFSILYLIDKR
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2674
GMSDPRTQPLEIRPLMISRVMEVDWADGHTSRLTFEHLRVECPCAECKGHTPDQAQIVTGKEHVSV
VEVVPVGHYAVQLHFSDGHNTGIFTWEYLRRLDAE
11000000000000000000000000000000000000000000011111111110000000000000000000000000000000000000000000000000
>DM_train2675
MGSDKIHHHHHHHMEVKIEKPTPEKLKELSVEKWPIWEKEVSEFDWYYDTNETCYILEGKVEVTTE
DGKKYVIEKGDLVTFPKGLRCRWKVLEPVRKHYNLF
11111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2676
MKKWSDTEVFEMLKRMYARVYGLVQGVGFRKFVQIHAIRLGIKGYAKNLPDGSVEVVAEGYEEALSK
LLERIKQGPPAAEVEKVDYSFSEYKGEFEDFETY
11111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2677
RVQSGKIDCGDDAGWAKVPSDDPGRDNTRELAKNITFASPYCRPPVVLLSITQLDVEQSQNLRVIARL
YSVSPSGFKASCYTWHNTKVYSMSISWISIENY
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2678
TTPVPVSGSLEVKVNDWGSGAEYDVTLNLDGQYDWTVKVKLAPGATVGSFWSANKQEGNGYVIFT
PVSWNKGPTATFGFIVNGPQGDKVEEITLEINGQVI
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2679
QPVISAQEQETQIVLYGKLVEARQKHANKMDVPPAILATNKILVDMAKMRPTTVENVKRIDGVSEGK
AAMLAPLLEVIKHFCQTNSVQTDLFSSTKPQEEQ
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111111
>DM_train2680
MKTPEDCTGLADIREAIDRIDLDIVQALGRRMDYVKAASRFKASEAAIPAPERVAAMLPERARWAEE
NGLDAPFVEGLFAQIIHWYIAEQIKYWRQTRGAA
00000000000000000000000000000000000000000011111111110000000000000000000000000000000000000000001111111
>DM_train2681

GAMLYLIFYDITDDNLRNRVAEFLKKKGLDRIQYSVFMGDLNSSRLKDVEAGLKIIGNRKKLQEDERF
FILIVPITENQFRERIVIGYSGSEREEKSNVVW
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000111111111111
>DM_train2682
SNAEDITETSPDKWLIDGDTPLDEVERAIGYELPEGDYETISGLLFDHANALLKTGDVIEIPLDFEPE
DYLNNTSPTQRILRITVLEVERNVPVKLALALL
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train2683
MKKRLTESQFQEAIQGLEVGQQTIEIARGVLVDGKPQATFATSLGLTRGAVSQAVHRVWAAFEDKNL
PEGYARVTAVLPEHQAYIVRKWEADAKKKQETKR
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111111
>DM_train2684
GAMAQVPTDPGYFSVLLDVKHFSPEEISVKVVGDHVEVHARHEERPDEHGFIAREFHRRYRLPPGV
DPAAVTSALSPEGVLSIQATPASAQASLPSPPAAK
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>DM_train2685
GSHMYYVIFAQDIPNTLEKRLAVREQHLARLKQLQAENRLLTAGPNPAIDDENPSEAGFTGSTVIAQF
ENLQAAKDWAAQDPYVEAGVYADVIVKPFKKVF
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train2686
GSSSSLPLYNQQVGDCCIIRVSLDVDNGNMYKSILVTSQDKAPTVIRKAMDKHNLDEDEPEDYELLQI
ISEDHKLKIPENANVFYAMNSAANYDFILKKR
11111111111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>DM_train2687
SNTQAERSIIGMIDMFHKYTRRDDKIDKPSLLTMMKENFPNFLSACDKKGTNYLADVFEKKDKNED
KKIDFSEFLSLLGDIATDYHKQSHGAAPCSGGSQ
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>DM_train2688
SSAEQSFLFSREEADTLRLKVEELEGERSRLEEEKRMLEAQLERRALQGDYDQSRTKVLHMSLNPTS
VARQRLREDHSQLQAECERLRGLLRAMERGGTV
11111111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>DM_train2689
MEKMSSGTPTPSNVVLIGKKPVMNYVLAALTLLNQGVSEIVIKARGRAISKAVDTVEIVRNRFLPDKI
EIKEIRVGSQVVTSQDGRQSRVSTIEIAIRKK
11111111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000

>DM_train2690
MRGSHHHHHHGSMAQKTFKVTADSGIHARPATVLVQTASKYDADVNLEYNGKTVNLKSIMGVMSL
GIAKGAEITISASGADENDALNALEETMKSERLGE
11111111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2691
ELIRVAILWHEMWHEGLEEASRLYFGERNVKGMFEVLEPLHAMMERGPQTLKETSFNQAYGRDLM
EAQEWCRKYMKSGNVKDLTQAWDLYYHVFRRISKQ
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2692
MSLTDSKVKNAKSLEKEYKLTDGFGMHLLVHPNGSKYWRLSYRFEKKQRLLALGVYPAVSLADARQ
RRDEAKKLLAAGIDPSAKKQADNKTIQEKRNNTR
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2693
GAHVSRVEKLPKDYQIVYKEIQKYLFKVGPVELNEGIGLLSEILGFFEEGAAAGKGVLDVTGTDVAAFC
DALIGDSKTYADLYQESIQQHVDKAMKNMKD
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111111
>DM_train2694
SMDNLVLIRMKPDENGRFGFNVKGGYDQKMPVIVSRVAPGTPADLCVPRLNEGDQVVLINGRDIAE
HTHDQVVLFIKASCERHSGELMLLVRPNAVESTV
10000000000001000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111000000000000000
>DM_train2695
GAMGNLRLIGVPESDVENGTKLENTLQDIIQENFPNLARQANVQIQEIQRTPQRYSSRRATPRHIIVR
FTKVEMKEKMLRAAREKGRVTLKGKPIRLTVD
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2696
MAEPGIDKLFGMVDSKYRLTVVVAKRAQQLLRHRFKNTVLEPEERPKMRTLEGLYDDPNAVTWAM
KELLTGRLFFGENLVPEDRLQKEMERLYPTEEEA
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2697
AKVKIKPLEDKILVQAGEAETMTPSGLVIPENAKEKPQEGTVVAVGPGRWDEDGAKRIPVDVSEGDI
VIYSKYGGTEIKYNGEEYLILSARDVLAVVSK
00000000000000001111111111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2698
MSRSRQPPLVTGISPNEGIPWTKVTIRGENLGTGPTDLIGLTICGHNCLLTAEWMSASKIVCRVGQAK
NDKGDIIVTTKSGGRGTSTVSFKLLKPEKIG
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000001111
>DM_train2699
PITGPHIAYTEAVSDTQIMLKWTYIPSSNNNTPIQGFYIYYRPTDSDNDSDYKRDVVEGSKQWHMIG
HLQPETSYDIKMQCFNEGGESEFSNVMICETK
11100000000000000000000011111111100000000000000000000000000000000000000
00000000000000000000000000000
>DM_train2700
AELRLLMFEQPGCLYCARWDAEIAPQYPLTDEGRAAPVQRLQMRDPLPPGLELARPVTFTPTFVLM
AGDVESGRLEGYPGEDFFWPMLARLIGQAEPGQ
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011
>DM_train2701
HRVINHPYYFPFNGKQAEDYLRSKERGDFVIRQSSRGDDHLAITWKLDKDLFQHVDIQEMEKENPL
AMGKVLVVEGQRYHDLDQIIVEYLQNKIRLLNE
00000000000000000000000000000000000000000000000000000000011111111000
00000000000000000000000001
>DM_train2702
STMPLAELGARLYREKACFSCHSIDGSRLVGPSFKGLYGSTRTFEDGTTAVADENYLRESILQPGAKVV
QGYPNVMPASYASLSEREVAALIEFIKQQQ
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>DM_train2703
MNERLKEKLAVLPEQPGCYLMKDKHGTVIYVGKAKSLKERVRSYFTGTHDGKTQRLVEEIADFEYIV
TSSNAEALILEMNLIKKHDPKYNVMLKDDKSY
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111
>DM_train2704
GHMAKGYWIAQVDVRDSERYKDYVSTAKPAFERFGANFLARGGSVTELEGTARARNVVIEFPSVQH
AIDCYNSPEYQAAAKIRQEVADAEMMIVEGIGS
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001
>DM_train2705
SDLQRLKFIRHARQLGFSLESIRELLSIRIDPEHHTCQESKGIVQERLQEVEARIAELQSMQRSLQRLN
DACCGTAHSSVYCSILEALEQGASGVKSGC
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111
>DM_train2706
MMLIDCPNCGPRNENEFKYGGEAHVAYPADPHALSDKQWSRYLFYRQNKKGIFAERWVHAAGCRK
WFNALRDTVTYEFKAIYPAGAPRPEIHSAEGGTR
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111
>DM_train2707
ASWSHPQFEKSGGGGGLVPRGSKRADAGTASALAASQLPQATMPGKSMVAIAGSSYQGQNGLAIGVS
RISDNGKVIIRLSGTTNSQGKTGVAAGVGYQW

11111111111111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2708
SDFANLSSTNKELSPQYNWVACGILEGGLKAAGVLEEGQYNRELAEAIAAKGEGFWTTQFPQIGDW
NEDQAAALADRAQTCGLVKADTYLSELSSNFSS
11111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2709
MTVFVDHKIEYMSLEDDAELLKTMAHPMRLKIVNELYKHKALNVTQIIQILKLPQSTVSQHLCKMR
GKVLKRNRQGLEIYYSINNPKVEGIIKLLNPIQ
11111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2710
MFEQRVNSDVLTVSTVNSQDQVTQKPLRDSVKQALKNYFAQLNGQDVNDLYELVLAEVEQPLLDMV
MQYTRGNATRAALMMGINRGTLRKKLKKYGMN
11111111100001111111111100000000000000000011110000000000000000000000000000000000000000000000000000000000
>DM_train2711
MPSKKKKYNARFPPARIKKIMQTDEEIGKVAAAVPVIISRALELFLESLLKKACQVTQSRNAKTMTTS
HLKQCIELEGDPAANKARKEAELAAATAEQ
11111111100000000000000000000000000000000000000000000000000000000000011100000000000001111111111111111111111111111
>DM_train2712
DPNLWTVKCKIGEERATAISLMRKFIAYQFTDTPLQIKSVVAPEHVKGYIYVEAYKQTHVKQAIEGVG
NLRLGYWNQQMVPIKEMTDVLKVVKEVANL
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2713
MNTLELSARVLECGAMRHTPAGLPALELLLVHESEVVEAGHPRRVELTISAVALGDLALLLADTPLGT
EMQVQGFLAPARKDSVKVKLHLQQARRIAG
00000000000000000000000000000000000000011111100000000000000000000000000000000000000000000000000000000011
>DM_train2714
MNSCILQATVVEAPQLRYAQDNQTPVAEMVVQFPGLSSKDAPARLKVVGWGAVAQELQDRCRLNDE
VVLEGRLRINSLLKPDGNREKQTELTVTRVHH
00000000000000000000000000000000000000011111000000000000000000000000000000000000000000000000000000000000
>DM_train2715
SPLAVGLAAHLRQIGGTMYGAYWCPHCQDQKELFGAAFDQVPYVECSPNGPGTPQAQECTEAGITSY
PTWIINGRTYTGVRSLEALAVASGYPLEEGR
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2716
SWVWNQMFVLEEFSGPEPILVGRLHTDLDPGSKKIKYILSGDGAGTIFQINDITGDIHAIKRLDREEK

AEYTLTAQAVDFETNKPLEPPSEFIIKVQD
00000000000000000000000000001111000000000000000000000000000000000000000000000000000000000000000000
>DM_train2717
MRGSGMASSYSKWFNLEKIHSIEVQSLPEFFTNRIPSKTPEVYMRYRNFMVNSYRLNPNEYFSVTTARRNVSGDAAALFRLHKFLTKWGLINYQVDSK
11111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2718
MEIIPSESHPHIQLLKSNRELLVTHIRNTQCLVDNLLKNDYFSAEDAEIVCACPTQPDKVRKILDLVQSKGEEVSEFFLYLLQQLADAYVDLRPWLLE
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2719
MMSGAPSATQPATAETQHIADQVRSQLEEKYNKKFPVFKAVSFKSQVVAGTNYFIKVHVGDEDFVHLRVFQSLPHENKSLTLSNYQTNKAKHDELTYF
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2720
MSLKTTLPISLDWSTEEVIDVVHFFQAIEQAYDQGIAREDLLGKYRRFKEIVPSKSEEKQLFRAYEQENDVSCYQTIKKAREEMEEHIQMEGHHHHHH
11111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2721
ATYKVTLINEAEGLNKTIEVPDDQYILDAAEEAGIDLPYSCRAGACSTCAGKLISGTVDQSDQSFLDDDQIEAGYVLTCVAYPTSDCVIETHKEEELY
00000000011100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2722
LSIPEDYQARLQPNRVEGSYPLVRMEFTGATVDAPLMSQISRKYNIDVSILSSDLDYAGGVKFGMMVAELFGNEQDDSAAIEYLRENNVKVEVLGYVL
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2723
MSNLKWFSGGDDRRKKAEVIITELLDDLEIDLGNESLRKVLGSYLKKLKNEGTSVPLVLSRMNIEISNAIKKDGVSLNENQSKKLKELMSISNIRYGY
11111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2724
PLKPEEHEDILNKLLDPELAQSERTEALQQLRVNYGSFVSEYNDLTKSHEKLAAEKDDLIVSNSKLFRQIGLTEKQEEDHKKADISETITIEDLEAK
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2725

MKSGIYQIKNTLNNKVYVGSAKDFEKAWKRHFKDLEKGCHSSIKLQRSFNKHGNVFECSILEEIPYE
KDLIIERENFWIKELNSKINGYNIADATFG
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2726
GSHMEEIRNLTVKDFRVQELPLARIKKIMKLDEDVKMISAEAPVLFAKAAQIFITELTLRAWIHTEDN
KRRTLQRNDIAMAITKFDQFDFLIDIVPR
11111111111111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2727
MEPNTPTARTFDWMKVKRNPPKTAKVSEPGLGSPSGLRTNFTTRQLTELEKEFHFNKYLSRARRVE
IAATLELNETQVKIWFQNRRMKQKKREREGG
11111110000000001111111111111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2728
MDAKARNCLLQHREALEKDIKTSYIMDHMISDGFLTISEEEKVRNEPTQQQRAAMLIKMILKKDND
SYVSFYNALLHEGYKDLAALLHDGIPVVSSS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2729
RDSGTVWGALGHGINLNIPNFQMTDDIDEVRWERGSTLVAEFKRKPFLKSGAFEILANGDLKIKNLT
RDDSGTYNVTVYSTNGTRILDKALDLRILE
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2730
MDFSQLGGLLDGMKKEFSQLEEKNKDTIHTSKSGGGMVSVSFNGLGELVDLQIDDSLLEDKEAMQI
YLMSALNDGYKAVEENRKNLAFNMLGNFAKL
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2731
GMNHNYVEVKYPAIFRDEGTYWDVRFPDVPAAQTFGASVQVAADNAANALAIALFEQSLPPASDPQ
YWRLASTEFVVWITMADVQFGPGADTPEPMN
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2732
ADPALADVCRTKLPSQAQDTLALIAKNGPYPYNRDGVVFENRESRLPKKGNGYYHEFTVVTPGSND
RGTRRVVTGGYGEQYWSPDHYATFQEIDPRC
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2733
GMKRPGAIPTVQIDNERVKVTEWRFPPGGETGWHRHSMDYVVVPMTTGPLLLETPEGSVTSQLTR
GVSYTRPEGVEHNVINPSDTEFVFVEIEIKAA
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011

>DM_train2734
MGEWEIIDIGPFTQNLGKFAVDEENKIGQYGRLTFNKVIRPCMKKTIYENEGFREIKGYEYQLYVYAS
DKLFRADISEDYKTRGRKLLRFNGPVPPP
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2735
MAMIKMSPEEIRAKSQSYGQGSDQIRQILSDLTRAQGEIAANWEGQAFSRFEEQFQQLSPKVEKFAQ
LLEEIKQQLNSTADAVQEQDQQLSNNFGLQ
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2736
GPSRVVYLGSIPYDQTEEQILDLCSNVGPVINLKMMFDPQTGRSKGYAFIEFRDLESSASAVRNLNGY
QLGSRFLKCGYSSNSDISGVSQQQQQQYN
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2737
GKVVIYSEPDVSEKCIEVFSDIQDCSSWSLSPVILIKVVRGCWILYEQPNFEGHSIPLEEGELELSGLWG
IEDILERHEEAESDKPVVIGSIRHVV
00000000011100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2738
HETRFEAAVKVIQSLPKNGSFQPTNEMMLKFYSFYKQATEGPCKLSRPGFWDPIGRYKWDAWSSLG
DMTKEEAMIAYVEEMKKIIETMPMTEKVEE
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2739
SETRKTEVPSDKLELLLDIPLKVTVELGRTRMTLKRVLEMIHGSIIELDKLTGEPVDILVNGKLIARGE
VVVIDENFGVRITEIVSPKERLELLNE
11111111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2740
GPMATESPNSVQKIVVHLRATGGAPILKQSKFKVSGSDKFANVIDFLRRQLHSDSLFVYVNSAFSPNP
DESVIDLYNNFGFDGKLVVNYACSMAWG
11111111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2741
GHMSLEEWIKADSLEKADEYHKRYNYAVTNPVRRKILRMLDKGRSEEEIMQTLSLSKKQLDYHLKV
LEAGFCIERVGERWVVTDAGKIVDKIRGGS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2742
EVNEKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLPMTRSQNNFVAILDLPEGEHQYKFFVDGQ
WTHDPSEPIVTSQLGTVNNIIQVKKTDFEVF
11111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000001111111
>DM_train2743
MGTEPPENCQDDFNFNYVSDQEIEVYHVDKGWSAGWNYVCLNDYCLPGNKSNGAFRKTFNAVLGQ
DYKLTFKVEDRYGQGQQILDRNITFTTQVCN
111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001
>DM_train2744
GSHMSTLKEVQDNITLHEQRLVTTRQKLKDAERAVELDPDDVNKSTLQSRRAAVSALETKLGELKR
ELADLIAAQKLASKPVDPTGIEPDDHLKEK
111110000000000000000000000000000000000000000000000000000000000000000
000001111111111111111111111
>DM_train2745
MDVLQEQVFKDLKSRGFKIIEQLDDKIFIAEKKERYLFYVMVEGVEVTIQTLLSVINMGETLSMPVVL
ALVSNDGTVTYYYVRKIRLPRNIYAEAV
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111
>DM_train2746
GSHMLEQKKANIYKGKITRIEPSLEAAFVDYGAERHGFLPLKEIAREYFPANYSAHGRPNIKDVLREG
QEVIVQIDKEERGNKGAALTTFISLAGS
111111111000000000000000000000000000000000000000011111100000000000000
000000000000000000000000
>DM_train2747
AMSDLELRQCLPCGPGGAGRCFGPSICCGDELGCFVGTAEALRCQEENYLPSPCQSGQKPCGSGGRCA
AAGICCNDESCVTEPECREGVGFPRRV
111111000000000000000000000000000000000000000000000000000000000000000
000000000000001111111111
>DM_train2748
VPDPRGIIINLDEGELCLNSAQCKSNCCQHDTILSLLRCALKARENSECSAFTLYGVYYKCPCERGLTC
EGDKSLVGSITNTNFGICHNVGRSDS
111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000011111
>DM_train2749
MGSDKIHHHHHHMDLELKELQSKMKEMYFEKDSQRGIYATFTWLVEEVGELAEALLSNNLDSIQEE
LADVIAWTVSIANLEGIDIEEALKKKYKL
111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>DM_train2750
MAYGKAHLEAQLKRALAEEIQALEDPRLFLLTVEAVRLSKDGSVLSVYVEAFREEEGALRALSRAER
RLVAALARRVRMRRLPRLEFLPWRASPA
110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111
>DM_train2751
AKKKSKLEIIQAILEACKSGSPKTRIMYGANLSYALTGRYIKMLMDLEIIRQEGKQYMLTKKGEELLEDI
RKFNEMRKNMDQLKEKINSVLSIRQ

11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2752
MEDERIKLLFKEKALEILMTIYYESLGGNDVYIQYIASKVNSPHSYVWLIIKKFEEAKMVECELEGRTKIIRLTDKGQKIAQQIKSIIDIMENDT
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2753
KQKVINVKEVRLSPTIEEHDFNTKLRNARKFLEKGDKVKATIRFKGRAITHKEIGQRVLDRLSEACADIAVVETAPKMDGRNMFLVLAPKNDNK
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2754
KPAKPAAKSIVTLDVKPWDDETNLEEMVANVKAIEMEGLTWGAHQFIPIGFGIKKLQINCVVEDDKVSLDDLQQSIEEDEDHVQSTDIAAMQKL
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2755
GHMSRTVMCRKYHEELPGLDRPPYPGAKGEDIYNNVSRKAWDEWQKHQTMLINERRLNMMNAEDRKFLQQEMDKFLSGEDYAKADGYVPPSAGS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2756
GSRSLQLDKLVNEMTQHYENSVPEDLTVHVGDIVAAPLPTNGSWYRARVLGTLENGNLDLYFVDFGDNGDCPLKDLRALRSDFLSLPFQAIECS
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2757
EDDEDYGDLGGCPFLVAENKTGYPTIVACKQDCNGTTETAPNGTRCFSIGDEGLRRMTANLPYDCPLGQCSNGDCIPKETYEVCYRRNWRDKKN
11111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2758
GASIVGSWVEPVPGLEGQVQGIKMEEGGVASSVNMATLVYESWKQEGTKLILTGKSIGNGQTIEFVDTMDIKRLTADSLVLDNQGMEIRYAKQK
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2759
MRKVRPEELPALLEEGVLVVDVRPADRRSTPLPFAAEWVPLEKIQKGEHGLPRRPLLLVCEKGLLSQVAALYLEAEGYEAMSLEGGLQALTQGK
00000000000000000000000000011100000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2760
EDMEIAYPITCGESKAILLWKKFVCPGINVKCVKFNDQLISPKHFVHLAGKSTLKDWKRAIRLGGIML

RKMMDSGQIDFYQHDKVCSNTCRSTK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111
>DM_train2761
QQRKVLTLEKGDNQTFGFEIQTYGLHHREEQRVEMVTFVARVHESSPAQLAGLTPGDTIASVNGLNV
EGIRHREIVDIIKASGNVLRLETLYGT
00000000000000000000000001111110000000000000000000000000000000000000000
00000000000000000000000
>DM_train2762
GGAHKVRAGGPGLERAEAGVPAEFSIWTREAGAGGLAIAVEGPSKAEISFEDRKDGSCGVAYVVQEP
GDYEVSVKFNEEHIPDSPFVVPVASPS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001
>DM_train2763
MIKVTVTNSFFEVTGHAPDKTLCASVSLLTQHVANFLKAEKKAKIKKESGYLKVKFEELENCEVKVL
AAMVRSLKELEQKFPSQIRVEVIDNGS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111
>DM_train2764
GVDRDYLQSEYGVLKAGQCYKVVRSFRDYRNINYERGDVMRFLGSNFVPYESGLSLFFDKNGSERQI
MLCVRPEFQMEIAHHLDSYFCKLDDN
11100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000111
>DM_train2765
MQQSLAVKTFEDLFAELGDRARTRPADSTTVAALDGGVHALGKKLLEEAGEVWLAAEHESNDALA
EEISQLLYWTQVLMISRGLSLDDVYRKL
11111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>DM_train2766
MASTRGSGRPWSAKENKAFERALAVYDKDTPDRWANVARAVEGRTPEEVKKHYEILVEDIKYIESG
KVPFPNYRTTGGNMKTDEKRFRNLKIR
11111110000000000000000000000000000000000000000000000000000000000000001
1111111111111111111111
>DM_train2767
GSRMSAEASARPLRVGSRVEVIGKGHRGTVAYVGATLFATGKWVGVILDEAKGKNDGTVQGRKYFTC
DEGHGIFVRQSQIQVFEDGADTTSPE
11111111111100000000000000000000000000000000000000000000000000000000000
0000000000001111111111
>DM_train2768
GSHMNTEVSSEIYQWVRDELKRAGISQAVFARVAFNRTQGLLSEILRKEEDPKTASQSLLVNLRAMQ
NFLQLPEAERDRIYQDERERSLRKRK
11111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000111
>DM_train2769

AEKCFDHAAGTSYVVGETWEKPYQGWMMVDCTCLGEGSGRITCTSRNRCNDQDTRTSYRIGDTWS
KKDNRGNLLQCICTGNGRGEWKCERHTS
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2770
APDTQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLRSKKTMLVQKNVTSESTCCVAKSYNR
VTVMGGFKVENHTACHCSTCYYHKS
111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2771
ISEFGSEPIDPSKLEFARALYDFVPENPEMEVALKKGDLMAILSKKDPLGRDSDWWKVRTKNGNIGY
IPYNYIEIIKRRKKIEHVDDETRTH
111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2772
WKDKEFQVLFVLTILTLISGTIFYSTVEGLRPIDALYFSVVTLTTVGDGNFSPQTDFGKIFTILYIFIGIGL
VFGFIHKLAVNVQLPSILSN
111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2773
MSTISRDSCPALRAGVRLQHDRARDQWVLLAPERVVELDDIALVVAQRYDGTQSLAQIAQTLAAEFD
ADASEIETDVIELTTTLHQKRLLRL
110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2774
KNTGDEVVAIISQNGKVIREIPLTGHKGNEQFTIKGKGAQYNLMEVDGERIRIKEDNSPDQVGVKMG
WKSKAGDTIVCLPHKVFVEIKSTQK
111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2775
MPLVGFMKEKKRATFYLYKNIDGRKLRYLLHKLENVENVDIDTLRRAIEAEKKYKRSITLTEEEEVII
QRLGKSANLLLNCELVKLDEGERA
111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111
>DM_train2776
SNAMVKETKLYDLLGVSPSANEQELKKGYRKAALKYHPDKPTGDTEKFKEISEAFEILNDPQKREIY
DQYGLEAARSGGPSFGPGGPGGAGG
111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111111
>DM_train2777
MSKMLYRVELIITNKEGVRDPEGETIQRYVVSRFSDKIIETRAGKYLVFRVNSSSQQEATELVKKLADE
MRLYNPIVHKIEIRANRIEDSSN
111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111

>DM_train2778
SASDFEERVVTIPLRDARAEPNHKRADKAMILIREHLAKHFSVDEDAVRLDPSINEAAWARGRANT
PSKIRVRAARFEEEGEAIVEAETAE
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000111
>DM_train2779
MAKNTSCGVQLRIRGKVQGVGFRPFVWQLAQQLNLHGDVCNDGDGVEVRLREDPETFLVQLYQHC
PPLARIDSVEREPFIWSQLPTEFTIR
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>DM_train2780
GSHMDINNKARIHWACRRGMRELDISIMPFFEHEYDSLSDDEKRIFIRLLECDDPDLFNWLMNHGK
PADAELEMMVRLIQTRNRERGPVAI
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train2781
AHHHHHHENLYFQAGSTTLKLLRKEIDKIDNQIISLLKKRLEIAQAIGKIKKELNLPIEDRKREEEVLR
RAGEFREIFEKILEVSKDVQRL
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000001
>DM_train2782
SNAMKAIITVVGKDKSGIVAGVSGKIAELGLNIDDISQTVLDEYFTMMAVVSSDEKQDFTYLRNEFEA
FGQTLNVKINIQSAAIFEAMYNI
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111
>DM_train2783
LNSAPTPRDVVANAPAPVQAAVAGAQEYAAQAGLNTEELAVDALYNAIKVRLAGTGLGIPPQIEAFYQ
ANRTNFNGFYMANRGAIDFIFSM
00000000000000000000000000000000000000000000000000000011100000000000000
00000000000000000001
>DM_train2784
MEIMDEIKVNLQKEVSLEEAERYAKNIASKYGDGILLSVHDSKTGYRAPEVYCCGEKPWEVYACNRG
ANLKISVNQFEFYFRIEVEGQAKY
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111
>DM_train2785
MNKKELIDRVAKKAGAKKKDVKLILDTILETITEALAKGEKVQIVGFGSFEVRKAAARKGVNPQTRK
PITIPERKVPKFKPGKALKEKVK
00000000000000000000000000000000000000000000000000001111111111111111111
1111000000000000000
>DM_train2786
MAVTYEKTFEIEIINELSASVYNRVLNYVLNHELNKNDSQLLEVNLLNQLKLAKRVNLFDYSLEELQA
VHEYWRSMNRYSKQVLNKEKVA
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000001111
>DM_train2787
MQKEQLSALMDGETLDSELLNELAHNPEMQKTWESYHLIRDSMRGDTPEVLHFDISSRVMAAIEE
EPVRQPATLIPEAQPAPHQWQKMPF
00000000000000000000000000000000000000000000000000000000000001111111
1111111111111111111
>DM_train2788
VELLQVDADLQAEIVGKYNADLQKAVQIEEKKASEIATEAVKEHVTAEYEERYAEHEEHDRIMRDVA
EILEQMEHAEVRRLITEDKVRPD
11110000000000000000000000000000000000000000000000000000000000000000
0000000000011111111
>DM_train2789
DVITVYKDCNYTGFSGGLTIGDYNLARLNSLGVLNDDISSLRITQGYQAILYQDDNFGGASTVINSDNS
CLNTTWNDKVSSIRVIANGTT
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000001111
>DM_train2790
MGKRLYAVAYDIPDDTRRVKLANLLKSYGERVQLSVFECYLDERLLEDLRRRARRLLDLGQDALRIYP
VAGQVEVLGVGPLPELREVQVL
10000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111
>DM_train2791
QFSDMRISINQTPGKSLDFGFTIKWDIPGIFVASVEAGSPAEFSQLQVDDEIIAINNTKFSYNDSKEWE
EAMAKAQETGHLVMDVRRYGK
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001
>DM_train2792
SNAEEKVVAEQQADGTWLMDGWISIRKASNLLEHDLVDEAERYSTLGGYLLWQFGYIPAAGEQITV
DGLIFEIVSVNKHNIGKVRVHRTQ
11110000000000000000000000000000000110000000000000000000000000000000
0000000000000000001
>DM_train2793
DEVENLYTQVADNEYLVQGRMLIDEFNEVFETDLHMSDVDTMAGYLITALGTIPDEGEKPSFEVGNI
KLTAEEMEGTRLLVLRVHFYDEE
11110000000000000000000000000000000000000000000000000000000000000000
0000000000000000011
>DM_train2794
MNLEMLESQPVPEIDTLREEIDRLDAEILALVKRRAEVSKAIGKARMASGGTRLVHSREMKVIERYSE
LGPDGKDLAILLLRLGRGRLGH
11111111111100000000000000000000000000000000000000000000000000000000
0000000000000000001
>DM_train2795
AELKEFLNKPAATSDVPPAPAGFDFDAAKKLVDVRCNKCHTLDSVADLFRTKYKKTGQVNLIVKRM
QGFPGSGISDDDAKTIGIWLHEKF

11111111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2796
VKVKVKYFARFRQLAGVDEEEIELPEGARVRDLIEEIKKRHEKFKEEVFGEGYDEDADVNIAVNGRY
VSWDEELKDGDVVGVFPPVSGG
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2797
GPLGSQVRVKAYYRGDIMITHFEPSISFEGLCNEVRDMCSFDNEQLFTMKWIDEEGDPCTVSSQLEL
EEAFRLYELNKDSELLIHVFPC
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2799
GSAQLLKSVFVKNVGWATQLTSGAVWVQFNDGSQLVMQAGVSSISYTSPDGQTTRYGENEKLPEYIK
QKLQLLSSILLMFSNPTPVFQ
11111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2801
MSDAFTDVAKMKKIKEEIKAHEGQVVEMTLENGRKRQKNRLGKLIEVYPSLFIVEFGDVEGDKQVN
VYVESFTYSDILTEKNLIHYLD
00000000000000000000000000000000001111110000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2802
GAMVLSQRQRDELNRAIADYLRSNGYEEAYSVFKKEAELDMNEELDKKYAGLLEKKWTSVIRLQKK
VMELESKLNEAKEEFTSGGPLG
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111111111111
>DM_train2803
LSSNSSMNPKSLTDPKLLKNIPMWLKSLRLHKYSDALSGTPWIELIYLDDETLEKKGVLALGARRKL
LKAFGIVIDYKERDLIDRSAY
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2804
NPWWAAFSRVCKDMNLTLEPEIMPAAGDNRYIRAVGVPALGFSPMNRTPVLLHDHDERLHEAVFL
RGVDIYTRLLPALASVPALPSDS
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2806
MPICKEEKQKVIQEFARFPGDTGSTEVQVALLTLRINRLSEHLKVHKKDHHSHRGLLMMVGQRRRL
LRYLQREDPERYRALIEKLGI
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2807
QLTQKNKSADGLVFNVVTQDMINKSTKPYRGHRFTKENVRILESWFAKNIENPYLDTKGLENLMKN

TSLSRIQIKNWVSNRRRKEKT
11111111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2808
GTGAESTAERSARFERDALEFLDQMYSAALRMTRNPADAEDLVQETYAKAYASFHQFREGTNLKAW
LYRILTNTFINSYRKKQREPQ
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111111
>DM_train2809
VKSKAKKTVDKHSDEYKIRRERNNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSREL
STLRNLFKQLPEPLLASSGHC
11111111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111111111111
>DM_train2810
MPYTVRFTTTARRDLHKLPPRILAAVVEFAFGDLSREPLRVGKPLRRELAGTFSARRGTYRLLYRIDD
EHTTVVILRVDHRADIYRR
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2811
GAMEPQVTLNVTFKNEIQSFLVSDPENTTWADIEAMVKVSFDLNTIQIKYLDEENEEVSINSQGEYE
EALKMAVKQGNQLQMQVHEG
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2812
SNAMKVTDVRLRKIQTDGRMKALVSITLDEAFVIHDLRVIEGNSGLFVAMPSKRTPDGEFRDIAHPI
NSDMRQEIQDAVMKVYDETD
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2813
MSLDCRERIEKDLELLEKNLMEMKSIKLSDDEEAVVERALNYRDDSVYYLEKGDHITSFGCITYAHG
LLDSLRMLHRIIEGHHHHHH
11110000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111111
>DM_train2814
AADAPAQLDPAGEKLYRSACVVCHASGVANAPKLGDKQAWAPFLAQGADALLATVLKGKGAMPPRG
GTAADEATLRAAVAYMMDAAR
11111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2815
ADGKAIFQQKGCGSCHQANVDTVGPSLKKIAQAYAGKEDQLIKFLKGEAPAIVDPAKEAIMKPQLTML
KGLSDAELKALADFILSHK
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2817

ASCFALISGTANQVKCYRFRVKKNHRHRYENCTTTWFTVADNGAERQGQAQILITFGSPSQRQDFLK
HVPLPPGMNISGFTASLDF
00000000000000000000000000000000000011111111111000000000000000000000
000000000000000
>DM_train2818
MSRVQMDTEEVREFVGHLERFKELLREEVNSLSNHFHNLESWRDARRDKFSEVLDNLKSTFNEFD
EAAQEQIAWLKERIRVLEEDY
11110000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train2819
MVRVPLTAEELERGQRLGELLRSARGDMSMVTVAFDAGISVETLRKIETGRIATPAFFTIAAVARVLD
LSLDDVAAVVTFGPVSTS
11110000000000000000000000000000000000000000000000000000000000000000
000000000000011
>DM_train2820
SNAMRRNEDSWLIDGATPLEDVMRALNIHTFPRDENYETIGGFMMYMLRKIPKKTDFVLYDKYKF
EIIDTENFRIDQLMVSFRKDV
11111111000000000000000000000000000000000000000000000000000000000000
000000000000001
>DM_train2821
MVRVDQNLFNEVMYLLDELSQDITVPKNVRKVAQDSKAKLSQENESLDLRCATVLSMLDEMANDP
NVPAHGRTDLYTIISKLEALS
10000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>DM_train2822
GAGQSSPATGSQNQSGNTGSIINNYYMQQYQNSMDTQLGNDAISGGSNEGSTDTTSTHTTNTQNND
WFSKLASSAFSGLFGALLA
11111111111111000000000000000000000001111111111111111111111110000000
00000000000000
>DM_train2823
PQYQTWEEFSRAAEKLYLADPMKARVVLKYRHSDGNLCVKVTDDLVCLVYKTDQAQDVKKIEKFHS
QLMRLMVAKEARNVTMETE
11100000000000000000000000000000000000000000000000000000000000000000
00011111111111
>DM_train2824
AEDIQAKIKNYQTAPFDSRFPNQNQTRNCWQNYLDFHRCEKAMTAKGGDVSVCEWYRRVYKSLCPI
SWVSTWDDRRAEGTFPGKI
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train2825
SGGSGAGGGELFATHCAGCHPQGGNTVHPEKTLARARREANGIRTVRDVAAYIRNPGPGMPAFGEA
MIPPADALKIGEYVVASFP
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000

>DM_train2826
VKTPGTRYVTHKQLDEKLKNFVTKTEFKEFQTVVMESFAVQNQNIDAQGEQIKELQVEQKAQGKTL
QLILEALQGINKRLDNLES
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000
>DM_train2827
ASAAKGDHGGTGARTWRFLTFGLALPSVALCTLNSWLHSGHRERPAFIPYHHLRIRTKPFSWGDGN
HTFFHNPRVNPLPTGYEKP
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001
>DM_train2828
MGKLPESPKRAEEIWQQSVIGDYLARFKNDRVKALKAMEMTWNNMEKKEKLMWIKKAAEDQKR
YERELSEMRAPPAATNSSKKLE
11100000000000000000000000000000000000000000000000000000000000000011
11111111111111
>DM_train2829
GSHMSTGDFLTKGIELVQKAIDLDTATQYEEAYTAYYNGLDYLMLALKYEKNPKSKDLIRAKFTEYLN
RAEQLKKHLESEEANAA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000011
>DM_train2830
ALLITKKCINCDMCEPECPNEAISMGDHIYEINSDKCTECVGHYETPTCQKVCPIPNTIVKDPAHVET
EEQLWDKFVLMHHADKI
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111
>DM_train2831
IRVNVLYSTPACYLWELNKANLSWSVKKDDFFPYADGPYMFWTGYFSSRPALKRYERLSYNFLQVC
NQLEALAGPAANVGPYGS
00000000000000000000000000000000000000000000000000000000000000000000
0000111111111
>DM_train2832
MTNLSDIIEKETGKQLVIQESILMLPEEVEEVIGNKPESDILVHTAYDESTDENVMLLTSDAPEYKPW
ALVIQDSNGENKIKML
11111111111110000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train2833
KPEFDPILLRPVDDLELTVRSANCLKAEAIHYIGDLVQRTEVELLKTPNLGKKSLTEIKDVLASRGLSL
GMRLENWPPASIADE
11110000000000000000000000000000000000000000000000000000000000000001
1111111111111
>DM_train2834
SWDVIKHPHVTEKAMNDMDFQNKLQFAVDDRASKGEVADAVEEQYDVTVEQVNTQNTMDGEKK
AVVRLSEDDDAQEVASRIGVF
00000000000000000000000000000000000000000000000000000000000000000000

0000000111111
>DM_train2835
CEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKM
ALDIEIATYRKLLEGEESRI
11111111100000000000000000000000000000000000000000000000000000000000
0000000011111
>DM_train2837
MTKTLRTPEHVYLCQRLRQARLDAGLTQADLAERLDKPQSFVAKVETRERRLDVIEFAKWMAACE
GLDVVSEIVATIAEGRAQA
11111000000000000000000000000000000000000000000000000000000000000000
0000000000011
>DM_train2838
MYKVKVYVSLKESVLDPQGSAVQHALHSMTYNEVQDVRIGKYMELTIEKSDRDLDVLVKEMCEKLL
ANTVIEDYRYEVEEVVAQ
00000000000000000000000000000000000000000000000000000000000000000000
0000000001111
>DM_train2839
MSAFPVHAAFEKDFLVQLVVVDLNDSMDQVAEKVAYHCVNRRVAPREGVMRVRKHRSTELFPRDM
TIAESGLNPTEVIDVVFEE
10000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>DM_train2841
MSYEKEFLKDFEDWVKTQIQVNQLAMATSQEVAQEDGDERAKDAFIRYESKLDAYEFLLGKFDNYK
NGKAFHDIPDELFGARHY
00000000000000000000000000000001111000000000000000000000000000000000
0000001111111
>DM_train2842
MKLIWSEESWDDYLYWQETDKRIVKKINELIKDTRRTPFEGKGKPEPLKHNLSGFWSRRITEEHRL
VYAVTDDSLLIAACRYHY
00000000000000000000000000000000000000000000000000000000000000000000
0000000000001
>DM_train2843
GAMATDWLGSIVSINCGDSLGVYQGRVSAVDQVSQTISLTRPFHNGVKCLVPEVTFRAGDITELKILEI
PGPGDNQHFGDLHQT
11110000000000000000000000000000000000000000000000000000000000000000
0000011111111
>DM_train2844
MRGSHHHHHHGSDETGKELVLALYDYQEKSPREVTMKKGDILTLLNSTNKDWWKVEVNDRQGFV
PAAYVKKLAAAWSHPQFEK
11111111111111110000000000000000000000000000000000000000000000000000
000000000000
>DM_train2846
MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSDGQEARPEEIGWLNGYNETTGERG
DFPGTYVEYIGRKKIS

100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2847
PLTASMLASAPPQEQKQMLGERLFPLIQAMHPTLAGKITGMLLEIDNSELLHMLESPESLRSKVDEAVAVLQAHQAKEAAQKA
111111111000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2848
PESSENKNLGGVTQESFDLMIKENPSSQYWKEVAEKRRKALYEALKENEKLHKEIEQKDNEIARLKKENKELAEVAEHVQYMA
111111111111111111111000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2849
SCELYHYQECVRGTTVILKEPCPSGTYEGNSPFHPLADNKFALTCTSTHFAFACADGTRHTYQLRARSVSPKLFIRQEEVQQE
100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111111111111
>DM_train2850
MGSDKIHHHHHHHMKMRSQLLIVLQEHLRNSGLTQFKAAELLGVTQPRVSDLMRGKIDLFSLESLIDMITSIGLKVEINIKDAA
111110000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2851
MGSLPCDICKDVVTAAGDMLKDNATEEEILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDIIKGEMSRPGEVCSALNLCES
100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2852
SNAIRSIWENNGFGLMSSKTMTDFDYWISDFEKIGASQKEAEQLIVKAIEIAIDANARNYNYINAILKDWEQRGFKSVEEREA
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2853
MQRFNPLSKLKRALMDAFVKIDSASHMIVLKTMPGNAQAIGALMDNLDWDEMMGTICGDDTILIICRTPEDTEGVKNRLLELL
111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2854
DSTTKELIKKLAEINKCENEISAKYCDHMIHEEIPLKTCTKEKTRNLCCAVSDYCMSYFTYDSEEYYDCTKREFDDPSYTCFR
100000000000000000000000000000011100000000000000000000000000000000000000000000000000
>DM_train2855
MASAIVLINTDAGGEDEVFERLKSMSEVTEVHVVYGVYDIVVKVEADSMDKLKDFVTNTIRKLPKVR

STLTMIIVEGKSLVKK
1000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2857
QSRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKSAVLRKAIDYIRFLQHSNQKLKQENLSLRTAVHKSKSLKDL
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111111
>DM_train2858
GRTNLIVNYLPQNMTQDELRSLFSSIGEVESAKLIRDKVAGHSLGYGFVNYVTAKDAERAINTLNGLRLQSKTIKVSYARPS
0000000000000000000000000000000000001111110000000000000000000000000000000000000001
>DM_train2859
KTPLVNESLKKFLNTKDGRLVASLVAEFLQFFNLDFTLAVFQPETSTLQGLEGRENLARDLGIIEAEGTVGGPLLLEVIRRW
1111000000000000000000000000000000000000000001110000000000000000000000000000000000
>DM_train2860
SSSGKPGPTVIKVQNMPFTVSIDEILDFFYGYQVIPGSVCLKYNEKGMPTGEAMVAFESRDEATAAVIDLNDRPIGSRKVKL
1111111100000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2861
STSLPTSNEYQNEKLANELKSLLDELNVNELATGSLNTYYKRTIKISGQKAMYALKSKDFKKMSEAKYQLQKIYNEIDEALK
1111111100000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2862
KGMTPPKTVNFKMKGVADAAFSHEFHLGMYKCNECHTKLFAYKAGAKRFTMADMDKGKSCGACHNGKDAFSSASDCGKCHPG
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2863
GPLGSPEFGYWITCCPTCDVDINTWVPFYSTELNKPAMIYCSHGDGHWVHAQCMDLEERTLIHLSEGSNKYYCNEHVQIARA
1111111100000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2864
MFPAQEEADRTVFVGNLEARVREEILYELFLQAGPLTKVTICKDREGKPKSFGFVCFKHPESVSYAIALLNGIRLYGRPINV
1111000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>DM_train2865

REVKEVDLRGLTVAEALLEVDQALEEARALGLSTLRLLHGKGTGALRQAIREALRRDKRVESFADAP
PGEGGHGVTVVALRP
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>DM_train2866
TGTSEMAPALVAAFGGKENITNLDACITRLRVSVADVSKVDQAGLKKLGAAGVVVAGSGVQAIFGTKS
DNLKTEMDEYIRNH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000001
>DM_train2867
ELITVHIVKGPMGFGFTIADSPGGGGQRVKQIVDSPRSRGLKEGDLIVEVNKKNVQALTHNQVVDML
VESPKGSEVTLLVQR
00000000000000000000000000000011000000000000000000000000000000000000000
00000000000
>DM_train2869
GSHMLSIYQDQEQRILKFLEELGEGKATTAHDLSGKLGTPKKEINRVLYSLAKKGKLQKEAGTPPLW
KIAVSTQAWNQHSG
11111110000000000000000000000000000000000000000000000000000000000000001
1111111111
>DM_train2870
MNREGAPGKSPEEMYIQQKVRVLLMLRKMGSNLTASEEEFLRTYAGVVNSQLSQLPPHSIDQGAED
VVMAFSRSETEDRRQ
11111111000000000000000000000000000000000000000000001111100000000000000
0000000111
>DM_train2871
GRQFGHLTRVRHVITYSLSPFEQRAFPHYFSKGIPNVLRRTRACILRVAPPFVAFYLVYTWGTQEFEKS
KRKNPAAYENDR
00000000000000000000000000000000000000000000000000000000000000000000000
0000111111
>DM_train2872
PSKTSNTIRVFLPNKQRTVVNVRNGMSLHDCLMKALKVRGLQPECCAVFRLLHEHKGKKARLDWN
TDAASLIGEELQVDFL
11111000000000000000000000000000000000000000000000000000000000000000000
0000000000
>DM_train2873
MRITIYTRNDCVQCHATKRAMENRGFDFEMINVDRVPEAAEALRAQGFRQLPVVIAGDLSWSGFRP
DMINRLHPAPHAASA
00000000000000000000000000000000000000000000000000000000000000000000000
0000011111
>DM_train2874
TTPIVHLKGDANTLKCLRYRFKKHCTLYTAVSSTWHWTGHNVKHKSAIVTLTYDSEWQRDQFLSQV
KIPKTITVSTGFMSI
00000000000000000000000000000000000000111111110000000000000000000000000
0000000000

>DM_train2875
MDAIKKKMQMLKLDKENALDRAEQAEADKKAAEERSKQLEDELVALQKKLKGTEDELDKYSESLK
DAQEKLELADKKATDC
00000000000000000000000000000000000000000000000000000000000000000000
0000001111
>DM_train2876
GAMAEAEAEVTLRELQEALEEEVLTRQSLSREMEAIRTDNQNFASQLREAEARNRDLEAHVRQLQE
RMELLQAEGATAVTG
11111111000000000000000000000000000000000000000000000000000000000000
1111111111
>DM_train2877
MEKTRVNGTDRPPISSWSVDDVSNFIRELPGCQDYVDDFIQQEIDGQALLLLKEKHLVNAMGMKLG
PARKIVAKVESIKEV
11111111111000000000000000000000000000000000000000000000000000000000
0000000111
>DM_train2878
GSMDYKDDDDKKTNWLKRIYRVRPCVKCKVAPRDWKVKNKHLRIYNMCKTCFNNSIDIGDDTYH
GHVDWLMYADSKEISNT
11111100000000000000000000000000000000000000000000000000000000000000
0000111111
>DM_train2879
SRSTHNEMEKNRRAHLRLSLEKLKGLVPLGPDSSRHTTLSLLTKAKLHIKKLEDSDRKAVHQIDQLQ
REQRHLKRQLEKL
00000000000000000000000000000000000000000000000000000000000000000000
000000111
>DM_train2880
DSQWGSGKNLYDKVCGHCHKPEVGVGPVLEGRGLPEAYIKDIVRNGFRAMPAFPASYVDDESLTQVA
EYLSSLPAPAAQP
00000000000000000000000000000000000000000000000000000000000000000000
000111111
>DM_train2881
GSYHADPSLVSFLTGLGCPNCIEYFTSQGLQSIYHLQNLTIEDLGALKIPEQYRMTIWRGLQDLKQGH
DYSTAQQLLRSS
11111110000000000000000000000000000000000000000000000000000001111111
111111111
>DM_train2882
KERPEISLPSDFEHTIHVGFDAVTGEFTGMPEQWARLLQTSNITKSEQKKNPQAVLDVLEFYNSKKT
SNSQKYMSFTDKS
11111111000000000000000000000000000000000000000000000000000000000000
000000000
>DM_train2883
MCLSIPSQVVAVDNERQSVTVDTLGVRRDVSSHLMTEPLAIGDYVLIHIGFVMNKIDRNDALQSLELY
QEIVSKLENETT
00000000000000000000000000000000000000000000000000000000000000000000

000001111
>DM_train2884
AIDTYEFASDAERERFRNLTQELRCPKCQNQDIADSNAPIAADLRKQIYGQLQQGKSDGEIVDYMVAR
YGDFVRYKPPVN
000000000000000000000000000000000000000000000000000000000000000000000000
000000011
>DM_train2885
AVYGIDAMNPSSRDDFTEFGKLLKDKITQYEKSLYYASFLEVLVRDVCISLEIDDLKKITNSLTVLCSEK
QKQEKQSKAK
111000000000000000000000000000000000000000000000000000000000000000000000
011111111
>DM_train2886
MEPVSKWSPSQVVDWMKGLDDCLQQYIKNFEREKISGDQLLRITHQELEDLGVSRIGHQELILEAVD
LLCALNYGLETEN
100000000000000000000000000000000000000000000000000000000000000000000000
000001111
>DM_train2887
RPAIRKRLLKPKVLDSSPRALVGHRAEVLEDVGATSGQVRLDGSIWSARSMDPTHTFAEGEIVSVIDI
QGTTAIVWKEA
111111111111111000000000000000000000000000000000000000000000000000000000
00000000
>DM_train2888
PTVVDQIRLWQLELDRVITYEGSLYSDFETSQEYNLLSKYAQDIGVLLWKDDKKKKFFISKEGNSQVL
DFAKRKLKKKQ
111111111110000000000000000000000000000000000000000000000000000000000000
00011111
>DM_train2889
MITIDALGQVCPIPVIRAKKALAELGEAGGVVTVLVDNDISRQNLQKMAEGMGYQSEYLEKDNGVIE
VTIVAGEGCAVE
000000000000000000000000000000000000000000000000000000000000000000000000
00011111
>DM_train2890
TDFLAGIRIVGEDKNGMTNQITGVISKFDTNIRTIVLNAKDGIFTCNLMIFVKNTDKLTTLMDKLRKV
QGVFTVERLSN
000000000000000000000000000000000000000000000000000000000000000000000000
00000011
>DM_train2891
IPLEQGIEFLSVNVEEDSPVVGKKLKDLPLPRDSIIAAIVRGGVLVVPRGDTEILSGDKLYVIVSAEAKE
TVEETLLGR
000000000000000000000000000000000000000000000000000000000000000000000000
00000011
>DM_train2892
MKIPIEELEDRVFVNCNTSITWVEGTVGTLLSDITRLDLGKRILDPRGIYRCNGTDIYKDKESTVQVH
YRMCQSCVELD

10000000000000000000000000000000000000000000000000011111111000000000001111111
>DM_train2893
MLQCYNCPNPTADCKTAVNCSSDFDACLITKAGLQVYNKCWKFEHCNFNDVTTRLRENELTYYCCKKDLCNFNEQLENG
00000000000000000000000000000000000000000000000000000000000000000000000000000001
>DM_train2894
KVTLVKSRKNEEYGLRLASHIFVKEISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLKMVVQRDE
00000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2895
MNAIDIAINKLGSVSALAASLGVRQSAISNWRARGRVPAERCIDIERVTNGAVICRELRPDVFGASPAGHRPEASNAAA
00000000000000000000000000000000000000000000000000000000000000000111111111111111
>DM_train2896
MTVATDNNPTPEAVADLKKKVRKLNSKAGQMKMDLHDLAEGLPTDYENLVETAEKTYEIFRELDQLKKKLNIWEETLK
11111111111111000000000000000000000000000000000000000000000000000000000000000111
>DM_train2897
MHEQLSPRDQELEARLVELETRLSFQEQALTELSEALADARLTGARNAELIRHLLEDLGKVRSTLFADAADEPPPPHY
11111110000000000000000000000000000000000000000000000000000000011111111111111111
>DM_train2898
MEEAKQKVVDFLNSKSGSKSKFYFNDFTDLFPDMKQREVKKILTALVNDEVLEYWSSGSTTMYGLKGAGKQAAAEHED
00000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2899
GHMLIPHDLLEADTLNNLLEDFVTREGTDNGDETPLDVRVERARHALRRGEAVILFDPESQQCQLMLRSEVPAELLRD
00000000000000000000000011111110000000000000000000000000000000000000000000000000
>DM_train2900
GSMWIQVRTMDGRQTHTVDSLSRLTKVEELRRKIQELFHVEPGLQRLFYRGKQMEDGHTLFDYEVRLNDTIQLLVRQS
00000000000000000000000000000000000000000000000000000000000000000000000000000111
>DM_train2901
MKTDGEFVSEHLMELITQQNLTINRVATLAGLNQSTVNAMFEGRSKRPTITTIRKVCGTLGISVHDFF

DFPPYNEVEK
0000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2902
MLMVVPLSEMGPGDKGIVVNILGGHNARQKLVSMGLTPGATIQVLESHPMGPIIISVGGVRFAIGKGLAGRVMVRKL
1000000000000000000001110000000000000000000000000000000000000000000000000000000000
>DM_train2903
MKYCKFCCKAVTGVKLIHVPKCAIKRKLWEQSLGCSLGENSQICDTHFNDSQWKAAPAKGQTFKRRRLNADAVPSKV
0000000000000000000000000000000000000000000000000000011000000000000000000000
>DM_train2904
ALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDISGGRGGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQ
0000000000000000000000000000000000000000000000000000000000000000000000000000000011
>DM_train2905
YTNSDFVVIKALEDGVNVIGLTRGADTRFHHSEKLDKGEVLIAQFTEHTSAIKVRGKAYIQTRHGVIESEGKKAAAM
1110000000000000000000000000000000000000000000000000000000000000000011111111111
>DM_train2906
QAKEPCVESLVSQYFQTVTDYGKDLMEKVKSPELQAEAKSYFEKSKEQLTPLIKKAGTELVNFLSYFVELGTQPATQ
1110001100000010000000000000000000000000000000000000000000000000000000000000000001
>DM_train2907
AMDPEFMGREVENLILENTQLLETKNALNIVKNDLIAKVDELTCEKDVLQGELEAVKQAKLKLEEKNRELEEELRKA
1111100000000000000000000000000000000000000000000000000000000000000011111111111
>DM_train2908
MPMISCDMRYGRTDEQKRALSAGLLRVISEATGEPRENIFFVIREGSGINFVQHGEHLPDYVPGNANDKALIAKLK
1000000000000000000000000000000000000000000000000000000000000000000011111111111
>DM_train2909
RFYVKDHRNKAMINLHIQKDNPKIVHAFDMEDLGDKAVYCRCWRSKKFPFCDGAHTKHNEETGDNVGPLIIKKKET
0000000000000000000000000000000000000000000000000000000000000000000000000000001111
>DM_train2910

MKLYFNGGKKKKIRAVDFVGTIAKIDGVSADDIGIITIMDNASYVEILNGKGPHVLKVMKNTTVKGKQ
LKVNKANK
0000000000111100000000000000000000000000000000000000000000000011100000
00001
>DM_train2911
MQPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAVIFRTKLGKEICADPKEKWVQNYMKHL
GRKAHTLKT
1110000000000000000000000000000000000000000000000000000000000000011111
11111
>DM_train2912
MEKKALTLAERQRLIVEGLPHVSATLARRLLKHFGSVERVFTASVAELMKVEGIGEKIAKEIRRVITAP
YIEDEE
1111000000000000000000000000000000000000000000000000000000000000000000
0111
>DM_train2913
NECVSKGFGCLPQSDCPQEARLSYGGCSTVCCDLSKLTGCKGKGGECNPLDRQCKELQAESASCGKGQ
KCCVWLH
0000000000000000000000000000000000000000000000000000000000000000000000
0001
>DM_train2914
MRVEALGKVAPLPQAQTPVSLNEASLEELMALPGIGPVLARRIVEGRPYARVEDLLKVKGIGPATLER
LRPYLRP
1111111111000000000000000000000000000000000000000000000000000000000000
0000
>DM_train2915
VDQADDAAIQQTLAKMGIKSSDIQPAPVAGMKTVLTNSGVLYITDDGKHIIQGPMYDVSGTAPVNVT
NKMLLKQL
1111000000000000000000000000000000000000000000000000000000000000000000
0001
>DM_train2916
GKSNGEKKYIVGFKQGFKSCAKKEDVISEKGGKLQKCFKYVDAASATLNEKAVEELKKDPSVAYVEED
KLYRAL
1111100000000000000000000000000000000000000000000000000000000000000000
000
>DM_train2917
KVFVGRCTEDMTAEELQQFFCQYGEVVDVFIPKPFRAFAFVTFADDKVAQSLCGEDLIIKGISVHISNA
EPKHN
0000000000000000000000000000000000000000000000000000000000000000000001
111
>DM_train2918
VDMSNVVKTYDLQDGSKVHVFKDGKMGMENKFGKSMNMPEGKVMETRDGTKIIMKGNEIFRLDE
ALRKGHSEGG
0000000000000000000000000000000000000000000000000000000000000011111
111

>DM_train2919
YDGTKCKAAGNCWEPKPGFPEKIAGSKYDPKHDPKELNKQADSIKQMEERNKKRVENFKKTGKFE
YDVAKISAN
000000000000000000000000000000000000000000000000000000000000000000000000000
001
>DM_train2920
MQSHHDHYADLVKFGQRLRELRTAKGLSQETLAFLSGLDRSYVGGVERGQRNVSLVNILKLATALDIE
PRELFC
111111100000000000000000000000000000000000000000000000000000000000000000000
001
>DM_train2921
MSELFSVPYFIENLKQHIEMNQSEDKIHAMNSYYRSVVSTLVQDQLTKNAVVLKRIQHLDEAYNKVK
RGESKLE
110000000000000000000000000000000000000000000000000000000000000000000011
111
>DM_train2922
AVQQNKELNFKLREKQNEIFELKKIAETLRSKLEKYVDITKKLEDQNLNLQIKISDLEKKLSDANSTF
KEMRFP
110000000000000000000000000000000000000000000000000000000001111111
111
>DM_train2923
QELRLRVQGKEKHQMLEISLSPDSPLKVLMSHYEEAMGLSGHKLSFFFDGTKLSGKELPADLGLESG
DLIEVWG
110000000000000000000000000000000000000000000000000000000000000000000000000
000
>DM_train2924
MSDVLIRDIPDDVLASLDAIAARLGLSRTEYIRRRLAQDAQTARVTVTAADLRRLRGAVAGLGDPELM
RQAWR
100000000000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train2925
MAKKDGAIEVEGRVVEPLPNAMFRIELENGHKVLAHISGKMRQHYIRILPEDRVVVELSPYDLSRGR
IVYRYK
111111000000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train2926
KNVTLTIRLLMHGKEVGSIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMIIDKL
EED
110000000000000000000000000000000000000000000000000000000000000000000000000
00
>DM_train2927
GPLGSDLKDAEAVQKFFLEEIQLGEELLAQGDYEKGVDHLTNAIAVCGQPQQLLQVLQQTLPPPVFQ
MLLTKL
111110000000000000000000000000000000000000000000000000000000000000000000000

00
>DM_train2928
GSGEGSEDDPLYDEAVRFVTESRRASISAVQRKLKIGYNRAARMIEAMEMAGVVTPMNTNGSREVIA
PAPVRD
1111111100000000000000000000000000000000000000000000000000000000011
11
>DM_train2929
MSNNQQMMLNRIKVVLAEKQRTNRWLAEQMGKSENTISRWCSNKSQPSLDMLVKVAELLNVDPR
QLINGKIKI
1111110000000000000000000000000000000000000000000000000000000000111
11
>DM_train2930
NKYDWFEFFLNCGVDVSNCQRYTINFDREQLTEDMMPDINNSMLRTLGLREGDIVRVMKHLDKKF
GRENIAS
1000000000000000000000000000000000000000000000000000000000000001111
1
>DM_train2931
AMATRQEEMIDHRLTDREWAEEWKHLDHLLNCIMDMVEKTRRSLTVLRRCQEADREELNYWIRR
YSDAEDLK
1111111111000000000000000000000000000000000000000000000000000000011
1
>DM_train2932
MKKHHHHHHHDNATDDPVDLVYAAEKIIQKRVKKGVVEYRVKWKGWNQRYNTWEPEVNILDRRLI
DIYEQTNK
1111111111111111100000000000000000000000000000000000000000000000111
1
>DM_train2933
MVSGEVRTKKVPLDTNHKRFYDAFAQGAGKLDLDRQCVECHHEKPGGIPFPKNHPVKPADGPMRC
LFCHKFK
1111100000000000000000000000000000000000000000000000000000000000000
0
>DM_train2934
MAGYLNNIALNLEIVLKNKADSPEVSETLVTRICENLLLSKEVSFLKADGSVENFKLSDMEYEITNTE
ELPE
1000000000000000000000000000000000000000000000000000000000000000000
1
>DM_train2935
QPRRPALRQCCNQLRQVDRPCVCPVLRQAAQQVLQRQIIQGPQQLRRLFDAARNLPNICNIPNIGAC
PFRAW
1111000000000000000000000000000000000000000000000000000000000000000
1
>DM_train2936
ARARKGALVQCDPSIKALILQIDAKMSDIVLEELDDTHLLVNPSKVEFVKHELNRLLSKNIYNPMDEE
ENQ

00000000000000000000000000000000000000000000000000000000000011111111
>DM_train2937
LKYMVPGARVTRGLDWKWRDQDGSPQGEGTVTGELHNGWIDVTWDAGGSNSYRMGAEGKFDLK
LAPGYDPD
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2938
AVCPTGLFSNPLCCATNVLDLIGVDCKTPTIAVDTGAIFQAHCASKGSKPLCCVAPVADQALLCQKAIG
TF
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2939
MNLTVNGKPSTVDGAESLNVTELLSALKVAQAEYVTVELNGEVLEREAFDATTVKDGDAVEFLYFM
GGGK
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2940
PFIECHIATGLSVARKQQLIRDVIDVTNKSIGSDPKIINVLLVEHAEANMSISGRIHGEAASTERTPAVS
00000000000000000000000000000000000000000000000000000000111111111111
>DM_train2941
MSRFDSGLPSVRQVQLLIKDQTPVEIKLLTGDSLFGTIRWQDTDGLGLVDDSERSTIVRLAAIAYITPR
R
11110000000000000000000000000000000000000000000000000000000000000001
>DM_train2942
AHAAIDTFTKYLDIDEDFATVLVEEGFSTLEELAYVPMKELLEIEGLDEPTVEALRERAKNALATIAQ
AQ
00000000000000000000000000000000000000000000000000000000000000000011
>DM_train2943
GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAK
SA
10000000000000000000000000000000000000000000000000000000000001111111
>DM_train2944
EAEEDGDLQCLCVKTTSQVRPRHITSLEVIKAGPHCAVPQLIATLKNGRKICLDLQAPLYKKIIKKLLE
S
11111110000000000000000000000000000000000000000000000000000000000000
>DM_train2945
RTDRLEVCREYQRGNCNRGENDCRFAHPADSTMIDTNDNTVTVCMDYIKGRCSREKCKYFHPPAHL
QAK
11000000000000000000000000000000000000000000000000000000000000000001
>DM_train2946
TEDVSDLPVEEQLRRLQEERTCKVCMDKEVSIVFIPCGHLVVCKDCAPSLRKCPICRSTIKGTVRTFLS
11110000000000000000000000000000000000000000000000000000000000000000
>DM_train2947
GDSVEKIVLELSGLSCHHCVARVKKALEEAGAKVEKVDLNEAVVAGNKEDVDKYIKAVEAAGYQAKL
RS
10000000000000000000000000000000000000000000000000000000000000000000
>DM_train2948

HLNVLAKALYDNVAESPDELSFRKGDIMTVLEQDTQGLDGWWLCSLHGRQGIVPGNRLKILVGMYD
KKP
10000000000000000000000000000000000000000000000000000000000000000000
>DM_train2949
GPLGSAEGWLPLSGGQGQSEDSDPLLQQIHNITSFIRQAKAAGRMDEVRTLQENLRQLQDEYDQQQ
TEK
11111100000000000000000000000000000000000000000000000000000000000011
>DM_train2950
MEKDLLDKLGQHLVWRMGRAEDEDVLVVRVGLASATPRFRELPRLLNLPEAEMRRLVQEGRVRVE
WVEE
11111111111000000000000000000000000000000000000000000000000000000000
>DM_train2951
GSHMPDWRQFCELHAQAAAVDFAHKFCRFLRDNPAYDTPDAGASFSRHFAANFLDVFGEEVRRVLV
AGP
11110000000000000000000000000000000000000000000000000000000000000111
>DM_train2952
ASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCANPKQTWVKYIVRLLSKKVK
N
11110000000000000000000000000000000000000000000000000000000000000000
>DM_train2953
MEQKTLQVEGMSCQHCVKAVETSVGELDGVSAVHVNLEAGKVDVSFDADKVSVKDIADAIEDQGYD
VAK
00000000000000000000000000000000000000000000000000000000000000000001
>DM_train2954
MSEPEVPFKVVAQFPYKSDYEDDLNFEKDQEIIVTSVEDAEWYFGEYQDSNGDVIEGIFPKSFVAVQG
11000000000000000000000000000000000000000000000000000000000000000000
>DM_train2955
MVFKKVLLTGTSEESFTAAADDAIDRAEDTLDNVVWAEVVDQGVEIGAVEERTYQTEVQVAFELDGS
Q
10000000000000000000000000000000000000000000000000000000000000000111
>DM_train2957
GSKLQEVEIRNKDLEGQLSEMEQRLEKSQSEQDAFRSNLKTLLEILDGKIFELTELRDNLAKLLECS
11100000000000000000000000000000000000000000000000000000000000000111
>DM_train2958
GSHMLSTGDNLEQKILQVLSDDGGPVAIFQLVKKCQVPKKTLNQVLYRLKKEDRVSSPSPKYWSIGG
11111111000000000000000000000000000000000000000000000000000000000001
>DM_train2959
SNAMMTKKERIAIQRSMAEEALGKLKAIRQLCGAEDSSDSSDMQEVEIWTNRIKELEDWLWGESPI
A
11111000000000000000000000000000001111100000000000000000000000000000
>DM_train2960
MKKIPLSKYLEEHGTQSALAAALGVNQSAISQMVRAGRSIEITLYEDGRVEANEIRPIPARPKRTAA
00000000000000000000000000000000000000000000000000000000011111111
>DM_train2961

ADPGAEPEASIDDLDAEALIRMALGPRNTMTSSNEQLVDALRASLKENEELRKESRRRADRRQEPM
11111111100000000000000000000000000000000000000000000000000000000
>DM_train2962
MVKVKFKYKGEEKEVDTSKIKKVWRVGKFVSFTYDDNGKTGRGAVSEKDAPKELLDMLARAEREK
K
10000000000000000000000000000000000000000000000000000000000000011
>DM_train2963
MQILFNDQAMQCAAGQTVHELLEQLDQRQAGAALAINQQIVPREQWAQHIVQDGDQILLFQVIAGG
10000000000000000000000000000000000000000000000000000000000000000
>DM_train2964
GPLGSENDLGITAVALYDYQAAGDDEISFDPDDIITNIEMIDDGWWRGVCKGRYGLFPANYVELRQ
11111110000000000000000000000000000000000000000000000000000000000
>DM_train2965
SFSSLYKTFFKRNAVFVGTIFAGAFVFQTVFDTAITSWYENHNKGKLWKDVKARIAAGDGDDDDE
00000000000000000000000000000000000000000000000000000011111111
>DM_train2966
GLKWTDSREIGEALYDAYPDLDPKTVRFTDMHQWICDLEDFDDDPQASNEKILEAILLVWLDEAE
00000000000000000000000000000000000000000000000000000000000000001
>DM_train2967
MNQPIELSLEQQFSIRSFATQVQNMSHDQAKDFLVKLYEQMVVREATYQELLKHQWGLDSGSTPA
11110000000000000000000000000000000000000000000000011111111111
>DM_train2968
MVRDAYIAQNYNCVYHCARDAYCNELCTKNGAKSGSCPYLGEHKFACYCKDLPDNVPIRVPGKCH
10000000000000000000000000000000000000000000000000000000000000000
>DM_train2969
GSHMRRRVRAILPYTKVPDTDEISFLKGDMFIVHNELEDGWMWVTNLRTDEQGLIVEDLVEEVGR
11110000000000000000000000000000000000000000000000000000000000001
>DM_train2970
TQLEEQLHNVETVRSITMQLEMALTKLKKDMMRGGDAKQYQVWQRESKALESAIAIIHYVAGDLK
11111111000000000000000000000000000000000000000000000000000000111
>DM_train2971
GHSSSDPVYPCGICTNEVNDDQDAILCEASCQKWFHRICTGMTETAYGLLTAEASAVWGCDTCMA
11111111000000000000000000000000000000000000000000000000000000000
>DM_train2973
PQFSQQREEDIYRFLKDNGPQRALVIAQALGMRTAKDVNRDLYRMKSRHLLDMDEQSKAWTIYR
00000000000000000000000000000000000000000000000000000000000000001
>DM_train2974
KSSHTLKTANSYTDVTVSNSTKKAIRESNQYTDHKFHQLENRLDKLEKRLLKLLASSAALNSLF
00000000000000000000000000000000000000000000000000001111111111
>DM_train2975
GSHMPVPSFGEAMAYFAMVKRYLTSFPIDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS
11110000000000000000000000000000000000000000000011111111111111
>DM_train2976
MVWLNGEPRPLEGKTLKEVLEEMGVELKGVAVLLNEEAFLGLEVPDRPLRDGDVVEVVALMQGG

00000000000000000000000000000000000000000000000000000000000000001
>DM_train2977
GSHMEANENILKLKLYRSLGVILDLENDQVLINRKNDGNIDILPLDNNLSDFYKTKYIWERLGK
11111000000000000000000000000000000000000000000000000000000000000
>DM_train2978
GSGAKSLFSTAFSESLAAEISSVSRDELMEAIQKQEEINFRLQDYIDRIIVAIMETNPSILEVK
11111111111111111111111000000000000000000000000000000000000000000
>DM_train2979
DAPANPCCDAATCKLTTGSQCADGLCCDQCKFMKEGTVCRRARGDDLDDYCNGISAGCPRNPFH
11100000000000000000000000000000000000000000000000000000011111
>DM_train2980
GSMLILTRRVGETLMIGDEVTVTVLGVKGNQVRIGVNAPKEVSVHREEIYQRIQAEKSQPTSY
00000000000000000000000000000000000000000000000000000000011111
>DM_train2981
GSHMKEPKLSPKQERFIEEYFINDMNATKAAIAAGYSKNSASAIGAENLQKPAIRARIDARLK
11111110000000000000000000000000000000000000000000000000000000000
>DM_train2982
GTKQEKTALNMARFIRSQTLTLLEKLNELDADEQADICESLHDHADELYRSCLARFGDDGENL
10000000000000000000000000000000000000000000000000000011111
>DM_train2983
YTDCTESGQNLCLCEGSNVCGQGNKCILGSDGEKNQCVTGEGTPKPQSHNDGDFEEIPEEYLQ
00000000000000000000000000000000000000000000000111000000000000
>DM_train2984
GPLGSSDGAVTLQEYLELKKALATSEAKVQQLMKVNSSLSDELRKLQREIHKLQAENLQLRQP
11111100000000000000000000000000000000000000000000000000000000001
>DM_train2985
GSQEQKGDAPTCGICHKTKFADGCGHNCSYCQTKFCARCGGRVSLRSNKVMWVCNLCRKQQE
11111111000000000000000000000000000000000000000000000000000000000
>DM_train2986
GSEFAIDPNEPTYCLCNQVSYGEMIGCDNEQCPIEWFHFSCVSLTYKPKGKWYCPKCRGDNE
11111111100000000000000000000000000000000000000000000000000000001
>DM_train2987
VFPSNATFGMGDRVRKKSGAAWQGQIVGWYCTNLTPEGYAVESEAHPGSVQIYPVAALERIN
11110000000000000000000000000000000000000000000000000000000000000
>DM_train2988
EMELEIDRNLDQIQQVSNRLKKMALTTGKELDSQQKRLNNIEESTDDLDINLHMNTNRLAGI
00000000000000000000000000000000000000000000000000000000000000001
>DM_train2989
MASLLTETMPFRMTMEGTVNGHHFKCTGKGEGNPFEGTQDMKIEVIEGGPLPFAFDILSTSC
11110000000000000000000000000000000000000000000000000000000000000
>DM_train2991
GSHMLCAISGKVPRRPVLSPKSRTIFEKSLLEQYVKDTGNDPITNEPLSIEEIVEIVPSAQ
11100000000000000000000000000000000000000000000000000000000000111
>DM_train2992

SGEKTVVCKHWLRGLCKKGDQCEFLHEYDMTKMSECYFYSKFGECSNKECPFLHIDPESKI
00000000000000000000000000000000000000000000000000000001111
>DM_train2993
MGEPTEFEYLRKVLFEYMMGRETKTMAKVITTVLKFPDDQTQKILEREDARLMSWLRSSS
10000000000000000000000000000000000000000000000000011111111
>DM_train2994
MVEMRMKKCPKCGLYTLKEICPKCGEKTVIPKPPKFSLEDRWGKYRRMLKRALKNKNKAE
11000000000000000000000000000000000000000000000000000000111
>DM_train2995
GPLGSPEFAIAKFDYVGRSARELSFKKGASLLLYHRASEDWWEGRHNGIDGLVPHQYIVV
11111000000000000000000000000000000000000000000000000000000
>DM_train2996
MDAKFLEILVCPLCKGPLVFDKSKDELICKGDRLAFPIKDGIPMMLESEARELAPEEEVK
11100000000000000000000000000000000000000000000000000000000
>DM_train2997
QKGQVGIFSFQNNYADSATTFRILAHLDEQRYPLPNGAAEKNLPSLFEGFKATVSIIQQR
11111111111111100000000000000000011110000000000000000000000
>DM_train2998
GMERGIVQYDFMAESQDELTIKSGDKVYILDDKKSKDWWMCQLVDSGKSGLVPAQFIEPV
11000000000000000000000000000000000000000000000000000000000
>A7IGZ0_4dyv_0_249
MSKTGKKIAIVTGAGSGVGRAVAVALAGAGYGVALAGRRLDALQETAAEIGDDALCVPTDVTDPDSV
RALFTATVEKFGRVDVLFNNAGTGAPAIPMEDLTFAQWKQVVDTNLTGPFLCTQEAFRVMKAQEPR
GGRIINNGSISATSPRPYSAPYTATKHAITGLTKSTSLDGRVHDIACGQIDIGNADTPMAQKMKAGVP
QADLSIKVEPVMDVAHVASAVVYMASLPLDANVQFMTIMATKMPLIGRG
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111111111111111110
00000000000000000000000000011111111
>Q9ZVQ3_1e6b_0_220
MANSGEEKLKLYSYWRSSCAHRVRIALALKGLDYEYIPVNLLKGDQFDSDFKKINPMGTVPALVDGD
VVINDSFAIIMYLDEKYPEPPLLPRDLHKRAVNYQAMSIVLSGIQPHQNLAVIRYIEEKINVEEKTAWV
NNAITKGFTALEKLLVNCAGKHATGDEIYLADLFLAPQIHGAINRFQINMEPYPTLAKCYESYNELPA
FQNALPEKQPDAPSSTI
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111111111110000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000001
>O06414_1q52_0_313
MVAPAGEQGRSSTALSDNPFDAKAWRLVDGFDDLTDITYHRHVDDATVRVAFNRPEVRNAFRPHT
VDELYRVLDHARMSPDVGVVLLTGNGPSPKDGGWAFCSGGDQRIRGRSGYQYASGDTADTVDVARA
GRLHILEVQRLIRFMPKVVICLVNGWAAGGGHSLHVVCDLTLASREYARFKQTDADVGSFDGGYGSA
YLARQVGQKFAREIFFLGRTYTAEQMHQMGAVNAVAEHAELETVGLQWAAEINAKSPQAQRMLKFA
FNLLDDGLVGQQLFAGEATRLAYMTDEAVEGRDAFLQKRPPDWSPFPRYF

11111111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111111111111111111111111111100000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000
>Q9M7R2_1unf_7_244
NVAGINLLFKEGPKVNAKFELKPPPYPLNGLEPVMSQQTLEFHWGKHHRTYVENLKKQVVGTELD
GKSLEEIIVTAYNKGDILPAFNNAAQVWNHDFFWECMKPGGGGKPSGELLELIERDFGSFEKFLDEF
KAAAATQFGSGWAWLAYKASKLDGENAANPPSADEDNKLVVIKSPNAVNPLVWGGYYPLLTIDVW
EHAYYLDFQNRRPDYISVFMDKLVSWDAVSSRLEQAKALSA
11111111111110000000000000000000000000000000000000000000001100000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111110000000000000000000000000000000000000000000000000
0000000000000000000000000
>Q3L181_3v0s_0_336
MPRVKLGTQGLEVSKLGFGCMGLSGDYNDALPEEQGIAVIKEAFNCGITFFDTSDIYGENGSNEELLG
KALKQLPREKIQVGTKFGIHEIGFSGVKAKGTPDYVRSCCEASLKRLDVDYIDLFYIHRIDTTVPIEITM
GELKKLVEEGKIKYVGLSEASPDTIRRAHAVHPVTALQIEYSLWTRDIEDEIVPLCRQLGIGIVPYSPIG
RGLFAGKAIKESLPENSVLTSHPRFVGENLEKNKQIYYRIEALSQKHGCTPVQLALAWVLHQGEDVV
PIPGTTKIKNLHNNVGALKVKLTKEDLKEISDAVPLDEVAGESIHEVIAVTNWKFANTPPLK
00000000000000000000000011111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011111111111111111111111110000000000000000000000000000000000000000
00000000000000000000000000111111111111111110000000001
>Q4WHY9_2c3b_0_204
MSQVFFDVEYAPVGTAETKVGRIVFNLFDKDVPKTAKNFRELCKRPAGEGYRESTFHRIIPNFMIQGG
DFTRGNGTGGRSIYGDKFADENFSRKHDKKGILSMANAGPNTNGSQFFITTAVTSWLDGKHVVFGE
VADEKSYSVVKEIEALGSSSGSVRSNTRPKIVNCGEL
00000000000000000000000000000000000000000000000000000000000000000000011
11111111111111111111000000000000011111111000000000000000000000000000000
00000000000000000000000000000
>P01751_1a6v_19_138
QVQLQQPGAELVKPGASVKLSCKASGYTFTSYWMHWVKQRPGRGLEWIGRIDPNSGGTKYNEKFK
SKATLTVDKPSSTAYMQLSSLTSEDSAVYYCARYDYYGSSYFDYWGQGTTLTVSS
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001
>P00593_4bp2_15_144
QAGLNSRALWQFNGMIKCKIPSSEPLLDFNNYGCYCGLGGSGTPVDDLDRCCQTHDNCYKQAKKLD
SCKVLVDNPYTNNYSYSCSNNEITCSSENNACEAFICNCDRNAAICFSKVPYNKEHKNLDKKNC
11111110000000000000000000000000000000000000000000000000000000000000000
11111100000000000000000000000000000000000000000000000
>P0A616_2i1u_0_115
MTDSEKSATIKVTDASFATDVLSSNKPVLVDFWATWCGPCKMVAPVLEEIATERATDLTVAKLDVDT

NPETARNFQVVSIPTLILFKDGQPVKRIVGAKGKAALLRELSDVVPNLN
11111100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011
>Q06141_1uv0_26_174
EEPQRELPSARIRCPKGSKAYGSHCYALFLSPKSWTDADLACQKRPSGNLVSVLSGAEGSFVSSLVKSI
GNSYSYVWIGLHDPTQGTEPNGEGWEWSSSDVMNYFAWERNPSTISSPGHCASLSRSTAFLRWKD
YNCNVRLPYVCKFTD
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000110000000000000000000000000000000000000000000000000000
0000000
>Q7D0E8_2r8w_0_301
MATRFKGLSAFPITPADEAGRVDIEAFSALIARLDAAEVDSVGILGSTGIYMYLTREERRRAIEAAATIL
RGRRTLMAGIGALRTDEAVALAKDAEAAGADALLLAPVSYTPLTQEEAYHHFAAVAGATALPLAIYN
NPTTTRFTFSDELLVRLAYIPNIRAIKMPLPADADYAGELARLRPKLSDDFAIGYSGDWGCTDATLAG
GDTWYSVVAGLLPVPALQLMRAAQAGNAEEAKRLDATFQPLWALFKEFGSIRVIYAAANILSLTVSEP
PRPILPLTSAERQRVEEALEALSALETAP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000111111
>A0PZS2_3g14_0_191
MEFYEVIKKRKSIKKFEQTAIDRDKLLKIIDMAMRAPSWKNKTPYKFIVVESDKLKLDIANAIENKTS
AASEAVLNSPMTIVAVANPEESGDVSGKEIYLIDTAIAMEHIVLGATDEGYGTCWIAAFNENKIKEALK
IPDNLRVVALTPLGVPKDSAEDEPHHPKKDMDEYLYIDKWGTSFMESNVKILEKN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111111000000000000000000000000111111
>O57946_3ath_0_427
MHEDVQLNIYVHSQEGIGMEENIKSMLGDVERFFSKKALEMRASEVRELLKLVETSDIISLAGGLPNP
KTFPKEIIRDILVEIMEKYADKALQYGTTKGFTPLRETLMKWLGKRYGISQDNDIMITSGSQQALDLIG
RVFLNPGDIVVVEAPTYLAALQAFNFYEPQYIQIPLDDEGMKVEILEEKLKELKSQGKKVKVVYTVPT
FQNPAGVTMNEDRRKYLLELASEYDFIVVEDDPYGELRYSGNPEKKIKALDNEGRVIYLGTFSKILAP
GFRIGWMVGDPGIIRKMEIAKQSTDLCTNVFGQVVAWRYVDGGYLEKHIPEIRKFYKPRRDAMLEA
LEEFMPEGVKWTKPEGGMFIWVTLPDGIDSKKMLERAIKKGVAYVPGEAFYAHRDVKNTMRLNFT
YVDEDKIMEGIKRLAETIKEELKA
11111111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00
>O87605_2cd8_0_415

MRRTQQGTTASPPVLDLGALGQDFAADPYPTYARLRAEGPAHRVRTPEGDEVWLVVGYDRARAVL
ADPRFSKDWRNSTTPLTEAEAALNHNMLESDPPRHTRLRKLVAREFTMRRVELLRPRVQEIVDGLV
DAMLAAPDGRADLMESLAWPLPITVISELLGVPEPDRAAFRVWTDAFVFPDDPAQAQTAMAEMSG
YLSRLIDSKRGQDGEDLLSALVRTSDEDGSRLTSEELLGMAHILLVAGHETTVNLIANGMYALLSHPD
QLAALRADMTLLDGAVEEMLRYEGPVESATYRFPVEPVDLDGTVIPAGDTVLVVLADAHRTPERFP
DPHRFDIRRDTAGHLAFGHGIHFCIGAPLARLEARIAVRALLERCPDLALDVSPGELVWYPNPMIRGL
KALPIRWRRGREAGRRTG
1111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111111111
>Q97YM2_2h6e_5_348
MVKSKAALLKKFSEPLSIEDVNIPEPQGEEVLIRIGGAGVCRTDLRVWKGVEAKQGFRLPIILGHENA
GTIVEVGELAKVKKGDNVVVYATWGDLTCRYCREGKFNICKNQIIPGQTTNGGFSEYMLVKSSRWLV
KLNSLSPVEAAPLADAGTTSMGAIRQALPFISKFAEPVVIVNGIGGLAVYTIQILKALMKNITIVGISRS
KKHRDFALELGADYVSEMKDAESLINKLTDGLGASIAIDLVGTEETTYNLGKLLAQEGAIILVGMEGK
RVSLEAFDTAVWNKKLLGSNYGSLNDLEDVVRLSESGKIKPYIIKVPLDDINKAFTNLDEGRVDGRQ
VITP
0000000000001111100000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111111111111110000000
>O75970_2fcf_1147_1242
QPRRVELWREPSKSLGISIVGGRGMGSRLSNGEVMRGIFIKHVLEDSPAGKNGTLKPGDRIVEVDGM
DLRDASHEQAVEAIRKAGNPVVFMVQSII
0000000000010000000000011111111111110000000000000000000000000000000000
00000000000000000000000
>P13792_1mvo_0_134
MNKKILVVDDEESIVTLLQYNLERSGYDVITASDGEEALKKAETEKPDLIVLDVMLPKLDGIEVCKQL
RQQKLMFPILMLTAKDEEFDKVLGLELGADDYMTKPFSPREVNARVKAILRRSEIAAPSSEMKNDE
M
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011111111111111
>Q2IR47_3sg0_0_382
MQQTKTLIVALATMLAGVTAAQAEIKIGITMSASGPGAALGQPQSKTVAALPKEIGGEKVTYFALDDE
SDPTKAAQNARKLLSEEKVDVLIGSSLTPVSLPLIDIAAEAKTPLMTMAAAAILVAPMDERRKWVYK
VVPNDDIMAEAIGKYIAKTGAKKVGYIGFSDAYGEGYYKVLAAAAPKLGFELTTHEVYARSDASVTGQ
VLKIIATKPDAVFIASAGTPAVLPQKALRERGFKGAIYQTHGVATEEFIKLGGKDVEGAIFAGEAFSGAE
DMPADSPFRKVKARFVDAYKAANGGAAPTIFGVHLWDSMTLVENAIPAALKAAKPGTPEFRAAIRD
QIEKSKDLALNNGLSNMTPDNHNGYDERSAFLIEIRDGAFRLKQ
1111111111111111111110000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001
>O59346_2hoq_0_240
MVKVIFFDLDDTLVDTSKLAEIARKNAIENMIRHGLPVDFETAYSELIELIKEYGSNFPYHFDYLLRRL
DLPYNPKWISAGVIAYHNTKFAYLREVPGARKVLIRLKELGYELGIITDGNPVKQWEKILRLELDDFF
EHVIISDFEGVKKPHPKIFKKALKAFNVKPEEALMVGDRLYSDIYGAKRVGMKTVWFRYGKHSEREL
EYRKYADYEIDNLESLLEVLARESSSNKKVHPPRQQI
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001111
>P07998_1dza_28_155
KESRAKKFQRQHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDVQNVCFQEKVTC
KNGQGNCYKSNSSMHITDCRLTNGSRYPNCAYRTSPKERHIIVACEGSPYVPVHFDASVEDST
000000000000000001111000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011
>O87989_2q1t_0_356
MPVIMNASKLANTNVMVVGGAGFVGSNLVKRLLELGVNQVHVVDNLLSAEKINVPDHPAVRFSETS
ITDDALLASLQDEYDYVFHLATYHGNQSSIHDPLADHENNTLTTLKLYERLKHFKRLKKVVYSAAGC
SIAEKTFDDAKATEETDIVSLHNNDSPYSMSKIFGEFYSVYYHKQHQLPTVRARFQNVYGPGEILGAG
RWRGTPATVWRNVTPTFIYKALKGMPLPLENGGVATRDFIFVEDVANGLIACAADGTPGGVYNIASG
KETSIADLATKINEITGNNTELDRLPKRPWDNSGKRFGSPEKARRELGFSADVSIDDGLRKTIEWTK
ANLAVIEQIMRKHDSALATYGK
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111111
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011110000000000000000000000000000000000000000000000000000
11
>P55144_3qup_484_799
LDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASSDIE
EFLREAACMKEFDHPHVAKLVGVSLRSRAKGRLPIPMVILPFMKHGDLHAFLLASRIGENPFNLPLQ
TLVRFMVDIACGMEYLSSRNFIHRDLAARNCMLAEDMTVCVADFGLSRKIYSGDYYRQGCASKLPVK
WLALESLADNLYTVHSDVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEEVYD
LMYQCWSADPKQRPSFTCLRMELENILGHLSVLSTSQDPLYINIERA
111111111111100000011100000000000000000011111110000000011111100000000
000000000000000000000000011111110000000000000000000000111000000000000
000000000000000000000000000000000000000011111111111111111000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001111111111111111111
>Q963I9_2rh7_0_232

MDLAKLGLKEVMPTKINLEGLVGDHAFSMEGVGEGNILEGTQEVKISVTKGAPLPFAFDIVSVAFSYG
NRAYTGYPEEISDYFLQSFPEGFTYERNIRYQDGGTAIVKSDISLEDGKFIVNVDFKAKDLRRMGPVM
QQDIVGMQPSYESMYTNVTSVIGECIIAFKLQTGKHFTYHMRTVYKSKKPVETMPLYHFIQHRLVKT
NVDTASGYVVQHETAIAAHSTIKKIEGSLP
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111000
0000000000000001111111
>Q59452_1z9n_22_198
HGDHMHNHDTKMDTMSKDMMSMEKIVVPVQQLDPQNGNKDVGTVEITESAYGLVFTPKLHDLA
HGLHGFHIHEKPSCEPKEKDGKLVAGLGAGGHWDPKQTQKHGYPWSDDAHMGDLPALFVMHDGS
ATTPVLAPRLKKLAEVKGHSLMIHAGGDNHSDHPAPLGGGGPRMACGVIK
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>Q59976_1gnx_0_478
MVPAAQQTATAPDAALTFPEGFLWGSATASYQIEGAAAEDGRTPSIWDTYARTPGRVRNGDTGDVAT
DHYHRWREDVALMAELGLGAYRFSLAWPRIQPTGRGPALQKGLDFYRRLADELLAKGIQPVATLYH
WDLPQELENPGGWPERPTAERFAEYAAIAADALGDRVKTWTTLNEPWCSAFLGYGSGVHAPGRTD
PVAALRAAHHLNLGHGLAVQALRDRLPADAQCSVTLNIHHVRPLTDSEADADAVRRIDALANRVFT
GPMLQGAYPEDLVKDTAGLTDWSFVRDGDLRLAHQKLDFLGVNYYSPTLVSEADGSGTHNSDGHGR
SAHSPWPGADRVAFHQPPGETTAMGWAVDPSGLYELLRRLSSDFPALPLVITENGAAFHDYADPEG
NVNDPERIAYVRDHLAAVHRAIKDGSDVRGYFLWSLLDNFEWAHGYSKRFGAVYVDYPTGTRIPKA
SARWYAEVARTGVLPTA
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>Q45670_1dbi_121_400
WTPNDTYYQGYQYGPQNTYTDYAWDVTKGSSGQEIAVIDTGVDYTHPDLDGKVIKGYDFVDNDYDP
MDLNNHGTHVAGIAAAETNNATGIAGMAPNTRILAVRALDRNGSGTLSDIADAIIYAADSGAEVINLS
LGCDCHTTTLENAVNYAWNKGSVVVAAAGNNGSSTTFEPASYENVIAVGAVDQYDRLASFSNYGTW
VDVVAPGVDIVSTITGNRYAYMSGTSMASPHVAGLAALLASQGRNNIEIRQAIEQTADKISGTGTYFKY
GRINSYNAVTY
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111110000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>Q00499_2bgv_20_153
QEGDAAKGEKEFNKCKACHMVQAPDGTDIVKGGKTGPNLYGVVGRKIASVEGFKYGDGILEVAEKNP
DMVWSEADLIEYVTDPKPWLVEKTGDSAAKTKMTFKLGKNQADVVAFLAQHSPDAGAEAAPAEGA

AN
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111111111111
>A4JL30_4f32_0_429
MTLRVVVTGIGIVSPLGCGKELVWQRLIGGGSGLRRLGDDIAGELSAKVGGTVQDVAEDPEGGFDPE
RSVPHKELRKMDRFIQMAMVAADEALAEAGWAPEAEQQRERTATVVASGIGGFPGLAEAVRIGETR
GVRRLSPFTIPFFLSNLAAGQISIKHRFRGPLGCPVTACAASVQAIGDAMRMIRTGEADVVLAGGAEA
AFDKVSLGGFAAARALSTGFSEEPVRASRPFDRDRDGFVMGEGAAMVVVESLDHALARGARPIAEII
GYGTTADAYHMTAGPDDGSGAMRAMKLALRMGDVAPEQVDYVNAHATSTPVGDAGEIEALKTVFG
VGAGPAISSTKSATGHLLGAAGAIEAAFSILALRDGVLPGTLNLEHPDPAADGLDLIGPAARHVPVEIA
LSNGFGFGGVNASVLFRRYPSDRSAEAH
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
1111
>Q84II3_1j1i_0_283
MLNKAEQISEKSERAFVERFVNAGGVETRYLEAGKGQPVILIHGGGAGAESEGNWRNVIPILARHYR
VIAMDMLGFGKTAKPDIEYTQDRRIRHLHDFIKAMNFDGKVSIVGNSMGGATGLGVSVLHSELVNAL
VLMGSAGLVVEIHEDLRPIINYDFTREGMVHLVKALTNDGFKIDDAMINSRYTYATDEATRKAYVAT
MQWIREQGGLFYDPEFIRKVQVPTLVVQGKDDKVVPVETAYKFLDLIDDSWGYIIPHCGHWAMIEH
PEDFANATLSFLSLRVD
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00011111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011
>P00306_3brp_0_161
MKTPITEAIAAADNQGRFLSNTELQAVNGRYQRAAASLEAARSLTSNAERLINGAAQAVYSKFPYTS
QMPGPQYASSAVGKAKCARDIGYYLRMVTYCLVVGGTGPMDEYLIAGLEEINRTFDLSPSWYVEALN
YIKANHGLSGQAANEANTYIDYAINALS
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>B2RM04_3fi9_1_332
SYLTEEKLTIVGAAGMIGSNMAQTAAMMRLTPNLCLYDPFAVGLEGVAEEIRHCGFEGLNLTFTSDIK
EALTDAKYIVSSGGAPRKEGMTREDLLKGNAEIAAQLGKDIKSYCPDCKHVIIIFNPADITGLVTLIYSG
LKPSQVTTLAGLDSTRLQSELAKHFGIKQSLVTNTRTYGGHGEQMAVFASTAKVNGTPLTDLIGTDKL
TNEQWAELKQRVVKGGANIIKLRGRSSFQSPSYVSIEMIRAAMGGEAFRWPAGCYVNVPGFEHIMM
AMETTITKDGVKHSDINQLGNEAERAALKESYSHLAKLRDEVIAMGIIPAIADWKTVNPN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000111111
>Q2QEH4_3hiw_21_279
VIIYELNLQGTTKAQYSTFLKQLRDDIKDPNLHYGGTNLPVIKRPVGPPKFLRVNLKASTGTVSLAVQ
RSNLYVAAYLAKNNNKQFRAYYFKGFQITTNQLNNLFPEATGVSNQQELGYGESYPQIQNAAGVTRQ
QAGLGIKKLAESMTKVNGVARVEKDEALFLLIVVQMVGEAARFKYIENLVLNNFDTAKEVEPVPDRV
IILENNWGLLSRAAKTANNGVFQTPLVLTSYAVPGVEWRVTTVAEVEIGIFLNVDNN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011
>O66513_2eg2_0_111
MKKIEAIIKPFKLDEVKDALVEIGIGGMTVTEVKGFGQQKGHTEIYRGTEYVIDFLPKVKIEVVVRDE
DVEKVVETIVKTAQTGRVGDGKIFIIPVEDVIRIRTGERGEQAI
00000000000000000000000000000000000011111111111111110000000000000000000
00000000000000000000000000000000000000000
>Q9GK11_4aa9_61_380
AREPLTSYLDSQYFGKIYIGTPPQEFTVVFDTGSSDLWVPSIYCKSNVCKNHHRFDPRKSSTFRNLGK
PLSIHYGTGSMEGFLGYDTVTVSNIVDPNQTVGLSTEQPGEVFTYSEFDGILGLAYPSLASEYSVPVFD
NMMDRHLVARDLFSVYMDRNGQGSMLTLGAIDPSYYTGSLHWVPVTLQQYWQFTVDSVTINGVAV
ACVGGCQAILDTGTSVLFGPSSDILKIQMAIGATENRYGEFDVNCGNLRSMPTVVFEINGRDYPLSPSA
YTSKDQGFCTSGFQGDNNSELWILGDVFIREYYSVFDRANNRVGLAKAI
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>O43175_2g76_3_313
ANLRKVLISDSLDPCCRKILQDGGLQVVEKQNLSKEELIAELQDCEGLIVRSATKVTADVINAAEKLQ
VVGRAGTGVDNVDLEAATRKGILVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKDGKWERK
KFMGTELNGKTLGILGLGRIGREVATRMQSFGMKTIGYDPIISPEVSASFGVQQLPLEEIWPLCDFITV
HTPLLPSTTGLLNDNTFAQCKKGVRVVNCARGGIVDEGALLRALQSGQCAGAALDVFTEEPPRDRAL
VDHENVISCPHLGASTKEAQSRCGEEIAVQFVDMVKGKSLTG
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111
>Q5SJ34_2cwd_0_160
MDRPVRVLFVCLGNICRSPMAEGIFRKLLKERGLEDRFEVDSAGTGAWHVGEPMDPRARRVLEEEG
AYFPHVARRLTREDVLAYDHILVMDRENLEEVLRRFPEARGKVRLVLEELGGGEVQDPYYGDLEDFR
EVYWTLEAALQAFLDRHGSPSPAAEGRA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

0000000001111111111
>Q6W6X6_2wua_16_448
PSSTSSSLENLSVSVCAAGDSAAYQRNSVFGDDVVIVAAYRSPLCKAKRGGLKDTYPDDILAPVLKALI
EKTNINPAEVGDIVVGSVLGAGSQRASECRMAAFYAGFPETVPVRTVNRQCSSGLQAVADVAAAIKAG
FYDIGIGAGLESMTANPMAWEGSVNPKVKTMAQAQDCLLPMGITSENVAQKFSITRQEQDQAAVGS
HRKAAAATAAGRFKDEIIPIKTKIVDPKTGDEKPVTISVDDGIRPGTSLADLAKLKPVFRKDGSTTAG
TSSQVSDGAGAVLLMKRSIALQKGLPILGVFRTFAAVGVPPSIMGIGPAVAIPAAVKAAGLQIDDIDLFE
INEAFASQFVYCQKKLEIDPQKINVNGGAMAIGHPLGATGARCVATLLHEMKRRGRDCRFGVVSMCI
GTGMGAAAVFERGDACDELCNAKAK
1111111111111111111111111110000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000001111111111
>Q3JV82_3dms_0_418
MPYQHIKVPEGGDKITVNKDFSLNVSDQPIIPYIEGDGTGFDITPVMIKVVDAAVEKAYGGKKKIHW
MEIYAGEKATKVYGPDVWLPEETLQVLKEYVVSIKGPLTTPVGGGIRSLNVALRQELDLYVCLRPIQYF
KGVPSPVREPEKTNMVIFRENSEDIYAGIEWAAESEQAKKVIKFLQEEMGVKKIRFPQTSGIGIKPVS
KEGTERLVRKAIQYAIDNDRKSVTLVHKGNIMKFTEGAFRDAGYALAQKEFGAELIDGGPWMKFKN
PKTGNEIVVKDSIADAFLQQILLRPAEYDVIATLNLNGDYISDALAAQVGGIGIAPGANLSDSVAMFEA
THGTAPKYAGKDYVNPGSEILSAEMMLRHLGWTEAADVIISAMEKSIKQKRVTYDFARLMEGATQV
SCSGFGQVLIENME
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011110000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>Q5L3S8_2egu_0_307
MARTVNSITELIGDTPAVKLNRIVDEDSADVYLKLEFMNPGSSVKDRIALAMIEAAEKAGKLKPGDTI
VEPTSGNTGIGLAMVAAAKGYKAVLVMPDTMSLERRNLLRAYGAELVLTPGAQGMRGAIAKAEELV
REHGYFMPQQFKNEANPEIHRLTTGKEIVEQMGDQLDAFVAGVGTGGTITGAGKVLREAYPNIKIYA
VEPADSPVLSGGKPGPHKIQGIGAGFVPDILDTSIYDGVITVTTEEAFAAARRAAREEGILGGISSGAAI
HAALKVAKELGKGKKVLAIIPSNGERYLSTPLYQFED
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
1111111111111100000000000000000000000000000000000000000000001111111111
1111111111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000
>B1YL86_3l6u_29_310
TSPKRNIVGFTIVNDKHEFAQRLINAFKAEAKANKYEALVATSQNSRISEREQILEFVHLKVDAIFITT
LDDVYIGSAIEEAKKAGIPVFAIDRMIRSDAVVSSITSNNQMIGEQLASYIKNELIKQTGRSTGRIVEITG

TANVYTTNERHRGFLKGIENEPTLSIVDSVSGNYDPVTSERVMRQVIDSGIPFDAVYCHNDDIAMGVL
EALKKAKISGKIVVGIDGNRAILEAVDMKSMDATVVQSAEEMMKVAFSALKLHTKNKKIPDRFYTYS
YLYDGSR
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000111
>P18465_2bvp_24_299
GSHSMRYFYTAMSRPGRGEPRFIAVGYVDDTQFVRFDSDAASPRMAPRAPWIEQEGPEYWDGETR
NMKASAQTYRENLRIALRYYNQSEAGSHIIQVMYGCDVGPDGRLLRGHDQSAYDGKDYIALNEDLSS
WTAADTAAQITQRKWEAARVAEQLRAYLEGLCVEWLRRYLENGKETLQRADPPKTHVTHHPISDH
EATLRCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVVPSGEEQRYTCHVQ
HEGLPKPLTLRWEP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000011
>P94556_1zuw_0_271
MLEQPIGVIDSGVGGLTVAKEIMRQLPKENIIYVGDTKRCPYGPRPEEEVLQYTWELTNYLLENHHIK
MLVIACNTATAIALDDIQRSVGIPVVGVIQPGARAAIKVTDNQHIGVIGTENTIKSNAYEEALLALNPD
LKVENLACPLLVPFVESGKFLDKTADEIVKTSLYPLKDTSIDSLILGCTHYPILKEAIQRYMGEHVNIIS
SGDETAREVSTILSYKGLLNQSPIAPDHQFLTTGARDQFAKIADDWFGHEVGHVECISLQEPIKR
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011111000000000111111
>P00785_2act_126_345
LPSYVDWRSAGAVVDIKSQGECGGCWAFSAIATVEGINKIVTGVLISLSEQELIDCGRTQNTRGCNGG
YITDGFQFIINNGGINTEENYPYTAQDGECNVDLQNEKYVTIDTYENVPYNNEWALQTAVTYQPVSV
ALDAAGDAFKQYSSGIFTGPCGTAVDHAVTIVGYGTEGGIDYWIVKNSWDTTWGEEGYMRILRNVGG
AGTCGIATMPSYPVKYNN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000011
>Q9L9E5_2c0z_0_206
MRLRPLGIEGVWEITPEQRADPRGVFLDWYHVDRFAEAIGRPLRLAQANLSVSVRGVVRGIHFVDV
PPGQAKYVTCVRGAVFDVVVDLRVGSPTYGCWEGTRLDDVSRRAVYLSEGIGHGFCAISDEATLCYLS
SGTYDPATEHGVHPLDPELAIDWPTGTPLLSPRDQDALLLAEARDAGLLPTYATCQAVTVPSPAPGS
VGDPGP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111111111111111111
>B3YEF4_3ak9_0_166

MSTAKLVKTKASNLLYTRNDVSESDKKATVELLNRQVIQFIDLSLITKQAHWNMRGANFIAVHEML
DGFRTALTDHLDTMAERAVQLGGVALGTTQVINSKTPLKSYPLDIHNVQDHLKELADRYAVVANDVR
KAIGEAKDEDTADIFTAASRDLDKFLWFIESNIE
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>P00392_1zx9_95_560
EPPVQVAVIGSGGAAMAAALKAVEQGAQVTLIERGTIGGTCVNVGCVPSKIMIRAAHIAHLRRESPFD
GGIAATVPTIDRSKLLAQQQARVDELRHAKYEGILGGNPAITVVHGEARFKDDQSLTVRLNEGGERV
VMFDRCLVATGASPAVPPIPGLKESPYWTSTEALASDTIPERLAVIGSSVVALELAQAFARLGSKVTVL
ARNTLFFREDPAIGEAVTAAFRAEGIEVLEHTQASQVAHMDGEFVLTTTHGELRADKLLVATGRTPN
TRSLALDAAGVTVNAQGAIVIDQGMRTSNPNIYAAGDCTDQPQFVYVAAAAGTRAAINMTGGDAAL
DLTAMPAVVFTDPQVATVGYSEAEAHHDGIETDSRTLTLDNVPRALANFDTRGFIKLVIEEGSHRLIG
VQAVAPEAGELIQTAALAIRNRMTVQELADQLFPYLTMVEGLKLAAQTFNKDVKQLSCCAG
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111111
>P13254_1gc0_0_397
MHGSNKLPGFATRAIHHGYDPQDHGGALVPPVYQTATFTFPTVEYGAACFAGEQAGHFYSRISNPTL
NLLEARMASLEGGEAGLALASGMGAITSTLWTLLRPGDEVLLGNTLYGCTFAFLHHGIGEFGVKLRH
VDMADLQALEAAMTPATRVIYFESPANPNMHMADIAGVAKIARKHGATVVVDNTYCTPYLQRPLEL
GADLVVHSATKYLSGHGDITAGIVVGSQALVDRIRLQGLKDMTGAVLSPHDAALLMRGIKTLNLRMD
RHCANAQVLAEFLARQPQVELIHYPGLASFPQYTLARQQMSQPGGMIAFELKGGIGAGRRFMNALQ
LFSRAVSLGDAESLAQHPASMTHSSYTPEERAHYGISEGLVRLSVGLEDIDDLLADVQQALKASA
11111100000000000000000000000000000000001111111111111111111000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111111111111100000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>Q3LSM4_2huf_0_392
MEYKVTPPAVLREPLVTPNKLLMGPGPSNAPQRVLDAMSRPILGHLHPETLKIMDDIKEGVRYLFQT
NNIATFCLSASGHGGMEATLCNLLEDGDVILIGHTGHWGDRSADMATRYGADVRVVKSKVGQSLSL
DEIRDALLIHKPSVLFLTQGDSSTGVLQGLEGVGALCHQHNCLLIVDTVASLGGAPMFMDRWEIDAM
YTGSQKVLGAPPGITPVSFSHRAVERYKRRNTKVKVYYWDMSLVGDYWGCFGRPRIYHHTISSTLLY
GLREAIAMACEEGLPALIARHEDCAKRLYRGLQDAGFELYADPKDRLSTVTTIKVPQGVDWLKAAQY
AMKTYLVEISGGLGPTAGQVFRIGLMGQNATTERVDRVLQVFQEAVAAVKPDVQVKGKM
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111
>A1B7S1_3fa5_0_280
MSDPAGKPCIICVAITGSLPTKENNPAVPITLAEQVESTHEAFEAGASIAHCHVRDDEGRPTSDPDRF
AALKEGLERHCPGMIVQLSTGGRSGAGQARGAMLPLCPDMASLSVGSNNFPTRVYENPPDLVDWLA
AEMLKYDIKPEIEAFDLSHILQAKRMAGDGRLAGTPYVQFVMGVRNAMPADRDVFDYYIHTVRRLF
GEDAPWCAAGIGPSQIVLNEWAISSGGHARTGLEDNVRLDRDRLAPSNAALVGRAVELCEKYERPVA
TWRQARQILGLRMV
111110000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>P26045_2b49_627_912
DTLEGSMAQLKKGLESGTVLIQFEQLYRKKPGLAITFAKLPQNLDKNRYKDVLPYDTTRVLLQGNED
YINASYVNMEIPAANLVNKYIATQGPLPHTCAQFWQVVWDQKLSLIVMLTTLTERGRTKCHQYWPD
PPDVMNHGGFHIQCQSEDCTIAYVSREMLVTNTQTGEEHTVTHLQYVAWPDHGVPDDSSDFLEFV
NYVRSLRVDSEPVLVHCSAGIGRTGVLVTMETAMCLTERNLPIYPLDIVRKMRDQRAMMVQTSSQYK
FVCEAILRVYEEGLVQMLDPS
111111111111111111000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000001111111
11
>Q5SH92_2d2e_0_249
MSQLEIRDLWASIDGETILKGVNLVVPKGEVHALMGPNGAGKSTLGKILAGDPEYTVERGEILLDGEN
ILELSPDERARKGLFLAFQYPVEVPGVTIANFLRLALQAKLGREVGVAEFWTKVKKALELLDWDESY
LSRYLNEGFSGGEKKRNEILQLLVLEPTYAVLDETDSGLDIDALKVVARGVNAMRGPNFGALVITHYQ
RILNYIQPDKVHVMMDGRVVATGGPELALELEAKGYEWLKEKVKEGA
100000000000000000000000000000000000000000000000000000000000
000000000000000010000000000000000000000000000000000000000000
111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000011111
>Q1QTX1_3lwd_0_224
MMNTTQEGRQRLAERLADTVAQALEADLAKRERALLVVSGGSTPKPFFTSLAAKALPWARVDVTL
ADERWVTADDADSNARLVRETLLVGPAAEACFHPLTTDDDTPEAGVETVAERLESLPWPASAVILG
MGGDGHTASLFPDSEQLATALETTSAAVVVHAPSVPQARITLSASRLADAGLHVLHITGNDKRRVLA
EALAGDDVRQLPIRAFLSQPIATYWAP
110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
0000000000
>P15700_1ukz_1_203
TAATTSQPAFSPDQVSVIFVLGGPGAGKGTQCEKLVKDYSFVHLSAGDLLRAEQGRAGSQYGELIKNCI

KEGQIVPQEITLALLRNAISDNVKANKHKFLIDGFPRKMDQAISFERDIVESKFILFFDCPEDIMLERL
LERGKTSGRSDDNIESIKKRFNTFKETSMPVIEYFETKSKVVRVRCDRSVEDVYKDVQDAIRDSL
11111110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>Q9KQI2_3lv8_0_211
MNAKFIVIEGLEGAGKSTAIQVVVETLQQNGIDHITRTREPGGTLLAEKLRALVKEEHPGEELQDITE
LLLVYAARVQLVENVIKPALARGEWVVGDRHDMSSQAYQGGGRQIAPSTMQSLKQTALGDFKPDLTL
YLDIDPKLGLERARGRGELDRIEKMDISFFERARERYLELANSDDSVVMIDAAQSIEQVTADIRRALQ
DWLSQVNRV
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000111110000000000000000000000000000000000000000000000000000000000000000011
>Q5RZ98_3zse_42_235
AVTSNETGYHDGYFYSFWTDAPGTVSMELGPGGNYSTSWRNTGNFVAGKGWATGGRRTVTYSASF
NPSGNAYLTLYGWTRNPLVEYYIVESWGTYRPTGTYMGTVTTDGGTYDIYKTTRYNAPSIEGTRTFD
QYWSVRQSKRTSGTITAGNHFDAWARHGMHLGTHDYMIMATEGYQSSGSSNVTLGTSGGDNP
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111
>Q2GI30_3u04_0_187
MSVLSIVTVPDKRLSLCSEEVEKVDQSIRKLVDDMFETMHANQGLGLAAVQVGVHKRILVMNVPEE
FEDSEDIENVEDKIEGYELYGGPYCIINPKIVDISQEKVKLKEGCLSVPGYFDYIVRPQRIAVQYLDYNG
NECIIKAQGWLARCLQHEIDHLNGTVFLKYLSKFKRDFAIEKVKKKERTDLI
00000000000000000000000000000000000000000000000000000000000000000011111
11111111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111
>Q9KCH6_2ah6_0_195
MRLYTRTGDKGKTSVIGGRLAKDDTRVVAYGTTDELNSFVGLAITQLDENTFADIRGELFKIQHELFD
CGGDLAMLKVKEDRPYKAKQEIVDFLEQRIDAYIKEAPELERFILPGGSEAAASLHVCRTIARRAERY
VVRLQQEGEINPIVLKYLNRLSDYFFAVARVVNSRLQVPDVEYERSAIVFREGKRKEDKK
11111111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111
>P53673_3lwk_7_195
SAGPWKMVVWDEDGFQGRRHEFTAECPSVLELGFETVRSLKVLSGAWVGFEHAGFQGQQYILERG
EYPSWDAWGGNTAYPAERLTSFRPAACANHRDSRLTIFEQENFLGKKGELSDDYPSLQAMGWEGNE
VGSFHVHSGAWVCSQFPGYRGFQYVLECDHHSGDYKHFREWGSHAPTFQVQSIRRIQQ
00000000000000000000000000000000000000000000000000000000000000000000000000000
00001111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011110000000000000
>Q29147_2ra6_15_179
LQPECSRSEEDLSDEKERKWEQLSRHWHTVVLASSDRSLIEEEGPFRNFIQNITVESGNLNGFFLTR
KNGQCIPLYLTAFKTEEARQFKLNYYGTNDVYYGSSKPNEYAKFIFYNYHDGKVNVVANLFGRTPNLS

NEIKKRFEEDFMNRGFRRENILDISEVDHC
11111111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>P03366_1w5w_489_598
ADRQGTVSFNFPQITLWQRPLVTIKIGGQLKEALLDTGADDTVLEEMSLPGRWKPKMIGGIGGFIKV
RQYDQILIEICGHKAIGTVLVGPTPVNIIGRNLLTQIGCTLNF
11111111111100000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000
>Q3JGP5_3ecd_0_423
MSNANPFFSQSLAERDASVRGAILKELERQQSQVELIASENIVSRAVLDAQGSVLTNKYAEGYPGKRY
YGGCEFADEVEALAIERVKRLFNAGHANVQPHSGAQANGAVMLALAKPGDTVLGMSLDAGGHLTH
GAKPALSGKWFNALQYGVSRDTMLIDYDQVEALAQQHKPSLIIAGFSAYPRKLDFARFRAIADSVGA
KLMVDMAHIAGVIAAGRHANPVEHAHVVTSTTHKTLRGPRGGFVLTNDEEIAKKINSAVFPGLQGG
PLMHVIAGKAVAFGEALTDDFKTYIDRVLANAQALGDVLKAGGVDLVTGGTDNHLLLVDLRPKGLKG
AQVEQALERAGITCNKNGIPFDPEKPTITSGIRLGTPAGTTRGFGAAEFREVGRLILEVFEALRTNPEG
DHATEQRVRREIFALCERFPIY
11000000000000000000000000000000000000000000000000000000000000001111111
11100000000000000000000000000000000000000000000000000011111111111111111
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>P19576_3jyr_0_395
MKIKTGVGILALSALTTMMISAPALAKIEEGKLVIWINGDKGYNGLAEVGKKFEQDTGIKVTVEHPDK
LEEKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEVTPDKAFQDKLYPFTWDAVRYNGKLIAYPIA
VEALSLIYNKDLVPNPPKTWEEIPALDKELKVKGKSAIMFNLQEPYFTWPLIAADGGYAFKFENGKY
DVKDVGVDNAGAKAGLTFLIDMIKNKNMSADTDYSIAEAAFNKGETAMTINGPWAWSNIDKSKVN
YGVTLLPTFKGKPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDQGLEAVNKDKPLGAVALKSFQE
QLAKDPRIAATMDNAQKGEIMPNIPQMSAFWYAVRTAVINAASGRQTVDAALKDAQSRITK
11111111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000
>B7X9Z2_3abx_19_402
APSASFERRQGSVNPYIGRSPLVIKSYAEKLEETIAYFEAQGDELNAARTRTVQGIPTFAWISDSATIDT
IQPLIADAVAHQEASGEQVLVQLVIYNLPDRDCAAKASDGEFHLDDDGANKYRAYVDRIVAELSTADA
DKLHFSIVLEPDSLGNMVTNMHVPKCQGAATAYKEGIAYTIASLQKPNIDLYIDAAHGGWLGWNDN
LRPSAEIFKETLDLARQITPNATVRGLAINVSNYNPYKTRAREDYTEWNNAYDEWNYVKTLTPHLQ
AVGFPAQFIVDQGRSGREGIRTEWGQWCNIRNAGFGIRPTTDQAIVDSANVDAIVWVKPGGESDGTS
DVNAVRFDENCRSPASHVPAPEAGEWFNEFVVNLVINANPPLEPTYA
11111111111100000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000
>O94753_3fmu_30_360
ATCDDGRTTANAACCILFPILDDIQENLFDGAQCGEEVHESLRLTFHDAIGFSPTLGGGGADGSIIAFD
TIETNFPANAGIDEIVSAQKPFVAKHNISAGDFIQFAGAVGVSNCPGGVRIPFFLGRPDAVAASPDHLV
PEPFDSVDSILARMGDAGFSPVEVVWLLASHSIAAADKVDPSIPGTPFDSTPGVFDSQFFIETQLKGR
LFPGTADNKGEAQSPLQGEIRLQSDHLLARDPQTACEWQSMVNNQPKIQNRFAATMSKMALLGQD
KTKLIDCSDVIPTPPALVGAAHLPAGFSLSDVEQACAATPFPALTADPGPVTSVPPVPGS
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111111111111
>Q8X236_3f8d_0_323
MSLLPRTTSVKPGEKFDVIIVGLGPAAYGAALYSARYMLKTLVIGETPGGQLTEAGIVDDYLGLIEIQAS
DMIKVFNKHIEKYEVPVLLDIVEKIENRGDEFVVKTKRKGEFKADSVILGIGVKRRKLGVPGEQEFAG
RGISYCSVCDAPLFKNRVVAVIGGGDSALEGAEILSSYSTKVYLIHRRDTFKQQPIYVETVKKKPNVEF
VLNSVVKEIKGDKVVKQVVVENLKTGEIKELNVNGVFIEIGFDPPTDFAKSNGIETDTNGYIKVDEW
MRTSVPGVFAAGDCTSAWLGFRQVITAVAQGAVAATSAYRYVTEKKGKK
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111
>Q9KQH6_3hjv_0_311
MKERFMSKFAIVFPGQGSQAVGMLADLAEQYAVVKQTFAEASEVLGYDLWALVQDGPVEDLNQTFR
TQPALLAASVAIWRVWQQLGLEQPAVLAGHSLGEYSALVCAGVIDFKQAIKLVELRGQLMQQAVPAG
TGAMYAIIGLEDEAIAKACADAAQGEVVSPVNFNSPGQVVIAGQKDAVERAGVLCKEAGAKRALPLP
VSVPSHCALMKPAADELAKTLAELEFNAPQIPVINNVDVVAETDPVKIKDALIRQLYSPVRWTECVE
QMSAQGVEKLIEMGPGKVLTGLTKRIVKTLEGVAVNDVASLDAVK
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000
>Q5LX22_3l12_0_311
MNGFSQLEGLRGHPSVVRVIGHRGARGVMPENTLEGFAFTLAAGVRALEFDVVMTADGVPVVTHN
HHLANAMTRDGQGHWLTGAERQVAEMTYAEIRALDVGGLDGRTVYGRRFPDQAFLTGIHVPRLGE
LLDLCAGYGDQAPYLLLELKSDPALMHDHAARAEMVAAVLADVRRYRMEPRTVMHSFDWALLGEC
RRQAPDLPTSYLSQLPENADDPGEDSAKPVGPDYDRMTESLPQAVASAGGQLWCPYFLDVTPELVA
EAHDLGLIVLTWTVNEPEDIRRMATTGVDGIVTDYPGRTQRILIDMGLSWT

11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11111111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>P59337_3a2n_0_309
MSKPIEIEIRRAPVLGSSMAYRETGAQDAPVVLFLHGNPTSSHIWRNILPLVSPVAHCIAPDLIGFGQS
GKPDIAYRFFDHVRYLDAFIEQRGVTSAYLVAQDWGTALAFHLAARRPDFVRGLAFMEFIRPMPTW
QDFHHTEVAEEQDHAEAARAVFRKFRTPGEGEAMILEANAFVERVLPGGIVRKLGDEEMAPYRTPF
PTPESRRPVLAFPRELPIAGEPADVYEALQSAHAALAASSYPKLLFTGEPGALVSPEFAERFAASLTRC
ALIRLGAGLHYLQEDHADAIGRSVAGWIAGIEAVRPQLAA
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000111
>C4M7X7_3ipw_0_301
MAQQFIDIGANLTDDNYFGNYHGKHYHEEDIDVVLQRAERNGLSHIIITSGCLNDFKKAIEIINKYQN
LTNIKLVTTIGVHPTRTNELKQEGYLDELLLLCEKNIDKVVAIGEIGLDYERLQFSDKETQLSGYRTLSI
LHQKYPYLPFFFHCRKSWSDLCQLNKELGYNGCKGVVHCFDGTEEEMNQILNEGWDIGVTGNSLQS
IELLNVMKQIPIERLHIETDCPYCGIKKTSAGFKYLKEKDFGVKVEKYQRNKYVQRRNEPSNIIDIAII
MSSIKHISLFEFVNKVYSNSMNMYFPTMN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011
>Q8Y9N5_3tnl_0_290
MTNKITERITGHTELIGLIATPIRHSLSPTMHNEAFAKLGLDYVYLAFEVGDKELKDVVQGFRAMNL
RGWNVSMPNKTNIHKYLDKLSPAAELVGAVNTVVNDDGVLTGHITDGTGYMRALKEAGHDIIGKK
MTICGAGGAATAICIQAALDGVKEISIFNRKDDFYANAEKTVEKINSKTDCKAQLFDIEDHEQLRKEIA
ESVIFTNATGVGMKPFEGETLLPSADMLRPELIVSDVVYKPTKTRLLEIAEEQGCQTLNGLGMMLW
QGAKAFEIWTHKEMPVDYIKEILF
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000
>Q54331_2nlr_40_273
DTTICEPFGTTTIQGRYVVQNNRWGSTAPQCVTATDTGFRVTQADGSAPTNGAPKSYPSVFNGCHYT
NCSPGTDLPVRLDTVSAAPSSISYGFVDGAVYNASYDIWLDPTARTDGVNQTEIMIWFNRVGPIQPIG
SPVGTASVGGRTWEVWSGGNGSNDVLSFVAPSAISGWSFDVMDFVRATVARGLAENDWYLTSVQAG
FEPWQNGAGLAVNSFSSTVETGTPGGTDPGDPG
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000111111111111
>Q8L3E1_2j4x_26_237
DAVLVNSELKNIYMKDVINKTNMKITKKIGTQLIFNTNEKTRVWDDDNYNKVISSNVSPAQERRFKE
EEEVDIYALIKSYSVICKEQYNYVDGGLIKTSDREKLDSTIYMNIFGEQIPLKEQSKYKITFQNKFVTFQ
EIDVRLRKSLMSDNRIKLYEHNSICKKGYWGIHYKDNTTKFTDLFTHPNYTDNETIDMSKVSHFDVY
LNEEFSKN
0000000000000000000000000000000000011111111111110000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000011
>Q48J46_3irv_30_251
AEVNPMSKPLVRWPINPLRTAVIVVDMQKVFCEPTGALYVKSTADIVQPIQKLLQAARAAQVMVIYL
RHIVRGDGSDTGRMRDLYPNVDQILARHDPDVEVIEALAPQSDDVIVDKLFYSGFHNTDLDTVLRA
RDVDTIIVCGTVTNVCCETTIRDGVHREYKVIALSDANAAMDYPDVGFGAVSAADVQRISLTTIAYEF
GEVTTTAEVIRRIESAYPHGR
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000001111
>P66952_1xvq_0_164
MAQITLRGNAINTVGELPAVGSPAPAFTLTGGDLGVISSDQFRGKSVLLNIFPSVDTPVCATSVRTFDE
RAAASGATVLCVSKDLPFAQKRFCGAEGTENVMPASAFRDSFGEDYGVTIADGPMAGLLARAIVVIG
ADGNVAYTELVPEIAQEPNYEAALAALGA
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111100000000000000000000000000000000000000000000
0000000000000000000000
>O31302_3nfd_0_152
MLDNREAMTVGVDLVHIPGFAEQLSRPGSTFEQVFSPLERRHAQTRRDAAADATNSSLAGSRTEHL
AGRWAAKEAFIKAWSQAIYGKPPVIEPDLVNFAEIEVLPDRWGRVALQLKGEVAAKLQESIGDVELAL
SISHDGDYATAQCLLRYQR
1111100000000000000000000000000000000000000011111111111110000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>P00138_1cgo_1_126
FAKPEDAVKYRQSALTLMASHFGRMTPVVKGQAPYDAAQIKANVEVLKTLSALPWAAFGPGTEGGD
ARPEIWSDAASFKQKQQAFQDNIVKLSAAADAGDLDKLRAAFGDVGASCKACHDAYRKKK
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011
>P33764_1kso_0_100
MARPLEQAVAAIVCTFQEYAGRCGDKYKLCQAELKELLQKELATWTPTEFRECDYNKFMSVLDTNK
DCEVDFVEYVRSLACLCLYCHEYFKDCPSEPPCSQ
1000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111

>P05205_1q3l_16_75
AEEEEEEYAVEKIIDRRVRKGKVEYYLKWKGYPETENTWEPENNLDCQDLIQQYEASRKD
11111100000000000000000000000000000000000000000000000000011
>A6KZB0_3lew_22_515
LDTIPTTYVDAGSVFGKTGDAEKVLNGGWNYLMETFNSYANPGYGAMLRANDAMGSDVVLNSKYG
FRTHNEFSAIYGKGGTNTLSWLLAYRVINDCNGVLDNIDAAEGTQADRNRIKGQALALRGFLYLHLA
SCYSFAIDKDPDAVCAPIYTQSTDETIAAEGKPASSVSEVYAQSINDLEEALELIPETYVRDAKHKIDNE
VVLGILSRACLYARQWEKAKTYSDKLLAKDNYLMTESEYKAGFNSVDNKEWIWGHAQTNDQSNAS
YQFHYLDTTTKGSYYYSFNVDPYFRDLFEDGDYRKEMLFWATDPGADVESAAYVWMRNSKFRFRD
IENQLGDIVLMRVAEIYLINAEAKAHLNDPDAINKLNDLKTARGAKTIHTNLSQQDLLETIWLERRK
ELWGEGFSLIDIIRNQQTVVRNAYPEGPIDYIYTDENGQTHTLKKKTQGHRFFNFPDKSAFCPNSKY
YLYRITDSEELANKNLYKDHPKLSIYTK
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000001000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000111000000000000000000000000000000000000000000000000000000
>Q2M1P5_4a14_7_346
LPGAEEAPVRVALRVRPLLPKELLHGHQSCLQVEPGLGRVTLGRDRHFGFHVVLAEDAGQEAVYQA
CVQPLLEAFFEGFNATVFAYGQTGSGKTYTMGEASVASLLEDEQGIVPRAMAEAFKLIDENDLLDCLV
HVSYLEVYKEEFRDLLEVGTASRDIQLREDERGNVVLCGVKEVDVEGLDEVLSLLEMGNAARHTGAT
HLNHLSSRSHTVFTVTLEQRGRAPSRLPRPAPGQLLVSKFHFVDLAGSERVLKTGSTGERLKESIQIN
SSLLALGNVISALGDPQRRGSHIPYRDSKITRILKDSLGGNAKTVMIACVSPSSSDFDETLNTLNYASR
AQ
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111110000000000
00000000011111111111100000000000000001111111111111100000000000000000
00000000000000000000000000000000000000000000000000000
>P20582_3h78_1_336
GNPILAGLGFSLPKRQVSNHDLVGRINTSDEFIVERTGVRTRYHVEPEQAVSALMVPAARQAIEAAGL
LPEDIDLLLVNTLSPDHHDPSQACLIQPLLGLRHIPVLDIRAQCSGLLYGLQMARGQILAGLARHVLVV
CGEVLSKRMDCSDRGRNLSILLGDGAGAVVVSAGESLEDGLLDLRLGADGNYFDLLMTAAPGSASPT
FLDENVLREGGGEFLMRGRPMFEHASQTLVRIAGEMLAAHELTLDDIDHVICHQPNLRILDAVQEQL
GIPQHKFAVTVDRLGNMASASTPVTLAMFWPDIQPGQRVLVLTYGSGATWGAALYRKPEEVNRPC
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111
>Q8NT37_3lmd_1_349
SSGRTVPTRSHGLGKEGVSTTGASQVEFGDPELTARINDAMVQVEELLHTELSSGEDFLVDIVMHLTR

AGGKRFRPMFALLASEFGEKPLSENVIKAAVVVEITHLATLYHDDVMDEASMRRGVPSANARWDNS
VAILAGDILLAHASGLMSQLGTDTVAHFAETFGELVTGQMRETVGPRDTDPIEHYTNVIREKTGVLIA
SAGYLGAMHAGAAPEHIDALKNFGAAVGMIFQIVDDIIDIFSETHESGKTPGTDLREGVFTLPVLYAL
REDTPVGAELRDILTGPLEDDETVNHVLELLSQSGGRQAALDEVYRYMDIANAELDRLPDSTVKEAL
RNLATFTVKRVG
11111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111111111000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
>Q8P8J2_3kzo_0_338
MSLKHFLNTQDWSRAELDALLTQAALFKRNKLGSELKGKSIALVFFNPSMRTRTSFELGAFQLGGHA
VVLQPGKDAWPIEFNLGTVMDGDTEEHIAEVARVLGRYVDLIGVRAFPKFVDWSKDREDQVLKSFA
KYSPVPVINMETITHPCQELAHALALQEHFGTPDLRGKKYVLTWTYHPKPLNTAVANSALTIATRMG
MDVTLLCPTPDYILDERYMDWAAQNVAESGGSLQVSHDIDSAYAGADVVYAKSWGALPFFGNWEPE
KPIRDQYQHFIVDERKMALTNNGVFSHCLPLRRNVKATDAVMDSPNCIAIDEAENRLHVQKAIMAA
LVGQSRP
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111
>Q8Y8T4_4gl0_27_356
SEGYAGSNTLTIYNWGDYIDPSLITKFEKETGIKVIYQTFDSNEAMMTKIEQGGTTFDIAVPSDYAISK
MKEENLLIPLDHSKLPNEKYLDPRFMDLSFDDDNKYSMPYFWGTLGIIYNKEMFPDKNFDTWNAL
FDPELKNQILLIDGAREVMGLGLNSLGYSLNDTNKAHLQAARDKLETMTPNVKAIVGDEIKLLMAD
NEAGVAVTFSGEAAEMLSENEDLEYVIPKDGSNLWFDNMVIPKTAKNVDGAHKFINFMLKPENAAI
NAEYVGYATPNAKAVELLPKEISSDERFYPDMDELNNLEVYDNLGKRMLSYYNELFLEFKMYRK
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001
>P83749_1rj9_0_303
MGFFDRLKAGLAKTRERLLKAIPWGGNLEEVLEELEMALLAADVGLSATEEILQEVRASGRKDLKE
AVKEKLVGMLEPDERRATLRKLGFNPQKPKPVEPKGRVVLVVGVNGVGKTTTIAKLGRYYQNLGKK
VMFCAGDTFRAAGGTQLSEWGKRLSIPVIQGPEGTDPAALAYDAVQAMKARGYDLLFVDTAGRLHT
KHNLMEELKKVKRAIAKADPEEPKEVWLVLDAVTGQNGLEQAKKFHEAVGLTGVIVTKLDGTAKGG
VLIPIVRTLKVPIKFVGVGEGPDDLQPFDPEAFVEALLED
11111111111111111111111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001

>Q9Z4N6_1q35_22_341
ANEVNVYSYRQPYLIEPMLKNFEKDTGIKVNIIFADKGLVDRVKQEGELSPADVLLTVDISRVMEIVN
ADLAQKIDSKVLEKNIPAQFRDSNDQWFGLTTRARVIYTSKDRVGKLPAGFDYLDLAKPEYKGKVCV
RSGKNSYNVSLFAAMIEHYGIEKTKAFLEGLKANLARKPQGGDRDQVKAIKEGICDYSIGNSYYYGK
MLDDEKQKSWAEAAIINFPSGEHGTHKNISGVVIAKHSPNKANAVKLIEYLSGEKAQGLYAELNHEY
PVKEGIEPSAIVKGWGTFKSDTIKLEDIAKNYEAALKLVDEVKFDDFSEKK
00000000000000000000000000000000000010000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>Q1JU72_1y37_0_303
MFEGFERRLVDVGDVTINCVVGGSGPALLLLHGFPQNLHMWARVAPLLANEYTVVCADLRGYGGSS
KPVGAPDHANYSFRAMASDQRELMRTLGFERFHLVGHDRGGRTGHRMALDHPDSVLSLAVLDIIPT
YVMFEEVDRFVARAYWHWYFLQQPAPYPEKVIGADPDTFYEGCLFGWGATGADGFDPEQLEEYRK
QWRDPAAIHGSCCDYRAGGTIDFELDHGDLGRQVQCPALVFSGSAGLMHSLFEMQVVWAPRLANM
RFASLPGGHFFVDRFPDDTARILREFLSDARSGIHQTERRES
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111111111
>Q7CWE5_2h8o_0_303
MDAQMTNFETRLRENAAKTEALLGHLLSGEARADEITRPQNLLEAMRHGVLNGGKRLRPFLVIESV
ALLGGDAEAGLHVGAALECLHCYSLVHDDLPAMDDDDLRRGQPTVHRKFDEATAILAGDSLLTLAF
DIIASDDNPLAAERKAALVISLARAAGIGGMAGGQALDLAAEKKAPDEDGIITLQAMKTGALLRFACE
AGAIIAGSNQAERQRLRLFGEKIGLSFQLADDLLDLTADAATMGKATGKDAARGKGTLVALRGEAWA
REKLQEQVAEASELLAPYGEKAAILIAAARFIAERKS
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111111100000000000000000000000000000
0000000000000000111
>Q62645_3oen_423_826
DDTQHLTVATLEERPFVIVEPADPISGTCIRDSVPCRSQLNRTHSPPPDAPRPEKRCCKGFCIDILKRL
AHTIGFSYDLYLVTNGKHGKKIDGVWNGMIGEVFYQRADMAIGSLTINEERSEIVDFSVPFVETGISV
MVARVDTVSGLSDRKFQRPQEQYPPLKFGTVPNGSTEKNIRSNYPDMHSYMVRYNQPRVEEALTQL
KAGKLDAFIYDAAVLNYMARKDEGCKLVTIGSGKVFATTGYGIALHKGSRWKRPIDLALLQFLGDDEI
EMLERLWLSGICHN
11000000000000000000000000000000000001111111111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
1

>P31663_1iho_0_282
MLIIETLPLLRQQIRRLRMEGKRVALVPTMGNLHDGHMKLVDEAKARADVVVVSIFVNPMQFDRPE
DLARYPRTLQEDCEKLNKRKVDLVFAPSVKEIYPNGTETHTYVDVPGLSTMLEGASRPGHFRGVSTI
VSKLFNLVQPDIACFGEKDFQQLALIRKMVADMGFDIEIVGVPIMRAKDGLALSSRNGYLTAEQRKIA
PGLYKVLSSIADKLQAGERDLDEIITIAGQELNEKGFRADDIQIRDADTLLEVSETSKRAVILVAAWLG
DARLIDNKMVELA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001
>D0VWZ1_3hkx_0_262
MRIALMQHTARPLDPQHNLDLIDDAAARASEQGAQLLLTPELFGFGYVPSQICAQVSAEQVDAARSR
LRGIARDRGIALVWSLPGPEGPEQRGITAELADEHGEVLASYQKVQLYGPEEKAAFVPGEQPPPVLS
WGGRQLSLLVCYDVEFPEMVRAAAARGAQLVLVPTALAGDETSVPGILLPARAVENGITLAYANHCG
PEGGLVFDGGSVVVGPAGQPLGELGVEPGLLVVDLPDQSQDAGSDSADYLQDRRAELHRNWL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000111111111100000000000000
>O32125_3pdw_1_255
KTYKGYLIDLDGTMYNGTEKIEEACEFVRTLKDRGVPYLFVTNNSSRTPKQVADKLVSFDIPATEEQV
FTTSMATAQHIAQQKKDASVYVIGEEGIRQAIEENGLTFGGENADFVVVGIDRSITYEKFAVGCLAIRN
GARFISTNGDIAIPTERGLLPGNGSLTSVLTVSTGVQPVFIGKPESIIMEQAMRVLGTDVSETLMVGDN
YATDIMAGINAGMDTLLVHTGVTKREHMTDDMEKPTHAIDSLTEWIPYI
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011111100000000000000000000
>P63590_2ocz_0_227
MRIVAPVMPRHFDEAQAIDISKYEDVNLIEWRADFLPKDEIVAVAPAIFEKFAGKEIIFTLRTVQEGGN
ITLSSQEYVDIIKEINAIYNPDYIDFEYFTHKSVFQEMLDFPNLILSYHNFEETPENLMEAFSEMTKLA
PRVVKIAVMPQSEQDVLDLMNYTRGFKTLNPEQEFATISMGKLGRLSRFAGDVIGSSWTYVSLDHVS
GPGQVTLNDMKRIIEVLEMDISN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000111111000000
000000000011111
>C7B6Z3_3m19_0_249
KTCETVTGCTCNEGKKEVDCQGKSLDSVPSGIPADTEKLDLQSTGLATLSDATFRGLTKLTWLNLDY
NQLQTLSAGVFDDLTELGTLGLANNQLASLPLGVFDHLTQLDKLYLGGNQLKSLPSGVFDRLTKLKE
LRLNTNQLQSIPAGAFDKLTNLQTLSLSTNQLQSVPHGAFDRLGKLQTITLFGNQFDCSRCEILYLSQ
WIRENSNKVKDGTGQNLHESPDGVTCSDGKVVRTVTNETLKYECPFVE
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
1111111000000000000000000000000001111
>Q56691_1bkj_0_239
MNNTIETILAHRSIRKFTAVPITDEQRQTIIQAGLAASSSSMLQVVSIVRVTDSEKRNELAQFAGNQAY
VESAAEFLVFCIDYQRHATINPDVQADFTELTLIGAVDSGIMAQNCLLAAESMGLGGVYIGGLRNSAA
QVDELLGLPENSAVLFGMCLGHPDQNPEVKPRLPAHVVVHENQYQELNLDDIQSYDQTMQAYYASR
TSNQKLSTWSQEVTGKLAGESRPHILPYLNSKGLAKR
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000001111111110000
0000000000000000000000000
>O84385_3del_23_256
CLKEGGDSNSEKFIVGTNATYPPFEFVDKRGEVVGFDIDLAREISNKLGKTLDVREFSFDALILNLKQ
HRIDAVITGMSITPSRLKEILMIPYYGEEIKHLVLVFKGENKHPLPLTQYRSVAVQTGTYQEAYLQSLSE
VHIRSFDSTLEVLMEVMHGKSPVAVLEPSIAQVVLKDFPALSTATIDLPEDQWVLGYGIGVASDRPAL
ALKIEAAVQEIRKEGVLAELEQKWGLNN
1111111111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>P37528_2nv0_0_195
MLTIGVLGLQGAVREHIHAIEACGAAGLVVKRPEQLNEVDGLILPGGESTTMRRLIDTYQFMEPLREF
AAQGKPMFGTCAGLIILAKEIAGSDNPHLGLLNVVVERNSFGRQVDSFEADLTIKGLDEPFTGVFIRA
PHILEAGENVEVLSEHNGRIVAAKQGQFLGCSFHPELTEDHRVTQLFVEMVEEYKQKALV
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001
>Q72G28_3hu5_1_193
TRNRTVALAIIDMQNDFVLPGAPACVEGAMGTVPVIAGLLAKARAEGWMVLHVVRAHRADGSDAE
KSREHLFLEGGGLCVAGTPGAEIVAGLEPASGETVLVKTRFSAFMGTECDMLLRRRGVDTLLVSGTQY
PNCIRGTAVDAFALDYDVVVVTDACSARTPGVAESNINDMRAMGITCVPLTALDDVLARR
1100000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001
>O57413_1kuf_189_391
EQQRFPQRYIKLAIVVDHGMYTKYSSNFKKIRKRVHQMVSNINEMCRPLNIAITLALLDVWSEKDFI
TVQADAPTTAGLFGDWRERVLLKKKNHDHAQLLTDTNFARNTIGWAYVGRMCDEKYSVAVVKDHS
SKVFMVAVTMTHELGHNLGMEHDDKDKCKCDTCIMSAVISDKQSKLFSDCSKDYYQTFLTNDNPQC
ILNAP
1100000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q869A5_3dwv_1_175
LRSSRKKMSAASSIFDFEVLDADHKPYNLVQHKGSPLLIYNVASKCGYTKGGYETATALYNKYKSQGF

TVLAFPCNQFGGQEPGTEEEIKEFVCTKFKAEFPIMAKINVNGENAHPLYEYMKKTKPGILATKAIK
WNFTSFLIDRDGVPVERFSPGASVKDIEEKLIPLLGSARL
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111
>P09237_2y6d_94_266
YSLFPNSPKWTSKVVTYRIVSYTRDLPHITVDRLVSKALNMWGKEIPLHFRKVVWGTADIMIGFARG
AHGDSYPFDGPGNTLAHAFAPGTGLGGDAHFDEDERWTDGSSLGINFLYAATHELGHSLGMGHSSD
PNAVMYPTYGNGDPQNFKLSQDDIKGIQKLYGKRSNSRKK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111100000000000000011111111
>Q16763_1zdn_0_155
MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVFPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGK
DFPASPPKGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLL
LENYEEYAARARLLTEIHG
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>Q381H3_4fky_0_152
MPSERTFIAVKPDGVQRNLVGEIIKRFENKGYKLVGLKLLQPTEEQAKQHYIDLASKPFYSGLVSYFSS
GPIVGMVWEGLGVVKGGRVLLGATNPADSLPGTIRGDFAVDVGRNVCHGSDSVESAKREIAFWFKAE
ELVSWTSHSVKQIYERA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001
>A0R291_3o0m_0_144
MSCVFCAIVSGDAPAIRIYEDENFLGILDIRPFTRGHTLVIPKTHTVDLTDTPPETVAGMAAVGQRIAR
AARESGLHADGNNIAINDGKAAFQTVFHIHLHVVPRRNGDKLSFAKGMVMRRDPDREESGRLLRA
ALAQLDSAEQD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111110000000000000000000000
011
>P0A6T9_3a8k_0_128
MSNVPAELKYSKEHEWLRKEADGTYTVGITEHAQELLGDMVFVDLPEVGATVSAGDDCAVAESVKA
ASDIYAPVSGEIVAVNDALSDSPELVNSEPYAGGWIFKIKASDESELESLLDATAYEALLEDE
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>Q15599_2ocs_8_90
PRLCRLVRGEQGYGFHLHGEKGRRGQFIRRVEPGSPAEAAALRAGDRLVEVNGVNVEGETHHQVVQ
RIKAVEGQTRLLVVDQE
00000000000000000001110000000000000000000000000000000000000000000000
000000000000
>Q9Y5K6_3u23_108_167

KKRQCKVLFEYIPQNEDELELKVGDIIDINEEVEEGWWSGTLNNKLGLFPSNFVKELEVT
11000000000000000000000000000000000000000000000000000011
>Q8GCC7_2ogt_0_497
MERTVVETRYGRLRGEMNEGVFVWKGIPYAKAPVGERRFLPPEPPDAWDGVREATSFGPVVMQPS
DPIFSGLLGRMSEAPSEDGLYLNIWSPAADGKKRPVLFWIHGGAFLFGSGSSPWYDGTAFAKHGDVV
VVTINYRMNVFGFLHLGDSFGEAYAQAGNLGILDQVAALRWVKENIAAFGGDPDNITIFGESAGAAS
VGVLLSLPEASGLFRRAMLQSGSGSLLLRSPETAMAMTERILDKAGIRPGDRERLLSIPAEELLRAALS
LGPGVMYGPVVDGRVLRRHPIEALRYGAASGIPILIGVTKDEYNLFTLTDPSWTKLGEKELLDRINRE
VGPVPEEAIRYYKETAEPSAPTWQTWLRIMTYRVFVEGMLRTADAQAAQGADVYMYRFDYETPVF
GGQLKACHALELPFVFHNLHQPGVANFVGNRPEREAIANEMHYAWLSFARTGDPNGAHLPEAWPA
YTNERKAAFVFSAASHVEDDPFGRERAAWQGR
11000000000000000000000000000000000000000000000000000000000000111111
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11100000000000000000000000000000000000000011111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
1
>Q13WK3_2v7b_0_528
MEALLEKAANPPAATVEAPPALFNFAAYLFRLNETRAGKTAYIDDTGSTTYGELEERARRFASALRTL
GVHPEERILLVMLDTVALPVAFLGALYAGVVPVVANTLLTPADYVYMLTHSHARAVIASGALVQNVTQ
ALESAEHDGCQLIVSQPRESEPRLAPLFEELIDAAAPAAKAAATGCDDIAFWLYSSGSTGKPKGTVHT
HANLYWTAELYAKPILGIAENDVVFSAAKLFFAYGLGNGLTFPLSVGATAILMAERPTADAIFARLVEH
RPTVFYGVPTLYANMLVSPNLPARADVAIRICTSAGEALPREIGERFTAHFGCEILDGIGSTEMLHIFLS
NRAGAVEYGTTGRPVPGYEIELRDEAGHAVPDGEVGDLYIKGPSAAVMYWNNREKSRATFLGEWIR
SGDKYCRLPNGCYVYAGRSDDMLKVSGQYVSPVEVEMVLVQHDAVLEAAVVGVDHGGLVKTRAFVV
LKREFAPSEILAEELKAFVKDRLAPHKYPRDIVFVDDLPKTATGKIQRFKLREQ
11111111111111111111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
11000000001111110000000000000000000000000011111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000001111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001
>P77872_1qwm_0_504
MVNKDVKQTTAFGAPVWDDNNVITAGPRGPVLLQSTWFLEKLAAFDRERIPERVVHAKGSGAYGTF
TVTKDITKYTKAKIFSKVGKKTECFFRFSTVAGERGSADAVRDPRGFAMKYYTEEGNWDLVGNNTP
VFFIRDAIKFPDFIHTQKRDPQTNLPNHDMVWDFWSNVPESLYQVTWVMSDRGIPKSFRHMDGFG
SHTFSLINAKGERFWVKFHFHTMQGVKHLTNEEAAEVRKYDPDSNQRDLFNAIARGDFPKWKLSI
QVMPEEDAKKYRFHPFDVTKIWYLQDYPLMEVGIVELNKNPENYFAEVEQAAFSPANVVPGIGYSP
DRMLQGRLFSYGDTHRYRLGVNYPQIPVNKPRCPFHSSSRDGYMQNGYYGSLQNYTPSSLPGYKED
KSARDPKFNLAHIEKEFEVWNWDYRADDSDYYTQPGDYYRSLPADEKERLHDTIGESLAHVTHKEI

VDKQLEHFKKADPKYAEGVKKALEKHQKMMKDMHGKDMHHTKKKK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111111111111111
>Q9ZGI4_3qp9_919_1422
GSVQDSWRYRIDWKRLAVADASERAGLSGRWLVVVPEDRSAEAAPVLAALSGAGADPVQLDVSPLG
DRQRLAATLGEALAAAGGAVDGVLSLLAWDESAHPGHPAPFTRGTGATLTLVQALEDAGVAAPLWC
VTHGAVSVGRADHVTSPAQAMVWGMGRVAALEHPERWGGLIDLPSDADRAALDRMTTVLAGGTG
EDQVAVRASGLLARRLVRASLPAHGTASPWWQADGTVLVTGAEEPAAAEAARRLARDGAGHLLLHT
TPSGSEGAEGTSGAAEDSGLAGLVAELADLGATATVVTCDLTDAEAAARLLAGVSDAHPLSAVLHLPP
TVDSEPLAATDADALARVVTAKATAALHLDRLLREAAAAGGRPPVLVLFSSVAAIWGGAGQGAYAAG
TAFLDALAGQHRADGPTVTSVAWSPWEGSRVTEGATGERLRRLGLRPLAPATALTALDTALGHGDT
AVTIADVDWSSFAPGFTTARPGTLLADLPEARRALDEQQST
11000000000000000011111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000110000000000000000000000000000000000000000011111111111111110000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111111111
>Q0PQZ5_3dc8_0_483
MSTVIKGGTIVTADLTYKADVKVEGGRIVEIGPNLSGAETLDATGCYVMPGGIDPHTHLEMPFMGTY
SSDDFESGTRAALAGGTTMVVDFALPSPGQSLLEALTMWDNKSTRANCDYSFHMAITWWGEQVFN
EMETIVKDKGINTFKHFMAYKGALMVDDDEMFSSFQRCAALGALPLVHAENGDVVAQLQAKLLAE
GNSGPEAHAYSRPAEVEGEAANRAIMIADMAGCPVYIVHTSCEQAHEAIRRARAKGMRVFGEPLIQH
LTLDETEYFDKDWDHAARRVMSPPFRNKLHQDSLWAGLASGSLQVVATDHCAFTTEQKRFGVGDF
TRIPNGTGGLEDRMPMLWTYGVATGRITMNEFVAVTSTNIAKILNIYPKKGAILVGADADLVVWDPK
RSKTISAKTQQSAIDYNVFEGKTVTGLPRFTLTRGVVSIEEGTVKTQEGHGEFVRRDPFPAVSTALST
WKEVTAPRAVQRSGIPASGV
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>Q8P8H1_4dzh_1_448
DPLMTNAPPEPCDLLIEAGYVVPIEPHAVVLEDHAVAVSNGVIVAVLPTADARVRFAPARTVSRPDAA

LMPGLVNAHTHNPMTLLRGVADDLPLMVWLQQHIWPVEAAVIGPEFVADGTTLAIAEMLRGGTTC
VNENYFFADVQAAVYKQHGFRALVGAVIIDFPTAWASSDDEYFARAGELHDQWRDDPLISTAFAPHA
PYTVNDANFERVRMLADQLDMPVHLHTHETAQEVADSVAQYGQRPLARLDRLGLVNDRLIAVHMT
QLTEAEIHLCAERGVSVVHCPESNLKLASGFCPACALQRASVNLAIGTDGCASNNDLDMFSENRTAAI
LAKAVANDATALDAATTLRAATLGGARALGFGDRIGSIEVGKQADLVCVDLSALETQPLHHVLSQLIY
AAGRHQVTDVWIAGKPKLVQRELIDMDTAALVANARQWRDRIRTVRA
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q2L4H3_2j66_0_427
MKKGGDLRMNLDQAEITALTKRFETPFYLYDGDFIEAHYRQLRSRTNPAIQFYLSLKANNNIHLAKL
FRQWGLGVEVASAGELALARHAGFSAENIIFSGPGKKRSELEIAVQSGIYCIIAESVEELFYIEELAEKE
NKTARVAIRINPDKSFGSTAIKMGGVPRQFGMDESMLDAVMDAVRSLQFTKFIGIHVYTGTQNLNTD
SIIESMKYTVDLGRNIYERYGIVCECINLGGGFGVPYFSHEKALDIGKITRTVSDYVQEARDTRFPQTT
FIIESGRYLLAQAAVYVTEVLYRKASKGEVFVIVDGGMHHHAASTFRGRSMRSNYPMEYIPVREDSGR
RELEKVTIAGPLCTPEDCLGKDVHVPALYPGDLVCVLNSGAYGLSFSPVHFLGHPTPIEILKRNGSYEL
IRRKGTADDIVATQLQTE
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00011000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011000000000000000000000000000000000000000000000000000
00000000000000000000000111111111110000011111111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000011111111111
>Q9WYC6_2p2w_0_366
MIQKGLEGVKICESSICYLDGINGRLYYRGIPVEELAEKSTFEETAYFLWYGKLPTKSELEEFKRKMAD
YRELPAEALGILYHLPKNLHYIDVLKIFLSIHGSMDGNDEDLREKAIRVASVFPTILAYYYRYSKGKELI
RPRKDLSHVENFYYMMFGERNEKIRLLESAFILLMEQDINASTFAALVIASTLSDLYSCIVGALGALKG
PLHGGASEKVPPMLEEIGSEDRVEEFVQKCLKEKRKIMGFGHRVYKTYDPRAVFLKRVLQEHFPDSK
LFRIASKLEEYIVSNKIKNIYPNVDLYSSVLFEELGFPRNMFTALFATARVVGWTAHVIEYVSDNKLIR
PTSEYVGPMDVEYIPIERRDENG
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000000011
>Q94FV7_3a5r_0_383
MATEEMKKLATVMAIGTANPPNCYYQADFPDFYFRVTNSDHLINLKQKFKRLCENSRIEKRYLHVT
EEILKENPNIAAYEATSLNVRHKMQVKGVAELGKEAALKAIKEWGQPKSKITHLIVCCLAGVDMPGA

DYQLTKLLDLDPSVKRFMFYHLGCYAGGTVLRLAKDIAENNKGARVLIVCSEMTTTCFRGPSETHLD
SMIGQAILGDGAAAVIVGADPDLTVERPIFELVSTAQTIVPESHGAIEGHLLESGLSFHLYKTVPTLISN
NIKTCLSDAFTPLNISDWNSLFWIAHPGGPAILDQVTAKVGLEKEKLKVTRQVLKDYGNMSSATVFFI
MDEMRKKSLENGQATTGEGLEWGVLFGFGPGITVETVVLRSVPVIS
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001
>A0QV68_3sf6_0_398
MTNSAVAQPRSQRRGADDLIGINAVLSAEEREIRDTVRSVVQRRIKPHIASWYEDGELPARELAVELG
ELGLLGMHLKGYGCAGMSAVAYGLACLELEAGDSGIRSLVSVQGSLAMYAIHAFGSDEQKDQWLPDM
ASGHRIGCFGLTEPDHGSDPAGMRTRATRSGDDWILTGTKMWITNGSVADVAVVWARTDEGIRGFV
VPTDTPGFTANTIKSKMSLRASVTSELVLDGVRLPDSARLPGATSLGAPLRCLNEARFGIVFGALGAA
RDCLETALAYACSREQFDRPIGGFQLTQQKLADMTLEYGKGFLLALHLGRQKDAGELAPEQVSLGKL
NNVREAIEIARTARTVLGASGITGEYPVMRHANNLESVLTYEGTSEMHTLIIGQALTGVGAFR
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>I4IY26_4awe_0_384
KVPKGFVTTEGDHFKLDGKDFYFAGSNAYYFPFNDQPDIEKGMTAARAAGLTVFRTWGFNDKNRT
YIPTGLPQYGNEGAGDPTNTVFQWFEADGTQTIDVSPFDKVVDSATKTGIKLIVALTNNWADYGGM
DVYTVNLGGKYHDDFYTVPKIKEAFKRYVKAMVTRYRDSEAILAWELANEARCGADGTRNLPRSEK
GCTTETVTGWIEEMSAYVKSLDGNHLVTWGGEGGFNRGEDEEDGFYNGADGGDFDRELGLRNVDF
GTMHLYPDWWSKSIEWSNQWIHDHAASGRAANKPVVLEEYGWMTDKGRLDQLGQVKNETRLEV
VGGWQKIAIQEKLAGDMYWQFGYGGYSYGRNHDDSFTIYLEDDEAKELVYKHAKKVQKLN
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>P24735_2wzz_26_396
GEAPADRLKALVDAAVQPVMKANDIPGLAVAISLKGEPHYFSYGLASKEDGRRVTPETLFEIGSVSKT
FTATLAGYALTQDKMRLDDRASQHWPALQGSRFDGISLLDLATYTAGGLPLQFPDSVQKDQAQIRDY
YRQWQPTYAPGSQRLYSNPSIGLFGYLAARSLGQPFERLMEQQVFPALGLEQTHLDVPEAALAQYAQ
GYGKDDRPLRVGPGPLDAEGYGVKTSAADLLRFVDANLHPERLDRPWAQALDATHRGYYKVGDMT
QGLGWEAYDWPISLKRLQAGNSTPMALQPHRIARLPAPQALEGQRLLNKTGSTNGFGAYVAFVPGR
DLGLVILANRNYPNAERVKIAYAILSGLEQQGKVPLKR
11000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000111111111
>P53704_2poc_346_712
MKGPYKHFMQKEIFEQPDSAFNTMRGRIDFENCVVTLGGLKSWLSTIRRCRRIIMIACGTSYHSCLA
TRSIFEELTEIPVSVELASDFLDRRSPVFRDDTCVFVSQSGETADSILALQYCLERGALTVGIVNSVGSS
MSRQTHCGVHINAGPEIGVASTKAYTSQYIALVMFALSLSNDSISRKGRHEEIIKGLQKIPEQIKQVLKL
ENKIKDLCNSSLNDQKSLLLLGRGYQFATALEGALKIKEISYMHSEGVLAGELKHGILALVDEDLPIIAF
ATRDSLFPKVMSAIEQVTARDGRPIVICNEGDAIISNDKVHTTLEVPETVDCLQGLLNVIPLQLISYWL
AVNRGIDVDFPRNLAKSVTVE
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
111111111111
>Q0PAS0_3qm3_0_353
MGVLDIVKAGVISGDELNKIYDYAKAEGFAIPAVNVVGTDSINAVLEAAKKVNSPVIIQFSNGGAKFYA
GKNCPNGEVLGAISGAKHVHLLAKAYGVPVILHTDHAARKLLPWIDGLIEANAQYKKTHGQALFSSH
MLDLSEESLEENLSTCEVYLQKLDALGVALEIELGCTGGEEDGVDNTGIDNSKLYTQPEDVALAYERL
GKISDKFSIAASFGNVHGVYKPGNVSLQPEILKNSQKFVKDKFALNSDKPINFVFHGGSGSELKDIKN
AVSYGVIKMNIDTDTQWAFWDGVREYELKNRAYLQGQIGNPEGDDKPNKKYYDPRVWLRSGEESM
IKRLEIAFEDLNCINKN
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111000000000000000000000000000000000
00000000001111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>Q91H09_3pvd_221_536
SKTKAFTIPVLKISEMTNSRFPVPVDQMYTSRSEGIVVQPQNGRATIDGELLGTTLVSPVSVCNFKGN
LQAEVPGQHQLYQLQLTNLDGSPIDPTDDTPGPLGCPDFTGLLYGVASQRGPGDATRAHEARIDTGS
DTFAPKIGQVRFYSTSSDFETNQPTHFTPIGIYIEGNSSDFNQWQLPRYGGHLANNNHLAPAVSPLFP
GEQILFFRSFIPGASGHTNGEMDCLLPQEFVQHFYQEAATARSEVALLRFVNPDTGRALFESKLHKQ
GFMTIASSGDHPIIMPTNGYFRFEAWVNQFYSLAPVGTGSGRRRIQ
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111
>Q4QEW7_4ef8_0_319
MSLQVNLLNNTFANPFMNAAGVMCTTTEELVAMTESASGSLVSKSCTPALREGNPTPRYQALPLGSI
NSMGLPNNGFDFYLAYAAEQHDYGKKPLFLSMSGLSMRENVEMCKRLAAVATEKGVILELNLSCPN

VPGKPQVAYDFDAMRQCLTAVSEVYPHSFGVKMPPYFDFAHFDAAAEILNEFPKVQFITCINSIGNGL
VIDAETESVVIKPKQGFGGLGGRYVLPTALANINAFYRRCPGKLIFGCGGVYTGEDAFLHVLAGASMV
QVGTALQEEGPSIFERLTSELLGVMAKKRYQTLDEFRGKVRTLDGTAESTR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111111
>P08176_1xkg_18_319
RPSSIKTFEEYKKAFNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDLSLDEFKNRFLMSAEAF
EHLKTQFDLNAETNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRNQSL
DLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRRPNAQRFGISNYCQIYPPN
VNKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTIIQRDNGYQPNYHAVNIVGYSNAQGVDYWIVRNS
WDTNWGDNGYGYFAANIDLMMIEEYPYVVIL
11100000000000000000000000000000000000000000000000000000000000000000
00000111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>Q9NQU5_2c30_382_680
GVVTHEQFKAALRMVVDQGDPRLLLDSYVKIGEGSTGIVCLAREKHSGRQVAVKMMDLRKQQRREL
LFNEVVIMRDYQHFNVVEMYKSYLVGEELWVLMEFLQGGALTDIVSQVRLNEEQIATVCEAVLQALA
YLHAQGVIHRDIKSDSILLTLDGRVKLSDFGFCAQISKDVPKRKSLVGTPYWMAPEVISRSLYATEVDI
WSLGIMVIEMVDGEPPYFSDSPVQAMKRLRDSPPPKLKNSHKVSPVLRDFLERMLVRDPQERATAQ
ELLDHPFLLQTGLPECLVPLIQLYRKQTSTC
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000001111111
>Q66D48_3odg_0_286
MTTVNSNINVDADFNELPFQAVKYIQKIKPGFKPQIAFILGSGLGDLVDQITNDTTISYADIPGFPVSSV
HGHAGELVLGDLCGVPVMCMKGRGHFYEGKGMSIMTNPVRTFKLMGCEFLFCTNAAGSLRPEVLP
GSVVMLKDHINTMPGTPLVGPNDDRFGPRFFSLANAYDKDLRADMAKIAQQLDIPLTEGVFVSYPG
PCFETPAEIRMMQIIGGDVVGMSVVPEVLSAAHCGLKVIALTAITNLAEGLSDVVLSHEQTLKFAKVA
SVNFTKLIEAFLKSKALR
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
011
>Q63X76_3uzu_0_274
MSNSRQHQGHFARKRFGQNFLVDHGVIDAIVAAIRPERGERMVEIGPGLGALTGPVIARLATPGSPLH
AVELDRDLIGRLEQRFGELLELHAGDALTFDFGSIARPGDEPSLRIIGNLPYNISSPLLFHLMSFAPVVI

DQHFMLQNEVVERMVAEPGTKAFSRLSVMLQYRYVMDKLIDVPPESFQPPPKVDSAIVRMIPHAPH
ELPAVDPAVLGEVVTAAFSQRRKMLRNTLGGYRDLVDFDALGFDLARRAEDIGVDEYVRVAQAVASA
RASG
1111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>Q63226_2v3u_439_812
GVVLRVVTVLEEPFVMVSENVLGKPKKYQGFSIDVLDALSNYLGFNYEIYVAPDHKYGSPQEDGTWN
GLVGELVFKRADIGISALTITPDRENVVDFTTRYMDYSVGVLLRRESSIQSLQDLSKQTDIPYGTVLDS
AVYQHVRMKGLNPFERDSMYSQMWRMINRSNGSENNVLESQAGIQKVKYGNYAFVWDAAVLEYV
AINDPDCSFYTVGNTVADRGYGIALQHGSPYRDVFSQRILELQQSGDMDILKHKWWPKNGQCDL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111100000000000000000000000000000000000000000000
1110000000000000000000000000000000000000001111
>P0A078_1qxz_0_251
MIVKTEEELQALKEIGYICAKVRNTMQAATKPGITTKELDNIAKELFEEYGAISAPIHDENFPGQTCIS
VNEEVAHGIPSKRVIREGDLVNIDVSALKNGYYADTGISFVVGESDDPMKQKVCDVATMAFENAIAKV
KPGTKLSNIGKAVHNTARQNDLKVIKNLTGHGVGLSLHEAPAHVLNYFDPKDKTLLTEGMVLAIEPF
ISSNASFVTEGKNEWAFETSDKSFVAQIEHTVIVTKDGPILTTKIEEE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000111
>Q99WD9_1p99_18_279
GSNNDKKVTIGVASNDTKAWEKVKELAKKDDIDVEIKHFSDYNLPNKALNDGDIDMNAFQHFAFL
DQYKKAHKGTKISALSTTVLAPLGIYSDKIKDVKKVKDGAKVVIPNDVSNQARALKLLEAAGLIKLKK
DFGLAGTVKDITSNPKHLKITAVDAQQTARALSDVDIAVINNGVATKAGKDPKNDPIFLEKSNSDAVK
PYINIVAVNDKDLDNKTYAKIVELYHSKEAQKALQEDVKDGEKPVNLSKDEIKAIETSLAK
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001
>D0VWV7_2b94_0_244
MEEEMQRHIKLTPSQTTPVVLVVGDPGRVDKVKMLCDSYVDLAYNREYKSVECTYKGQKFLCVSHG
VGSAGCAICFEELMNNGAKVIIRAGSCGSLQPTQMKRGDICICNAAVREDRVSHLMIYSDFPAVADFE
VYDTLNKVAQELEVPVFNGISLSSDLYYPHKIIPTRLEDYSKANVAVVEMEVATLMVMGTLRKVKTG
GIFIVDGCPLKWDEGDFDNNLVPEKLENMIKISLETCARLAKKY
0000000000000000000000000000000000000000000011100000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
1111111000000000000000000000000
>P04190_2uyx_29_256

ASQKVEKTVIKNETGTISISQLNKNVWVHTELGSFNGEAVPSNGLVLNTSKGLVLVDSSWDDKLTKE
LIEMVEKKFQKRVTDVIITHAHADRIGGIKTLKERGIKAHSTALTAELAKKNGYEEPLGDLQTVTNLK
FGNMKVETFYPGKGHTEDNIVVWLPQYNILVGGCLVKSTSAKDLGNVADAYVNEWSTSIENVLKRY
RNINAVVPGHGEVGDKGLLLHTLDLLK
11111100000000000000000000000000001111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>Q97R43_3mms_0_229
MKIGIIAAMPEELAYLVQHLDNAQEQVVFGNTYHTGTIASHEVVLVESGIGKVMSAMSVAILADHFQ
VDALINTGSAGAVAEGIAVGDVVIADKLAYHDVDVTAFGYAYGQMAQQPLYFESDKTFVAQIQKSLSQ
LDQNWHLGLIATGDSFVAGNDKIEAIKSHFPEVLAVEMEGAAIAQAAHALNLPVLVIRAMSDNANH
EANIFFDEFIIEAGRRSAQVLLTFLKALD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111100000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001
>P12295_2eug_0_228
MANELTWHDVLAEEKQQPYFLNTLQTVASERQSGVTIYPPQKDVFNAFRFTELGDVKVVILGQDPY
HGPGQAHGLAFSVRPGIAIPPSLLNMYKELENTIPGFTRPNHGYLESWARQGVLLLNTVLTVRAGQA
HSHASLGWETFTDKVISLINQHREGVVFLLWGSHAQKKGAIIDKQRHHVLKAPHPSPLSAHRGFFGC
NHFVLANQWLEQRGETPIDWMPVLPAESE
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>Q5L3C9_3av3_0_209
MKRLAVFASGSGTNFQAIVDAAKRGDLPARVALLVCDRPGAKVIERAARENVPAFVFSPKDYPSKAA
FESEILRELKGRQIDWIALAGYMRLIGPTLLSAYEGKIVNIHPSLLPAFPGKDAIGQAYRAGVSETGVT
VHYVDEGMDTGPVIAQRVVPIVPGEPIEALEERIHQVEHELYPTVLRMLLGEKEQQEERIENDGSETS
IDQRVQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111111111111111111
>Q9KPQ8_3ot1_0_204
MEQGMSKRILVPVAHGSEEMETVIIVDTLVRAGFQVTMAAVGDKLQVQGSRGVWLTAEQTLEACSA
EAFDALALPGGVGGAQAFADSTALLALIDAFSQQGKLVAAICATPALVFAKQQKFVGARMTCHPNFFD
HIPSERLSRQRVCYYATQHLLTSQGPGTALEFALAMIALLAGVELAQHVAAPMVLHPQQLTELSGFID
AQS
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>P76268_1ysp_87_262
DLIRSADIQMRELSRLTKETIHLGALDEDSIVYIHKIDSMYNLRMYSRIGRRNPLYSTAIGKVLLAWRD

RDEVKQILEGVEYKRSTERTITSTEALLPVLDQVREQGYGEDNEEQEEGLRCIAVPVFDRFGVVIAGL
SISFPTLRFSEERLQEYVAMLHTAARKISAQMGYHDYPF
00000000000000000000000000000000000000001111111100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111
>Q81KC7_3o7m_0_182
MNIEIKDTLISEEQLQEKVKELALQIERDFEGEEIVVIAVLKGSFVFAADLIRHIKNDVTIDFISASSYGN
QTETTGKVKLLKDIDVNITGKNVIVVEDIIDSGLTLHFLKDHFFMHKPKALKFCTLLDKPERRKVDLT
AEYVGFQIPDEFIVGYGIDCAEKYRNLPFIASVVTEESYNLKSR
10000000000000000000000000000000000000000000000000000000000000000000001
11111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001111111111
>P66034_2c94_0_159
MKGGAGVPDLPSLDASGVRLAIVASSWHGKICDALLDGARKVAAGCGLDDPTVVRVLGAIEIPVVAQ
ELARNHDAVVALGVVIRGQTPHFDYVCDAVTQGLTRVSLDSSTPIANGVLTTNTEEQALDRAGLPTSA
EDKGAQATVAALATALTLRELRAHS
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>Q6NJA6_2g2c_0_163
MHIKSAIIVVSDRISTGTRENKALPLLQRLMSDELQDYSYELISEVVVPEGYDTVVEAIATALKQGARF
IITAGGTGIRAKNQTPEATASFIHTRCEGLEQQILIHGSTHTHLAGLSRGIVGVTGRDDHAALIVNAPSS
SGGITDTWAVISPVIPNIFEGLDAS
00000000000000000000000000000001111000000000000000000000000000000000000
00000000000000000000000000000000000011111110000000000000000000000000000
000000000000000000001
>Q9I2W7_3c8o_0_161
MHYVTPDLCDAYPELVQVVEPMFSNFGGRDSFGGEIVTIKCFEDNSLVKEQVDKDGKGKVLVVDGGG
SLRRALLGDMLAEKAAKNGWEGIVVYGCIRDVDVIAQTDLGVQALASHPLKTDKRGIGDLNVAVTFG
GVTFRPGEFVYADNNGIIVSPQALKMPE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001
>A6L2G9_4grf_251_391
ATGSVAPAITGIDLKGNSVSLNDFKGKYVLVDFWFAGCSWCRKETPYLLKTYNAFKDKGFTIYGVSTD
RREEDWKKAIEEDKSYWNQVLLQKDDVKDVLESYCIVGFPHIILVDPEGKIVAKELRGDDLYNTVEK
FVNGAK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111
>P02746_2wnv_117_252
ATQKIAFSATRTINVPLRRDQTIRFDHVITNMNNNYEPRSGKFTCKVPGLYYFTYHASSRGNLCVNL
MRGRERAQKVVTFCDYAYNTFQVTTGGMVLKLEQGENVFLQATDKNSLLGMEGANSIFSGFLLFPD
MEA
10000000000010000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000011
>B2HDU6_4f3w_0_130
MPDIDWKQLRDKATQVAAGAYAPYSRFPVGAAALVDDGRVVTGCNVENVSYGLALCAECGVVCALH
ATGGGRLVALACVDGRGAPLMPCGRCRQLLFEHGGPELLVDHLAGPRRLGDLLPEPFHADLTGEP
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000111111111
>A7YYL1_2uz2_18_147
TEAQKCNLQGQWRNKLGSNLIIESVSQNGEFTGTYFTSVSLTNSTIRISPLTGYQKLTEKPTFGFTVH
WAFSDSITVWTGQCFLNEKGEEILHTMWLLRSSQEKEQDNWTGTRVGGNTFTRLSKKKIRKE
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001111111
>B2C3H7_3suj_19_144
AVKLSYDEAYDNPSSSLLSVTCSDGENGLYPKYRTFGDLPGFPCIGGSSDIAGYNSPNCGSCYQLTYSSA
HTTPKSIYMVAIDRSAEGFTASKQAMDDLTNKRAEELGTVNVDVRKVDFSRCERKS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111
>Q9R638_1gyo_0_108
LDVPCKVVITAPEGEDPHPRFGKVEMSHAKHRNVSCVSCHHMFDGCGDFQKCADCHIDRDDRSYE
RGFYKAWHSESEISCRGCHKAMKAKNEQTGPIGCLQGCHEAAQK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111
>P07515_1ptf_0_87
MEKKEFHIVAETGIHARPATLLVQTASKFNSDINLEYKGKSVNLKSIMGVMSLGVGQGSDVTITVDGA
DEAEGMAAIVETLQKEGLAE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001
>P12111_1knt_3107_3164
ETDICKLPKDEGTCRDFILKWYYDPNTKSCARFWYGGCGGNENKFGSQKECEKVCAPV
10000000000000000000000000000000000000000000000000000011
>O33819_1rm6_0_768
MSPKLPQHGTVGVRTPLVDGVEKVTGKAKYTADIAAPDALVGRILRSPHAHARILAIDTSAAEALEGV
IAVCTGAETPVPFGVLPIAENEYPLARDKVRYRGDPVAAVAAIDEVTAEKALALIKVDYEVLPAYMTP
KAAMKAGAIALHDDKPNNILREVHAEFGDVAAAFAEADLIREKTYTFAEVNHVHMELNATLAEYDP
VRDMLTLNTTTQVPYYVHLKVAACLQMDSARIRVIKPFLGGGFGARTEGLHFEIIAGLLARKAKGTV
RLLQTREETFIAHRGRPWTEVKMKIGLKKDGKIAALALEATQAGGAYAGYGIITILYTGALMHGLYHI
PAIKHDAWRVYTNTPPCGAMRGHGTVDTRAAFEALLTEMGEELGIDSLKIRQINMLPQIPYVTMYA
QRVMSYGVPECLEKVKAASGWEERKGKLPKGRGLGIALSHFVSGTSTPKHWTGEPHATVNLKLDFD
GGITLLTGAADIGQGSNTMASQVAAEVLGVRLSRIRVISADSALTPKDNGSYSSRVTFMVGNASISAAE
ELKGVLVKAAAKKLDAREEDIEVIDEMFMVSGSQDPGLSFQEVVKAAMVDSGTITVKGTYTCPTEFQ
GDKKIRGSAIGATMGFCYAAQVVEASVDEITGKVTAHKVWVAVDVGKALNPLAVEGQTQGGVWMG
MGQALSEETVYDNGRMVHGNILDYRVPTIVESPDIEVIIVESMDPNGPFGAKEASEGMLAGFLPAIHE
AVYEAVGVRATDFPLSPDRITELLDAKEAAA
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>P21179_3pq6_0_752
MSQHNEKNPHQHQSPLHDSSEAKPGMDSLAPEDGSHRPAAEPTPPGAQPTAPGSLKAPDTRNEKL
NSLEDVRKGSENYALTTNQGVRIADDQNSLRAGSRGPTLLEDFILREKITHFDHERIPERIVHARGSA
AHGYFQPYKSLSDITKADFLSDPNKITPVFVRFSTVQGGAGSADTVRDIRGFATKFYTEEGIFDLVGN
NTPIFFIQDAHKFPDFVHAVKPEPHWAIPQGQSAHDTFWDYVSLQPETLHNVMWAMSDRGIPRSY
RTMEGFGIHTFRLINAEGKATFVRFHWKPLAGKASLVWDEAQKLTGRDPDFHRRELWEAIEAGDFP
EYELGFQLIPEEDEFKFDFDLLDPTKLIPEELVPVQRVGKMVLNRNPDNFFAENEQAAFHPGHIVPG
LDFTNDPLLQGRLFSYTDTQISRLGGPNFHEIPINRPTCPYHNFQRDGMHRMGIDTNPANYEPNSIN
DNWPRETPPGPKRGGFESYQERVEGNKVRERSPSFGEYYSHPRLFWLSQTPFEQRHIVDGFSFELSK
VVRPYIRERVVDQLAHIDLTLAQAVAKNLGIELTDDQLNITPPPDVNGLKKDPSLSLYAIPDGDVKGRV
VAILLNDEVRSADLLAILKALKAKGVHAKLLYSRMGEVTADDGTVLPIAATFAGAPSLTVDAVIVPCG
NIADIADNGDANYYLMEAYKHLKPIALAGDARKFKATIKIADQGEEGIVEADSADGSFMDELLTLMA
AHRVWSRIPKIDKIPA
11111111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>Q2PS28_4gin_0_583
MLMKRLFAASLMLAFSSVSSVRAEEAVKPGAPWWKSAVFYQVYPRSFKDTNGDGIGDFKGLTEKLD
YLKGLGIDAIWINPHYASPNTDNGYDISDYREVMKEYGTMEDFDRLMAELKKRGMRLMVDVVINHS
SDQHEWFKSSRASKDNPYRDYYFWRDGKDGHEPNNYPSFFGGSAWEKDPVTGQYYLHYFGRQQP
DLNWDTPKLREELYAMLRFWLDKGVSGMRFDTVATYSKTPGFPDLTPEQMKNFAEAYTQGPNLHR
YLQEMHEKVFDHYDAVTAGEIFGAPLNQVPLFIDSRRKELDMAFTFDLIRYDRALDRWHTIPRTLA
DFRQTIDKVDAIAGEYGWNTFFLGNHDNPRAVSHFGDDRPQWREASAKALATVTLTQRGTPFIFQG
DELGMTNYPFKTLQDFDDIEVKGFFQDYVETGKATAEELLTNVALTSRDNARTPFQWDDSANAGFT
TGKPWLKVNPNYTEINAAREIGDPKSVYSFYRNLISIRHETPALSTGSYRDIDPSNADVYAYTRSQDG
ETYLVVVNFKAEPRSFTLPDGMHIAETLIESSSPAAPAAGAASLELQPWQSGIYKVK
11111111111111111111111111111000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>P51852_2q5l_0_544
MKLAEALLRALKDRGAQAMFGIPGDFALPFFKVAEETQILPLHTLSHEPAVGFAADAAARYSSTLGVA
AVTYGAGAFNMVNAVAGAYAEKSPVVVISGAPGTTEGNAGLLLHHQGRTLDTQFQVFKEITVAQARL
DDPAKAPAEIARVLGAARALSRPVYLEIPRNMVNAEVEPVGDDPAWPVDRDALAACADEVLAAMR
SATSPVLMVCVEVRRYGLEAKVAELAQRLGVPVVTTFMGRGLLADAPTPPLGTYIGVAGDAEITRLVE
ESDGLFLLGAILSDTNFAVSQRKIDLRKTIHAFDRAVTLGYHTYADIPLAGLVDALLEGLPPSDRTTRG
KEPHAYPTGLQADGEPIAPMDIARAVNDRVRAGQEPLLIAADMGDCLFTAMDMIDAGLMAPGYYAG
MGFGVPAGIGAQCVSGGKRILTVVGDGAFQMTGWELGNCRRLGIDPIVILFNNASWEMLRTFQPESA
FNDLDDWRFADMAAGMGGDGVRVRTRAELKAALDKAFATRGRFQLIEAMIPRGVLSDTLARFVQG
QKRLHAAPRE
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000111110000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000011111111
>Q3M5Z3_2nyn_0_566
MKTLSQAQSKTSSQQFSFTGNSSANVIIGNQKLTINDVARVARNGTLVSLTNNTDILQGIQASCDYINN
AVESGEPIYGVTSGFGGMANVAISREQASELQTNLVWFLKTGAGNKLPLADVRAAMLLRANSHMRG
ASGIRLELIKRMEIFLNAGVTPYVYEFGSIGASGDLVPLSYITGSLIGLDPSFKVDFNGKEMDAPTALRQ
LNLSPLTLLPKEGLAMMNGTSVMTGIAANCVYDTQILTAIAMGVHALDIQALNGTNQSFHPFIHNSK
PHPGQLWAADQMISLLANSQLVRDELDGKHDYRDHELIQDRYSLRCLPQYLGPIVDGISQIAKQIEIEI
NSVTDNPLIDVDNQASYHGGNFLGQYVGMGMDHLRYYIGLLAKHLDVQIALLASPEFSNGLPPSLLG
NRERKVNMGLKGLQICGNSIMPLLTFYGNSIADRFPTHAEQFNQNINSQGYTSATLARRSVDIFQNYV
AIALMFGVQAVDLRTYKKTGHYDARACLSPATERLYSAVRHVVGQKPTSDRPYIWNDNEQGLDEHI
ARISADIAAGGVIVQAVQDILPCLH
1111111111111111111111100000000000000000000000000000000000000000000000000000
0001111111111111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111111100000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001111

>O52575_3c2u_0_537
MNIQNPVLKGFNPDPSIVRAGDDYYIATSTFEWFPGVQIHHSKDLVHWHLVAHPLSTTEFLDMKGN
PDSGGIWAPDLSYADGKFWLIYTDVKVVDGMWKDCHNYLTTAEDIKGPWSKPILLNGAGFDASLFH
DPSGKKYLVNMYWDQRVYHHNFYGIALQEYSVAEEKLIGKPEIIYKGTDIAYTEGPHLYYINDMYYL
MTAEGGTTYQHSETIARSKTIHGPYEIQPDYPLLSAWKEVHNPLQKCGHASLVETQNGQWYLAHLT
GRPLPAPAGFPSREREQHAFCPLGRETAIQKIEWQDGWPVVVGGQQGSLEVEAPDLPQQEWAPTYE
ERDDFDKDTLNINFQTLRIPFSEHLGSLTARPGFLRLYGRESLQSKFTQAHIARRWQSFNFDAGTSVE
FSPNSFQQMAGLTCYYNTENWSSIHVTWNEEKGRIIDLVTADNGTFSMPLAGAEIPIPDEVKTVHFK
VSVRGRIYQYAYSFDGETFHTLPIELPSWKLSDDYVRGGGFFTGAFVGINAIDITGTALPADFDYFTYK
ELD
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000001
>B2HT54_3qbp_0_473
MAHSAHDDADNDTEYRIEHDTMGEVRVPAKALWRAQTQRAVENFPISGRGLERAQIRALGLLKGA
CAQVNMDLGLLAPEKAEAIIAAAAEIADGQHDDQFPIDVFQTGSGTSSNMNTNEVIASIAGANGVAV
HPNDDVNMSQSSNDTFPTATHIAATEAAVSHLIPALEILQDALATKALEWQSVVKSGRTHLMDAVP
VTLGQEFSGYARQIEAGIERVRATLPRLGELAIGGTAVGTGLNAPEGFGVKVVSVLVSQTGLPQLRTAA
NSFEAQAARDGLVEASGALRTIAVSLTKIANDIRWMGSGPLTGLAEIQLPDLQPGSSIMPGKVNPVLP
EAVTQVAAQVIGNDAAVAWGGANGAFELNVYIPMMARNILESFTLLTNVSKLFAQRCIAGLTANAEH
LRELAESSPSIVTPLNSAIGYEEAAAVAKQALKERKTIRQTVIDRGLIGDKLSLEELDRRLDVLAMAKV
EAT
1111111111111111111111110000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000011
>Q65AT1_2ckf_0_453
MSGDTTLVDTVNASQSRQVFWDRDVYDLEIERIFSRAWLMLGHKSLLPKPGDFITTYMAEDKIILSH
QSDGTFRAFINSCTHRGNQICHADSGNAKAFVCNYHGWVYGQDGSLVDVPLESRCYHNKLDKQELA
AKSVRVETYKGFIFGCHDPEAPSLEDYLGEFRFYLDTIWEGGGAGLELLGPPMKSLLHCNWKVPVE
NFVGDGYHVGWTHAAALGQIGGPLAGLAGNRADIPFDDLGLQFTTRHGHGFGVIDNAAAAIHRKGD
GWNKYLEDTRGEVRRKFGADRERLYVGHWNGAIFPNCSFLYGTNTFKIWHPRGPHEIEVWTYTMV
PSDADPATKSAIQREATRTFGTAGTLESDDGENMSSATYVNRGVITRDGMMNSTMGVGYEGPHPVY
PGIVGISFIGETSYRGFYRFWVKEMIDAPDWASVKANDDNWDSVFTNRNFWNEKLNAAE
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000111111111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011
>Q8I501_3p1w_2_458
EHYDVIILGTGLKECILSGLLSHYGKKILVLDRNPYYGGETASLNLTNLYNTFKPKENIPSKYGENRHW
NVDLIPKFILVGGNLVKILKKTRVTNYLEWLVVEGSYVYQHQKKGFLTSEKFIHKVPATDMEALVSPL
LSLMEKNRCKNFYQYVSEWDANKRNTWDNLDPYKLTMLEIYKHFNLCQLTIDFLGHAVALYLNDD
YLKQPAYLTLERIKLYMQSISAFGKSPFIYPLYGLGGIPEGFSRMCAINGGTFMLNKNVVDFVFDDDNK
VCGIKSSDGEIAYCDKVICDPSYVMHLKNKIKKIGQVIRCICILSNPIPETNQTNSCQIIIPQNQLNRKSD
IYINLVSFQHGVTLKGKYIAIVSATVETNNPIKEIEKPLELLGTIEEKFVKISDLYVSTSKKPADNIFVTSS
YDATSHFETATNDLLQIWENLWGQKLNFDDLNTNADGEAPDFN
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111111111
>Q2SWD3_3ue9_0_447
MSASAVNVTPGRNVVVVGTQWGDEGKGKIVDWLTDHAQGVVRFQGGHNAGHTLIIGGKKTILRLIP
SGIMREGVACYIGNGVVLSPEALFKEIGELEEAGLSVRERLFISEATTLILPYHIAIDQAREARKGAGKI
GTTGRGIGPAYEDKVGRRALRVQDLFDARTFADRLRENLDFHNFVLTQYLGGAAVDFQATLDTMLGY
ADRLRPMVADVSRRLYEENHAGRNLLFEGAQGTLLDIDHGTYPFVTSSNCVAGAAAAGAGVGPQKL
NYILGITKAYCTRVGSGPFPSELYDADNPSRQDQIGITLANVGKEFGSVTGRPRRTGWLDAAALRRSI
QINGVSGLCMTKLDVLDGLDEVKLCVGYKIDGEDADLLPRGAAEVARCEPVYETFGGWKESTVGINS
WDALPANARAYLTRVQEVAGVPIDMVSTGPDRDETILLRHPFKV
11111110000000000000000000000000000000000000000000011111100000000000
00000000000000000000000000000000000000000000000000000000000111111111100
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>P30996_2a97_0_438
MPVAINSFNYNDPVNDDTILYMQIPYEEKSKKYYKAFEIMRNVWIIPERNTIGTNPSDFDPPASLKN
GSSAYYDPNYLTTDAEKDRYLKTTIKLFKRINSNPAGKVLLQEISYAKPYLGNDHTPIDEFSPVTRTTS
VNIKLSTNVESSMLLNLLVLGAGPDIFESCCYPVRKLIDPDVVYDPSNYGFGSINIVTFSPEYEYTFNDI
SGGHNSSTESFIADPAISLAHELIHALHGLYGARGVTYEETIEVKQAPLMIAEKPIRLEEFLTFGGQDL
NIITSAMKEKIYNNLLANYEKIATRLSEVNSAPPEYDINEYKDYFQWKYGLDKNADGSYTVNENKFN
EIYKKLYSFTESDLANKFKVKCRNTYFIKYEFLKVPNLLDDDIYTVSEGFNIGNLAVNNRGQSIKLNP
KIIDSIPDKGLVEKIVKFCKSVIPRKGTK
10000000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111111111
100000000000000000000000000000000011111111111000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000011111111111
1111111111111
>C4XAX5_3plr_0_387
MKITISGTGYVGLSNGVLIAQNHEVVALDIVQAKVDMLNQKISPIVDKEIQEYLAEKPLNFRATTDKH
DAYRNADYVIIATPTDYDPKTNYFNTSTVEAVIRDVTEINPNAVMIIKSTIPVGFTRDIKERLGIDNVIF
SPEFLREGRALYDNLHPSRIVIGERSARAERFADLLKEGAIKQDIPTLFTDSTEAEAIKLFANTYLALR
VAYFNELDSYAESQGLNSKQIIEGVCLDPRIGNHYNNPSFGYGGYCLPKDTKQLLANYESVPNNIIAAI
VDANRTRKDFIADSILARKPKVVGVYRLIMKSGSDNFRASSIQGIMKRIKAKGIPVIIYEPVMQEDEFF
NSRVVRDLNAFKQEADVIISNRMAEELADVADKVYTRDLFGND
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111111100000000000000000000000000000000000000000000000
000000000000000000000000000011
>P09955_3glj_15_415
HHSGEHFEGEKVFRVNVEDENDISLLHELASTRQIDFWKPDSVTQIKPHSTVDFRVKAEDILAVEDF
LEQNELQYEVLINNLRSVLEAQFDSRVRTTGHSYEKYNNWETIEAWTKQVTSENPDLISRTAIGTTF
LGNNIYLLKVGKPGPNKPAIFMDCGFHAREWISHAFCQWFVREAVLTYGYESHMTEFLNKLDFYVL
PVLNIDGYIYTWTKNRMWRKTRSTNAGTTCIGTDPNRNFDAGWCTTGASTDPCDETYCGSAAESE
KETKALADFIRNNLSSIKAYLTIHSYSQMILYPYSYDYKLPENNAELNNLAKAAVKELATLYGTKYTYG
PGATTIYPAAGGSDDWAYDQGIKYSFTFELRDKGRYGFILPESQIQATCEETMLAIKYVTNYVLGHL
111000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>Q2T0S5_4izo_0_397
MTALPNPNSPILPGAWLGMVGGGQLGRMFCFAAQAMGYRVAVLDPDPTSPAGAVADKHLRAAYDD
EAALAELAQLCDAVSTEFENVPAASLDFLAQSTFVAPAGRCVAIAQDRIAEKRFIAASGVPVAPHVVIE
SAAQLAALADADLAAVLPGILKTARLGYDGKGQVRVATAQEARDAYGSLGGVPCVLEKRLPLKYEVSA
LIARGANGASAVFPLAQNTHHGGILSLSVVPAPAASDALVRDAQQAAARIADSLDYVGVLCVEFFVLE
DGSLVANEMAPRPHNSGHYTVDACETSQFEQQVRAMTRLPLGSTRQHSPAAMLNVLGDVWFASGA
SGEPVTPPWDQVAAMPTARLHLYGKEEARVGRKMGHVNFTAATLDEAVAGATACARLLRIPLD
111111110000000000000000000000000000000000000000000000000000000000000000000000
000000000001110000000000000000000000000000000000000000000000000000000000000000
000000000000000001111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001111100000000000000000000

00000000000000000000000000000000000000001
>Q6D4Z0_3ly1_41_393
ETQPESAAFTAPSTDNPIRINFNENPLGMSPKAQAAARDAVVKANRYAKNEILMLGNKLAAHHQVE
APSILLTAGSSEGIRAAIEAYASLEAQLVIPELTYGDGEHFAKIAGMKVTKVKMLDNWAFDIEGLKAAV
AAYSGPSIVYLVNPNNPTGTITPADVIEPWIASKPANTMFIVDEAYAEFVNDPRFRSISPMITQGAENII
LLKTFSKIHAMAGMRVGYAVAHPTVIALMGRYVAGEKINFSGVDAALASMNDSAFITYSKKSNDVSR
QILLKALEDLKLPYLPSEGNFVFHQLVVPLKDYQTHMADAGVLIGRAFPPADNWCRISLGTPQEMQ
WVADTMREFRKKSWI
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>D0VP31_3vmw_36_361
SNGPQGYASMNGGTTGGAGGRVEYASTGAQIQQLIDNRSRSNNPDEPLTIYVNGTITQGNSPQSLIDV
KNHRGKAHEIKNISIIGVGTNGEFDGIGIRLSNAHNIIIQNVSIHHVREGEGTAIEVTDDSKNVWIDHN
EFYSEFPGNGDSDYYDGLVDMKRNAEYITVSWNKFENHWKTMLVGHTDNASLAPDKITYHHNYFN
NLNSRVPLIRYADVHMFNNYFKDINDTAINSRVGARVFVENNYFDNVGSGQADPTTGFIKGPVGWFY
GSPSTGYWNLRGNVFVNTPNSHLNSTTNFTPPYSYQVQSATQAKSSVEQHSGVGVIN
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>Q5LCX7_3fhl_1_351
EIIKTGLAAFGMSGQVFHAPFISTNPHFELYKIVERSKELSKERYPQASIVRSFKELTEDPEIDLIVVNT
PDNTHYEYAGMALEAGKNVVVEKPFTSTTKQGEELIALAKKKGLMLSVYQNRRWDADFLTVRDILA
KSLLGRLVEYESTFARYRNFIKPNTWKETGESGGGLTYNLGSHLIDQAIQLFGMPEAVFADLGILREG
GKVDDYFIIHLLHPSLAPNVKITLKASYLMREAEPRFALHGTLGSYVKYGVDKQEAALLAGEIPERPN
WGEESEQEWGLLHTEINGKEICRKYPGIAGNYGGFYQNIYEHLCLGQPLETHAQDILNVIRIIEAAYQ
SHRENKIVNLK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>P06608_1hfw_21_347
ADKLPNIVILATGGTIAGSAATGTQTTGYKAGALGVDTLINAVPEVKKLANVKGEQFSNMASENMTG
DVVLKLSQRVNELLARDDVDGVVITHGTDTVEESAYFLHLTVKSDKPVVFVAAMRPATAISADGPMN
LLEAVRVAGDKQSRGRGVMVVLNDRIGSARYITKTNASTLDTFKANEEGYLGVIIGNRIYYQNRIDKL
HTTRSVFDVRGLTSLPKVDILYGYQDDPEYLYDAAIQHGVKGIVYAGMGAGSVSVRGIAGMRKAMEK
GVVVIRSTRTGNGIVPPDEELPGLVSDSLNPAHARILLMLALTRTSDPKVIQEYFHTY
11100000000000001111111111111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>A8BZ95_3gbz_0_307
MSVSAAPSATSIDRYRRITKLGEGTYGEVYKAIDTVTNETVAIKRIRLEHEEEGVPGTAIREVSLLKEL
QHRNIIELKSVIHHNHRLHLIFEYAENDLKKYMDKNPDVSMRVIKSFLYQLINGVNFCHSRRCLHRD
LKPQNLLLSVSDASETPVLKIGDFGLARAFGIPIRQFTHEIITLWYRPPEILLGSRHYSTSVDIWSIACI
WAEMLMKTPLFPGDSEIDQLFKIFEVLGLPDDTTWPGVTALPDWKQSFPKFRGKTLKRVLGALLDD
EGLDLLTAMLEMDPVKRISAKNALEHPYFSHNDFDP
111111111100000000000000000000000000000000000011111111100000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000011111000000000000000111111111110000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>P0A5J2_3pkc_0_284
MPSRTALSPGVLSPTRPVPNWIARPEYVGKPAAQEGSEPWVQTPEVIEKMRVAGRIAAGALAEAGKA
VAPGVTTDELDRIAHEYLVDNGAYPSTLGYKGFPKSCCTSLNEVICHGIPDSTVITDGDIVNIDVTAYIG
GVHGDTNATFPAGDVADEHRLLVDRTREATMRAINTVKPGRALSVIGRVIESYANRFGYNVVRDFTG
HGIGTTFHNGLVVLHYDQPAVETIMQPGMTFTIEPMINLGALDYEIWDDGWTVVTKDRKWTAQFE
HTLLVTDTGVEILTCL
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
1
>D0VWS9_3c1a_0_314
GMSIPANNSPVRLALIGAGRWGKNYIRTIAGLPGAALVRLASSNPDNLALVPPGCVIESDWRSVVSAP
EVEAVIIATPPATHAEITLAAIASGKAVLVEKPLTLDLAEAEAVAAAAKATGVMVWVEHTQLFNPAW
EALKADLTSIGPILAVRSEAGNHGPYRPGGVPMLWDWGAHDVSMVLDLMGRDPDSTSASWAARGE
KDGGEAGDVTLTLAFSTVEAHIRLCNTMDKCRRLAVFGEAGTLVMDDRATDKLTLHPPQPDGNWP
VGQGHALTVTDEMPLTRAVRLFAGAVRQPEPGPSPLELGLRVVRVLGACS
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>Q8NTZ3_3pl2_21_338
MTNLTSTHEVLAIGRLGVDIYPLQSGVGLADVQSFGKYLGGSAANVSVAAARHGHNSALLSRVGNDP
FGEYLLAELERLGVDNQYVATDQTFKTPVTFCEIFPPDDFPLYFYREPKAPDLNIESADVSLDDVREA
DILWFTLTGFSEEPSRGTHREILTTRANRRHTIFDLDYRPMFWESPEEATKQAEWALQHSTVAVGNK
EECEIAVGETEPERAGRALLERGVELAIVKQGPKGVMAMTKDETVEVPPFFVDVINGLGAGDAFGGA
LCHGLLSEWPLEKVLRFANTAGALVASRLECSTAMPTTDEVEASLNQKV
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000111
>Q837V6_1ta8_0_324
MEQQPLTLTAATTRAQELRKQLNQYSHEYYVKDQPSVEDYVYDRLYKELVDIETEFPDLITPDSPTQR
VGGKVLSGFEKAPHDIPMYSLNDGFSKEDIFAFDERVRKAIGKPVAYCCELKIDGLAISLRYENGVFVR
GATRGDGTVGENITENLRTVRSVPMRLTEPISVEVRGECYMPKQSFVALNEEREENGQDIFANPRNA
AAGSLRQLDTKIVAKRNLNTFLYTVADFGPMKAKTQFEALEELSAIGFRTNPERQLCQSIDEVWAYIE
EYHEKRSTLPYEIDGIVIKVNEFALQDELGFTVKAPRWAIAYKFPPEEAETVV
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000011111111
>Q9HJT3_3bf5_0_286
MRFLAYFGHLNIDVLISVDSIPREGSVNVKDLRPRFGGTAGNFAIVAQKFRIPFDLYSAVGMKTHREYL
AMIESMGINTGHVEKFEDESGPICYIATDGKKQVSFMHQGAMEKWKPQLADEYEYVHFSTGPNYLD
MAKSIRSKIIFDPSQEIHKYSKDELKKFHEISYMSIFNDHEYRVFREMTGLSSPKVTTIVTNGERGSSL
FMDGKKYDFPAIPSSGDTVGAGDSFRAGLYLALYNRRSIEKGMIYGTIIAHHVIDDGIENFSLNMEDLE
RETENYRRMFTKRS
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
111
>Q8EF24_3o5c_22_332
AEPIEVITPAKITEPEKVELGKMLFFEPRLSKSGFISCNSCHNLSTGGVDALPTSIGHHWQEGPINSPT
VLNADFMLAQFWDGRASNLKEQAAGPIANPKEMGFTHELATETIASMPAYRARFAKVYGDEKVDID
RLTDAIAAFEKTLVTPNSPFDQYLLGKQDAISGDAKAGYQLFKDKGCVSCHNGPAVGGTMFMKMGLI
KPFHTNNPAEGRKGVTGKDADKFVFKVPTLRNIELTYPYFHDGSVWTLEEAVNTMADIQLGQKLTE
KETKEMVAFLNSLTGEQPQISLPILPPSNKETPRPVPFATGAK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000111
>P94522_1uv4_30_322
EAAFWGASNELLHDPTMIKEGSSWYALGTGLTEERGLRVLKSSDAKNWTVQKSIFTTPLSWWSNY
VPNYGQNQWAPDIQYYNGKYWLYYSVSSFGSNTSAIGLASSTSISSGGWKDEGLVIRSTSSNNYNAID
PELTFDKDGNPWLAFGSFWSGIKLTKLDKSTMKPTGSLYSIAARPNNGGALEAPTLTYQNGYYYLMV
SFDKCCDGVNSTYKIAYGRSKSITGPYLDKSGKSMLEGGGTILDSGNDQWKGPGGQDIVNGNILVRHA
YDANDNGIPKLLINDLNWSSGWPSY
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000
>Q1QU06_4jci_0_310
MKRVHVIDSHTAGEPTRLVMEGMPALSGRTIAEKCDDFRDNHDAWRRAIMLEPRGHDVLVGALYCA
PESSDASCGVIFFNNSGYLGMCGHGTIGLVASLHHLGQLTPGCHKIDTPAGPVSATLHDDGAVTVRNV
LSYRHRRRVPVEVPGYGTVHGDIAWGGNWFFLVSDHDMTLELDNVEALTDYTWAIRQALEAQSITG
ENGGVIDHIELFCDDREADSRNFVLCPGKAYDRSPCGTGTSAKLACLAADGKLAPGQVWTQASICGS
RFEAFYEREGDGIRPSIKGRAYLSADATLLIDERDPFAWGIASP
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011
>P37744_1h5t_0_292
MKMRKGIILAGGSGTRLYPVTMAVSKQLLPIYDKPMIYYPLSTLMLAGIRDILIISTPQDTPRFQQLLG
DGSQWGLNLQYKVQPSPDGLAQAFIIGEEFIGGDDCALVLGDNIFYGHDLPKLMEAAVNKESGATVF
AYHVNDPERYGVVEFDKNGTAISLEEKPLEPKSNYAVTGLYFYDNDVVQMAKNLKPSARGELEITDI
NRIYLEQGRLSVAMMGRGYAWLDTGTHQSLIEASNFIATIEERQGLKVSCPEEIAFRKGFIDVEQVRK
LAVPLIKNNYGQYLYKMTKDSN
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000011
>O86309_1gx3_0_274
MAMDLGGYLTRIGLDGRPRPDLGTLHAIVAAHNRSIPFENLDPLLGIPVADLSAEALFAKLVDRRRGG
YCYEHNGLLGYVLEELGFEVERLSGRVVWMRADDAPLPAQTHNVLSVAVPGADGRYLVDVGFGGQT
LTSPIRLEAGPVQQTRHEPYRLTRHGDDHTLAAQVRGEWQPLYTFTTEPRPRIDLEVGSWYVSTHP
GSHFVTGLTVAVVTDDARYNLRGRNLAVHRSGATEHIRFDSAAQVLDAIVNRFGIDLGDLAGRDVQA
RVAEVLDT
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>D0VWZ4_3i6y_0_279
GMSIENLSSNKSFGGWHKQYSHVSNTLNCAMRFAIYLPPQASTGAKVPVLYWLSGLTCSDENFMQK
AGAQRLAAELGIAIVAPDTSPRGEGVADDEGYDLGQGAGFYVNATQAPWNRHYQMYDYVVNELPEL
IESMFPVSDKRAIAGHSMGGHGALTIALRNPERYQSVSAFSPINNPVNCPWGQKAFTAYLGKDTDTW
REYDASLLMRAAKQYVPALVDQGEADNFLAEQLKPEVLEAAASSNNYPLELRSHEGYDHSYYFIASFI
EDHLRFHSNYLNA
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000
>D0VX01_3eld_0_274
MLGKQEFERYKVSDITEVDRTAARRYLKEGRTDVGISVSRGAAKIRWLHERGYLRITGRVLDLGCGR
GGWSYYAAAQKEVMSVKGYTLGIEGHEKPIHMQTLGWNIVKFKDKSNVFTMPTEPSDTLLCDIGES
SSNPLVERDRTMKVLENFERWKHVNTENFCVKVLAPYHPDVIEKLERLQLRFGGGIVRVPFSRNST
HEMYYISGARNNITHMVNTTSRSLLRRMTRPSGKAIIEGDVFLPTGTRSVASEAGTIDHEALKLRVD
QIKAEYSKT
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011100000000000000001111111
>P18843_1wxi_0_274
MTLQQQIIKALGAKPQINAEEEIRRSVDFLKSYLQTYPFIKSLVLGISGGQDSTLAGKLCQMAINELRL
ETGNESLQFIAVRLPYGVQADEQDCQDAIAFIQPDRVLTVNIKGAVLASEQALREAGIELSDFVRGNEK
ARERMKAQYSIAGMTSGVVVGTDHAAEAITGFFTKYGDGGTDINPLYRLNKRQGKQLLAALACPEHL
YKKAPTADLEDDRPSLPDEVALGVTYDNIDDYLEGKNVPQQVARTIENWYLKTEHKRRPPITVFDD
FWKK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
11111111100000000000000000000000000000000000000000000
>A1A3G9_3cpg_1_271
TAYMDHKNLANEVIDDARAREITDGVHRVLDRIAAAEEQAGREAGSVRLLAATKTRDIGEIMAAIDA
GVRMIGENRPQEVTAKAEGLARRCAERGFSLGVAGAAPDAAAEHIPFHLIGQLQSNKIGKVLPVVDTI
ESVDSIDLAEKISRRAVARGITVGVLLEVNESGEESKSGCDPAHAIRIAQKIGTLDGIELQGLMTIGAHV
HDETVIRRGFSHLRKTRDLILASGEPGTDRCRELSMGMTGDMELAIAEGSTIVRVGTAIFGERAFI
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000111111
>Q13KT2_2xua_0_262
MPYAAVNGTELHYRIDGERHGNAPWIVLSNSLGTDLSMWAPQVAALSKHFRVLRYDTRGHGHSEA
PKGPYTIEQLTGDVLGLMDTLKIARANFCGLSMGGLTGVALAARHADRIERVALCNTAARIGSPEVW
VPRAVKARTEGMHALADAVLPRWFTADYMEREPVVLAMIRDVFVHTDKEGYASNCEAIDAADLRP
EAPGIKVPALVISGTHDLAATPAQGRELAQAIAGARYVELDASHISNIERADAFTKTVVDFLTEQK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>Q56008_1jfr_48_309
AANPYERGPAPTNASIEASRGPYATSQTSVSSLVASGFGGGTIYYPTSTADGTFGAVVISPGFTAYQSSIA
WLGPRLASQGFVVFTIDTNTTLDQPDSRGRQLLSALDYLTQRSSVRTRVDATRLGVMGHSMGGGGS
LEAAKSRTSLKAAIPLTGWNTDKTWPELRTPTLVVGADGDTVAPVATHSKPFYESLPGSLDKAYLEL
RGASHFTPNTSDTTIAKYSISWLKRFIDSDTRYEQFLCPIPRPSLTIAEYRGTCPHTS

11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>P24468_3cjw_174_413
HSYLSGYISLLLRAEPYPTSRFGSQCMQPNNIMGIENICELAARMLFSAVEWARNIPFFPDLQITDQV
ALLRLTWSELFVLNAAQCSMPLHVAPLLAAAGLHASPMSADRVVAFMDHIRIFQEQVEKLKALHVD
SAEYSCLKAIVLFTSDACGLSDVAHVESLQEKSQCALEEYVRSQYPNQPTRFGKLLLRLPSLRTVSSSV
IEQLFFVRLVGKTPIETLIRDMLLSGSSFNWPYMAIQ
00000000000000000001111111111111000000000000000000000000000000000000000
00000000000000000000000111111111111111100000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111111
>Q8PHA1_2h5y_24_257
QTAPVTVFAAASLKESMDEAATAYEKATGTPVRVSYAASSALARQIEQGAPADVFFSADLEWMDYLQ
QHGLVLPAQRHNLLGNTLVLVAPASSKLRVDPRAPGAIAKALGENGRLAVGQTASVPAGKYAAAALR
KLGQWDSVSNRLAESESVRAALMLVSRGEAPLGIVYGSDARADAKVRVVATFPDDSHDAIVYPVAAL
KNSNNPATAAFVSWLGSKPAKAIFARRGFSLKD
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001
>P0A5Z6_1ys6_0_232
MDTGVTSPRVLVVDDDSDVLASLERGLRLSGFEVATAVDGAEALRSATENRPDAIVLDINMPVLDGV
SVVTALRAMDNDVPVCVLSARSSVDDRVAGLEAGADDYLVKPFVLAELVARVKALLRRRGSTATSSSE
TITVGPLEVDIPGRRARVNGVDVDLTKREFDLLAVLAEHKTAVLSRAQLLELVWGYDFAADTNVVDV
FIGYLRRKLEAGGGPRLLHTVRGVGFVLRMQ
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q53464_1zrn_0_231
MDYIKGIAFDLYGTLFDVHSVVGRCDEAFPGRGREISALWRQKQLEYTWLRSLMNRYVNFQQATED
ALRFTCRHLGLDLDARTRSTLCDAYLRLAPFSEVPDSLRELKRRGLKLAILSNGSPQSIDAVVSHAGL
RDGFDHLLSVDPVQVYKPDNRVYELAEQALGLDRSAILFVSSNAWDATGARYFGFPTCWINRTGNV
FEEMGQTPDWEVTSLRAVVELFETAAGKAEKG
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000001111111111
>G6TGY9_4emv_0_225
MSKKEININNYNDDAIQVLEGLDAVRKRPGMYIGSTDGAGLHHLVWEIVDNAVDEALSGFGDRIDVT
INKDGSLTVQDHGRGMPTGMHAMGIPTVEVIFTILHAGGKFGQGGYKTSGGLHGVGSSVVNALSSW
LEVEITRDGAVYKQRFENGGKPVTTLKKIGTALKSKTGTKVTFMPDATIFSTTDFKYNTISERLNESA

FLLKNVTLSLTDKRTDEAIEFHYEN
1111111111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111111111110000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>Q0IFG2_4fd4_0_216
MVAPESIVLRVARLDELEQVREILHRIYYPEEGITISYVHGKSHTLDDERFSLSFVEQGTVVVAEDSAA
KKFIGVSIAGPIQPGDPDAMVEEAATTETKKWGDILKLLALLERTADVCGRYGLEKAYHVHILAVDPT
YRGHSLGQRLLQFQMDLSKKLGFKAISGDFTSVFSVKLAEKLGMECISQLALGDYRDEKGEKLFEPL
DVHQVIKTCVKLL
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>D2YW47_3vcr_0_216
GMTQLDTWLANTKPLIPVIVIDDLVHAIPMAKALVAGGVHLLEVTLRTEAGLAAISAIKKAVPEAIVG
AGTVCTADDFQKAIDAGAQFIVSPGLTPELIEKAKQVKLDGQWQGVFLPGVATASEVMIAAQAGITQL
KCFPASAIGGAKLLKAWSGPFPDIQFCPTGGISKDNYKEYLGLPNVICAGGSWLTESKLLIEGDWNEV
TRRASEIVKLSDI
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>P0C6D3_3tb4_0_214
MAIPKIASYPLPVSLPTNKVDWRIDASRAVLLIHDMQEYFVHYFDSQAEPIPSLIKHIQQLKAHAKQA
GIPVVYTAQPANQDPAERALLSDFWGPGLSEETAIIAPLAPESGDVQLTKWRYSAFKKSPLLDWLRE
TGRDQLIITGVYAHIGILSTALDAFMFDIQPFVIGDGVADFSLSDHEFSLRYISGRTGAVKSTQQACLEI
AAQHSKLTGL
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000111111
11
>Q2FXC3_2vid_36_239
ENNVTKVKDTNIFPYTGVVAFKSATGFVVGKNTILTNKHVSKNYKVGDRITAHPNSDKGNGGIYSIKK
IINYPGKEDVSVIQVEERAIERGPKGFNFNDNVTPFKYAAGAKAGERIKVIGYPHPYKNKYVLYESTGP
VMSVEGSSIVYSAHTESGNSGSPVLNSNNELVGIHFASDVKNDDNRNAYGVYFTPEIKKFIAENIDK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001100000000000000000000000
>Q8AA96_4hf7_28_235
QKHEFANYKRYATENAALAQPVKKEKRVVFMGNSITEGWVRTHPDFFKTNGYIGRGISGQTSYQFLL
RFREDVINLSPALVVINAGTNDVAENTGAYNEDYTFGNIASMAELAKANKIKVILTSVLPAAEFPWRR
EIKDAPQKIQSLNARIEAYAKANKIPFVNYYQPMVVGENKALNPQYTKDGVHPTGEGYDIMEALIKQ
AIEKAL

11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>P15141_3exw_134_342
GLTFNSNNICIDDNINTLWTGVNPTTANCQIMASSESNDCKLILTLVKTGGLVTAFVYVIGVSNDFNM
LTTHKNINFTAELFFDSTGNLLTSLSSLKTPLNHKSGQNMATGALTNAKGFMPSTTAYPFNVNSREK
ENYIYGTCYYTASDHTAFPIDISVMLNQRALNNETSYCIRVTWSWNTGVAPEVQTSATTLVTSPFTFY
YIREDD
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
>Q27709_1qv0_0_194
MSSKYAVKLKTDFDNPRWIKRHKHMFDFLDINGNGKITLDEIVSKASDDICAKLEATPEQTKRHQV
CVEAFFRGCGMEYGKEIAFPQFLDGWKQLATSELKKWARNEPTLIREWGDAVFDIFDKDGSGTITL
DEWKAYGKISGISPSQEDCEATFRHCDLDNSGDLDVDEMTRQHLGFWYTLDPEADGLYGNGVP
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111000000000000000
00000000000000000000000000000000000000000000000000000
>A6NI73_2d3v_41_236
GNLSKATLWAEPGSVISRGNSVTIRCQGTLEAQEYRLVKEGSPEPWDTQNPLEPKNKARFSIPSMTE
HHAGRYRCYYYSPAGWSEPSDPLELVVTGFYNKPTLSALPSPVVTSGENVTLQCGSRLRFDRFILTEE
GDHKLSWTLDSQLTPSGQFQALFPVGPVTPSHRWMLRCYGSRRHILQVWSEPSDLLEIPVS
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111111111100000000000000000001110000
000000000000000000000000000000000000000000000000000001
>Q97JL1_3ccg_0_188
MWSYDKITDYLMNNLGEKRYKHSLGVMDTAVRLAGIYNEDTEKARIAGLVHDCAKKLPGEKIIEICT
NEGYELGDEDIRNSYLLHGLAGRILAKKVIGIDDEDVLNAIEFHTTGRPNMSLLEKIIYIADYIEPGRE
FKGVDELRKAADEDLNKALLMSFDNTIKFVIDKGGFLHHNTIEARNYLISRKG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001
>P00905_1i1q_1_191
ADILLLDNIDSFTWNLADQLRTNGHNVVIYRNHIPAQTLIDRLATMKNPVLMLSPGPGVPSEAGCM
PELLTRLRGKLPIIGICLGHQAIVEAYGGYVGQAGEILHGKASSIEHDGQAMFAGLANPLPVARYHSLV
GSNVPAGLTINAHFNGMVMAVRHDADRVCGFQFHPESILTTQGARLLEQTLAWAQQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001110000000000000000000000000000001110000000
0000000000000000000000000000000000000000000000000
>P0AF03_1di7_2_194
TLRIGLVSISDRASSGVYQDKGIPALEEWLTSALTTPFELETRLIPDEQAIIEQTLCELVDEMSCHLVLTT
GGTGPARRDVTPDATLAVADREMPGFGEQMRQISLHFVPTAILSRQVGVIRKQALILNLPGQPKSIKE
TLEGVKDAEGNVVVHGIFASVPYCIQLLEGPYVETAPEVVAAFRPKSARRDVSE
00000000000011111000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001111
>B7AGU1_4ici_20_189
QQKQKMNSKHSNSKILVAYFSATGTTARAAEKLGAAVGGDLYPIAPAQPYTSADLDWNNKRSRSSVE
MNDPKMRPAIKSKKENIGTYDVVFIGYPIWWDLAPRIINTFIEGHSLKGKTVVPFATSGGSSIGNSAT
VLKKTYPDLNWKEGRLLNRTDEKAIRAWLDVIAVK
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000
>Q8P559_3qyy_127_290
MRDLKRHALFDPLTEALNRRGCEQAMRDSVTAAQREGWPFVLFVLDMDNLKPINDRFGHLAGDR
VLVRLVESAYGWLGAQDWIGRWGGDEFLIGVHASEDEATLKLNQWLSMLEREDAEEAPLHVSAGSA
VCEVGIDATELYRRADAAMYRAKFSGGRRLVRDG
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111100000000000000000000000
0000000000000000000001
>O64527_3emm_0_165
MNQLQQLQNPGESPPVHPFVAPLSYLLGTWRGQGEGEYPTIPSFRYGEEIRFSHSGKPVIAYTQKTW
KLESGAPMHAESGYFRPRPDGSIEVVIAQSTGLVEVQKGTYNVDEQSIKLKSDLVGNASKVKEISREFE
LVDGKLSYVVRMSTTTNPLQPHLKAILDKL
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>Q99KK2_3ewi_266_431
KEKLKEIKLLVCNIDGCLTNGHIYVSGDQKEIISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSALKL
DCKTEVSVSDKLATVDEWRKEMGLCWKEVAYLGNEVSDEECLKRVGLSAVPADACSGAQKAVGYIC
KCSGGRGAIREFAEHIFLLIEKVNNSCQK
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111
>Q06848_3ul4_29_174
QTNTIEIIIGNVKARPGDRIEVPVSLKNVPDKGIVSSDFVIEYDSKLFKVIELKAGDIVENPSESFSYNV
VEKDEIIAVLYLEETGLGIEAIRTDGVFFTIVMEVSKDVKPGISPIKFESFGATADNDMNEMTPKLVEG
KVEIIEA
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0011
>P43577_1i12_0_158
MSLPDGFYIRRMEEGDLEQVTETLKVLTTVGTITPESFSKLIKYWNEATVWNDNEDKKIMQYNPMV
IVDKRTETVAATGNIIIERKIIHELGLCGHIEDIAVNSKYQGQGLGKLLIDQLVTIGFDYGCYKIILDCDE
KNVKFYEKCGFSNAGVEMQIRK
00000000000000000000000000000000000000000000000000001111000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000

>Q1MFM4_3otl_0_157
MTIRSAEHATLVIERHLKAPISRVFRAWSTPESKRQWFACHGEWVPLDYGLDFRPGGTERNYVADT
DGLLHAYDAHYIDIVPDARIIYAYEMKLGESRISASLTTVAFEAAPGGTKMVFTEQVVFLDGYADNGA
RLQGTEIGLDNLELFLEREESPIH
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111
>D6ZTY6_3u80_0_147
MTKVIVVNGPNLGRLGVRQPDVYGRQDLDTLRKLCAEWGKDLGLEVEVRQTDDEAEMVRWMHQ
AADEKTPVVMNPAAFTHYSYALADAAHMVIDENLPLMEVHISNPSARDEFRKRSVISPVATGTITGM
GFYGYKLALDAVAHLLSE
0000000000001111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011111100000000000000000000000000000000
000000
>Q2PHL4_3lei_37_188
EQGNRPVETENIARGKQASQSSTAYGGAAARAVDGNVDSDYGHHSVTHTNFEDNAWWQVDLGKTE
NVGKVKLYNRGDGNVANRLSNFDVVLLNEAKQEVARQHFDSLNGKAELEVFFTAKAARYVKVELKT
KNTPLSLAEVEVFRSATTQVG
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000001111
>Q8WUJ0_2r0b_25_176
RREMQEILPGLFLGPYSSAMKSKLPVLQKHGITHIICIRQNIEANFIKPNFQQLFRYLVLDIADNPVEN
IIRFFPMTKEFIDGSLQMGGKVLVHGNAGISRSAAFVIAYIMETFGMKYRDAFAYVQERRFCINPNAG
FVHQLQEYEAIYLAK
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000001
>P02213_4hbi_0_145
PSVYDAAAQLTADVKKDLRDSWKVIGSDKKGNGVALMTTLFADNQETIGYFKRLGDVSQGMANDK
LRGHSITLMYALQNFIDQLDNPDDLVCVVEKFAVNHITRKISAAEFGKINGPIKKVLASKNFGDKYAN
AWAKLVAVVQAAL
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000
>A7LRD6_4gzv_22_162
QKKTKFKAADLKGIWQLCHYVSESPDVPGALKPSNTFKVLSDDGRIVNFTIIPGADAIITGYGTYKQL
TDDSYKESIEKNIHLPMLDNQDNILEFEIKDNDYLHLKYFIKSDLNGNELNTWYYETWKRVEMPAK
FPEDIVR
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q89BM6_3i4s_34_171
SEPAWSLHSRLKEDTIDIGDLPLSKVLVIKDANYPWLLLVPRRPDAVEIIDLDEVQQAQLMTEISRVSR
ALKEITKCDKLNIAALGNLVPQLHVHIIARRTGDAAWPRPVWGVMQPLAHDATEVQNFISALRRKI

WLG
11000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000001
>O83028_2xqc_0_139
MTYVILPLEMKKGRGYVYQLEYHLIWCVKYRHQVLVGEVADGLKDILRDIAAQNGLEVITMEVMPD
HVHLLLSATPQQAIPDFVKALKGASARRMFVAYPQLKEKLWGGNLWNPSYCILTVSENTRAQIQKYI
ESQHDKE
11111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>Q9KG76_1w9s_789_924
DLKNPYERIQAEAYDAMSGIQTEGTDDDGGGDNIGWINDGDWVKYERVHFERDASSIEVRVASDTP
GGRIEIRTGSPTGTLLGDVQVPNTGGWQQWQTVTGNVQIQPGTYDVYLVFKGSPEYDLMNVNWFV
FRANG
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000011
>Q9WZ82_1o3u_0_122
MDAAKDDLEHAKHDLEHGFYNWACFSSQQAAEKAVKAVFQRMGAQAWGYSVPDFLGELSSRFEIP
EELMDHALELDKACIPTRYPDALPSGSPRNRYSRIEAERLVNYAEKIIRFCEDLLSRI
00000000000000000000000000000000000000000000000000000000000000000000000
0000000011111100000000000000000000000000000000000000
>Q9P1W8_2jjw_28_146
EEELQMIQPEKLLLVTVGKTATLHCTVTSLLPVGPVLWFRGVGPGRELIYNQKEGHFPRVTTVSDLT
KRNNMDFSIRISSITPADVGTYYCVKFRKGSPENVEFKSGPGTEMALGAKPS
11100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000011110000000000000000001
>P0ACE7_3n1t_0_118
MAEETIFSKIIRREIPSDIVYQDDLVTAFRDISPQAPTHILIIPNILIPTVNDVSAEHEQALGRMITVAAK
IAEQEGIAEDGYRLIMNTNRHGGQEVYHIHMHLLGGRPLGPMLAHKGL
11000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011
>Q03330_1e6i_323_438
AQRPKRGPHDAAIQNILTELQNHAAAWPFLQPVNKEEVPDYYDFIKEPMDLSTMEIKLESNKYQKM
EDFIYDARLVFNNCRMYNGENTSYYKYANRLEKFFNNKVKEIPEYSHLID
11111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000
>Q06110_1j48_33_142
APAFSVSPASGLSDGQSVSVSVSGAAAGETYYIAQCAPVGGQDACNPATATSFTTDASGAASFSFVVRK
SYTGSTPEGTPVGSVDCATAACNLGAGNSGLDLGHVALTFG
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001
>Q52440_2e4q_0_108
MTFTKACSVDEVPPGEALQVSHDAQKVAIFNVDGEFFATQDQCTHGEWSLSEGGYLDGDVVECSLH
MGKFCVRTGKVKSPPPCEPLKVYPIRIEGRDVLVDFSRAALHA
10000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000
>P78352_3i4w_301_402
LGEEDIPREPRRIVIHRGSTGLGFNIVGGEDGEGIFISFILAGGPADLSGELRKGDQILSVNGVDLRNAS
HEQAAIALKNAGQTVTIIAQYKPEEYSRFEAK
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001
>Q9PIK3_3plx_25_125
ISIDEKLLQASGILEYEKVQVVNVNNGARFETYTIATQEEGVVCLNGAAARLAEVGDKVIIMSYADFN
EEEAKTFKPKVVFVDENNTATKITNYEKHGAIF
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001
>Q82WP3_2omo_0_99
MYVTIVYASVKTDKTEAFKEATRMNHEQSIREPGNMRFDILQSADDPTRFVLYEAYKTRKDAAAHK
ETAHYLTWRDTVADWMAEPRKGVIYGGLYPTGDD
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000111
>O15021_2w7r_1142_1233
QPIVIHSSGKNYGFTIRAIRVYVGDSDIYTVHHIVWNVEEGSPACQAGLKAGDLITHINGEPVHGLVHT
EVIELLLKSGNKVSITTTPFENT
00000000100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>O67611_2ehs_1_77
SLEERVKEIIAEQLGVEKEKITPEAKFVEDLGADSLDVVELIMAFEEEFGIEIPDEDAEKIQTVGDVINY
LKEKVGG
00000000000000000000000000000000000000000000000000000000000000000000000000000
000011
>O76041_4f14_954_1013
NLRTYRAMYDYSAQDEDEVSFRDGDYIVNVQPIDDGWMYGTVQRTGRTGMLPANYIEFVN
11100000000000000000000000000000000000000000000000000000001
>Q9Y3Q0_3ff3_35_739
ETTTSVRYHQSIRWKLVSEMKAENIKSFLRSFTKLPHLAGTEQNFLLAKKIQTQWKKFGLDSAKLVH
YDVLLSYPNETNANYISIVDEHETEIFKTSYLEPPPDGYENVTNIVPPYNAFSAQGMPEGDLVYVNYA
RTEDFFKLEREMGINCTGKIVIARYGKIFRGNKVKNAMLAGAIGIILYSDPADYFAPEVQPYPKGWNL
PGTAAQRGNVLNLNGAGDPLTPGYPAKEYTFRLDVEEGVGIPRIPVHPIGYNDAEILLRYLGGIAPPD
KSWKGALNVSYSIGPGFTGSDSFRKVRMHVYNINKITRIYNVVGTIRGSVEPDRYVILGGHRDSWVFG
AIDPTSGVAVLQEIARSFGKLMSKGWRPRRTIIFASWDAEEFGLLGSTEWAEENVKILQERSIAYINSD
SSIEGNYTLRVDCTPLLYQLVYKLTKEIPSPDDGFESKSLYESWLEKDPSPENKNLPRINKLGSGSDFE
AYFQRLGIASGRARYTKNKKTDKYSSYPVYHTIYETFELVEKFYDPTFKKQLSVAQLRGALVYELVDS
KIIPFNIQDYAEALKNYAASIYNLSKKHDQQLTDHGVSFDSLFSAVKNFSEAASDFHKRLIQVDLNNPI
AVRMMNDQLMLLERAFIDPLGLPGKLFYRHIIFAPSSHNKYAGESFPGIYDAIFDIENKANSRLAWKE
VKKHISIAAFTIQAAAGTLKEVL
11111111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000010000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000001
>Q9RBY1_2z8z_0_616
MGVYDYKNFGTADSKALFSDAMAITLYSYHNLDNGFAAGYQHNGFGLGLPATLVTALLGGTDSQGVI
PGIPWNPDSEKLALDAVKKAGWTPITASQLGYDGKTDARGTFFGEKAGYTTAQVEILGKYDAQGHLT
EIGIAFRGTSGPRENLILDSIGDVINDLLAAFGPKDYAKNYVGEAFGNLLNDVVAFAKANGLSGKDVLV
SGHSLGGLAVNSMADLSGGKWGGFFADSNYIAYASPTQSSTDKVLNVGYENDPVFRALDGSTFTGAS
VGVHDAPKESATDNIVSFNDHYASTAWNLLPFSILNIPTWISHLPTAYGDGMNRIIESKFYDLTSKDST
IIVANLSDPARANTWVQDLNRNAETHKGSTFIIGSDSNDLIQGGSGNDYLEGRAGNDTFRDGGGYNV
ILGGAGNNTLDLQKSVNTFDFANDGAGNLYVRDANGGISITRDIGSIVTKEPGFLWGLFKDDVTHSVT
ASGLKVGSNVTQYDASVKGTNGADTLKAHAGGDWLFGLDGNDHLIGGVGNDVFVGGAGNDLMESG
GGADTFLFNGAFGQDRVVGFTSNDKLVFLGVQGVLPNDDFRAHASMVGQDTVLKFGGDSVTLVGVA
LNSLSADGIVIA
100000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
>P37700_1kfg_35_648
AGTYNYGEALQKSIMFYEFQRSGDLPADKRDNWRDDSGMKDGSDVGVDLTGGWYDAGDHVKFNL
PMSYTSAMLAWSLYEDKDAYDKSGQTKYIMDGIKWANDYFIKCNPTPGVYYYQVGDGGKDHSWW
GPAEVMQMERPSFKVDASKPGSAVCASTAASLASAAVVFKSSDPTYAEKCISHAKNLFDMADKAKSD
AGYTAASGYYSSSSFYDDLSWAAVWLYLATNDSTYLDKAESYVPNWGKEQQTDIIAYKWGQCWDD
VHYGAELLLAKLTNKQLYKDSIEMNLDFWTTGVNGTRVSYTPKGLAWLFQWGSLRHATTQAFLAG
VYAEWEGCTPSKVSVYKDFLKSQIDYALGSTGRSFVVGYGVNPPQHPHHRTAHGSWTDQMTSPTYH
RHTIYGALVGGPDNADGYTDEINNYVNNEIACDYNAGFTGALAKMYKHSGGDPIPNFKAIEKITNDE
VIIKAGLNSTGPNYTEIKAVVYNQTGWPARVTDKISFKYFMDLSEIVAAGIDPLSLVTSSNYSEGKNTK
VSGVLPWDVSNNVYYVNVDLTGENIYPGGQSACRREVQFRIAAPQGTTYWNPKNDFSYDGLPTTST
VNTVTNIPVYDNGVKVFGNEP
100000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>P16027_1w6s_27_625
NDKLVELSKSDDNWVMPGKNYDSNNFSDLKQINKGNVKQLRPAWTFSTGLLNGHEGAPLVVDGK
MYIHTSFPNNTFALGLDDPGTILWQDKPKQNPAARAVACCDLVNRGLAYWPGDGKTPALILKTQLD
GNVAALNAETGETVWKVENSDIKVGSTLTIAPYVVKDKVIIGSSGAELGVRGYLTAYDVKTGEQVWR
AYATGPDKDLLLASDFNIKNPHYGQKGLGTGTWEGDAWKIGGGTNWGWYAYDPGTNLIYFGTGNP
APWNETMRPGDNKWTMTIFGRDADTGEAKFGYQKTPHDEWDYAGVNVMMLSEQKDKDGKARK
LLTHPDRNGIVYTLDRTDGALVSANKLDDTVNVFKSVDLKTGQPVRDPEYGTRMDHLAKDICPSAM
GYHNQGHDSYDPKRELFFMGINHICMDWEPFMLPYRAGQFFVGATLNMYPGPKGDRQNYEGLGQI
KAYNAITGDYKWEKMERFAVWGGTMATAGDLVFYGTLDGYLKARDSDTGDLLWKFKIPSGAIGYP
MTYTHKGTQYVAIYYGVGGWPGVGLVFDLADPTAGLGAVGAFKKLANYTQMGGGVVVFSLDGKGPY
DDPNVGEWKSAAK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011
>Q5KWC1_3px6_286_877
MESPSSEEEKPLAKMAFTLADRVTEEMLADKAALVVEVVEENYHDAPIVGIAVVNEHGRFFLRPET
ALADPQFVAWLGDETKKKSMFDSKRAAVALKWKGIELCGVSFDLLLAAYLLDPAQGVDDVAAAAK
MKQYEAVRPDEAVYGKGAKRAVPDEPVLAEHLVRKAAAIWELERPFLDELRRNEQDRLLVELEQPL
SSILAEMEFAGVKVDTKRLEQMGKELAEQLGTVEQRIYELAGQEFNINSPKQLGVILFEKLQLPVLKK
TKTGYSTSADVLEKLAPYHEIVENILHYRQLGKLQSTYIEGLLKVVRPDTKKVHTIFNQALTQTGRLS
STEPNLQNIPIRLEEGRKIRQAFVPSESDWLIFAADYSQIELRVLAHIAEDDNLMEAFRRDLDIHTKT
AMDIFQVSEDEVTPNMRRQAKAVNFGIVYGISDYGLAQNLNISRKEAAEFIERYFESFPGVKRYMENI
VQEAKQKGYVTTLLHRRRYLPDITSRNFNVRSFAERMAMNTPIQGSAADIIKKAMIDLNARLKEERL
QARLLLQVHDELILEAPKEEMERLCRLVPEVMEQAVTLRVPLKVDYHYGSTWYDAK
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>A5LBQ0_2wmi_421_1004
SEVDKRREINNEHPLLMMPLYANGEEFNQGKYTFWGGDTLTGKWENIPDDLKPYTVIQLHPDDLP

KRDGAARDFYEHMLEEAAKYVNPKTGKNEPIPVILTVYTAGNMPYYTSAHWLSTSWIDKMYQKYP
NLHGIFSTENYWIWANDIENKAADYLKVSAKNGGYFIWAEQNNGSAIEKAFGKNGKIAFQKSVDKY
WKNLIFMFKNTPAAEGNDSTTESYMKGLWLSNHTYQWGGLMDTWKWYETGKWKLFASGNIGKS
QGDRQWLTEPESMLGEEALGVYLNGGVVYNFEHPAYTYGVNNKESLLFSEVIKEFFRYVIAHPAPSK
EKVLEDTKVFIHGDYSNKGNGKFFVNVNTDREQTPLYMTGRYNVIPAIPGVLKTDKLKESVSSSRIQI
KEITSPEFSSTQARKEYLNKLYPMNYEGDIFAQKLDNRWFVYNYKVNENVKQTGKLKFNSLEMNVE
FEPHTYGIFERISNGLKVNLNNFRTNKDSLWSNAQDANQAKKLPQLTKKGAIKWIEEHYIKDTQFGE
KRVTKIVLRGIDKLPTIHSLSGTNNSYDQPSLNFDQKNHMVTITINSNGNLEFELHF
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>P07254_1x6l_0_562
MRKFNKPLLALLIGSTLCSAAQAAAPGKPTIAWGNTKFAIVEVDQAATAYNNLVKVKNAADVSVSW
NLWNGDAGTTAKILLNGKEAWSGPSTGSSGTANFKVNKGGRYQMQVALCNADGCTASDATEIVVAD
TDGSHLAPLKEPLLEKNKPYKQNSGKVVGSYFVEWGVYGRNFTVDKIPAQNLTHLLYGFIPICGGNGI
NDSLKEIEGSFQALQRSCQGREDFKVSIHDPFAALQKAQKGVTAWDDPYKGNFGQLMALKQAHPDL
KILPSIGGWTLSDPFFFMGDKVKRDRFVGSVKEFLQTWKFFDGVDIDWEFPGGKGANPNLGSPQDG
ETYVLLMKELRAMLDQLSAETGRKYELTSAISAGKDKIDKVAYNVAQNSMDHIFLMSYDFYGPFDLK
NLGHQTALNAPAWKPDTAYTTVNGVNALLAQGVKPGKVVVGTAMYGRGWTGVNGYQNNIPFTGTA
TGPVKGTWKNGIVDYRQIAGQFMSGEWQYTYDATAEAPYVFKPSTGDLITFDDARSVQAKGKYVLD
KQLGGLFSWEIDADNGDILNSMNASLGNSAGVQ
11111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>Q5JDJ7_3n98_0_561
MKGYLTFVLHTHIPYVRKHGKWPFGEEWVFEAISETYIPLLMEFERLRDSGVKFGIVINVTPVLAEQ
LTDEYMKKAFEEYMERKLKAMEEDLKSGKYDEKAVSYMLNYFRKVYDYWKAINGDIIGKLRELQD
QGYVEVITSAATHGYLPLLGRDEAIRAQIANGVATYEKHFGMKPKGIWLPECAYRPAGEWELPGGRK
VKRQGIEKFLEEFGLRYFFVESRLIDEGPASNVYGEVLIADTEKTTLRPYWIKGSNVAVFARNRETGH
QVWSAHYGYPGDFWYREFHKKAPKSGGQYWRITSKEVGLGEKEFYDPDKAMERVEEHARHFVSLV
ERLLREHEEKFGEKGIIVAPYDTELFGHWWFEGVKWLGRVLELLYQRGVETPTLSRFLEEYSGEKHE
IELPEGSWGANSDHSTWWNEETEWTWPHIYRAEDRMVAIVSRFRGRDELTNRVIEQLARELLILEA
SDWQFLITTGQAKEYAKRRVLIHSRDFHRLANELVRYVKIGEFDVKLLEELEERDNPFRPVVVGPYV

SENPPELEEYVEPPEVPPEKEETEEKPKVL
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111111
>B6A876_3oa5_0_541
MEKEEKSNLIYDKDPGYVWDNKNECEGAAEETYQELNYEPSISADKLTWTPTRLAKTVFNTYEDD
DDFNVLCYFTDWSQYDPRIINKEIRDTGGRSADILRLNTPDGRPFKRLIYSFGGLIGDKKYSADGNAS
IAVRLGVATDPDDAIANHKGKTIPVDPDGAVLASINCGFTKWEAGDANERYNQEKAKGLLGGFRLLH
EADKELEFSLSIGGWSMSGLFSEIAKDEILRTNFVEGIKDFFQRFPMFSHLDIDWEYPGSIGAGNPNS
PDDGANFAILIQQITDAKISNLKGISIASSADPAKIDAANIPALMDAGVTGINLMTYDFFTLGDGKLSH
HTNIYRDPSDVYSKYSIDDAVTHLIDEKKVDPKAIFIGYAGYTRNAKNATITTSIPSEEALKGTYTDAN
QTLGSFEYSVLEWTDIICHYMDFEKGEGRNGYKLVHDKVAKADYLYSEATKVFISLDTPRSVRDKGR
YVKDKGLGGLFIWSGDQDNGILTNAAHEGLKRRIKNKVIDMTPFYLDSDEELPTYTEPAEPQCEACN
IK
11111000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111111111111111111
>P00898_1i1q_0_519
MQTPKPTLELLTCDAAYRENPTALFHQVCGDRPATLLLESADIDSKDDLKSLLLVDSALRITALGDTV
TIQALSDNGASLLPLLDTALPAGVENDVLPAGRVLRFPPVSPLLDEDARLCSLSVFDAFRLLQGVVNIP
TQEREAMFFGGLFAYDLVAGFEALPHLEAGNNCPDYCFYLAETLMVIDHQKKSTRIQASLFTASDRE
KQRLNARLAYLSQQLTQPAPPLPVTPVPDMRCECNQSDDAFGAVVRQLQKAIRAGEIFQVVPSRRFS
LPCPSPLAAYYVLKKSNPSPYMFFMQDNDFTLFGASPESSLKYDAASRQIEIYPIAGTRPRGRRADGT
LDRDLDSRIELDMRTDHKELSEHLMLVDLARNDLARICTPGSRYVADLTKVDRYSYVMHLVSRVVGE
LRHDLDALHAYRACMNMGTLSGAPKVRAMQLIADAEGQRRGSYGGAVGYFTAHGDLDTCIVIRSAL
VENGIATVQAGAGIVLDSVPQSEADETRNKARAVLRAIATAHHAQETF
11111000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111

>P42061_1xoc_24_542
SGSKSSNSSAKKSAGKPQQGGDLVVGSIGEPTLFNSLYSTDDASTDIENMLYSFLTKTDEKLNVKLSLA
ESIKELDGGLAYDVKIKKGVKFHDGKELTADDVVFTYSVPLSKDYKGERGSTYEMLKSVEKKGDYEVL
FKLKYKDGNFYNNALDSTAILPKHILGNVPIADLEENEFNRKKPIGSGPFKFKEWKQGQYIKLEAND
DYFEGRPYLDTVTYKVIPDANAAVAQLQAGDINFFNVPATDYKTAEKFNNLKIVTDLALSYVYIGWN
EKNELFKDKKVRQALTTALDRESIVSQVLDGDGEVAYIPESPLSWNYPKDIDVPKFEYNEKKAKQML
AEAGWKDTNGDGILDKDGKKFSFTLKTNQGNKVREDIAVVVQEQLKKIGIEVKTQIVEWSALVEQM
NPPNWDFDAMVMGWSLSTFPDQYDIFHSSQIKKGLNYVWYKNAEADKLMKDAKSISDRKQYSKEY
EQIYQKIAEDQPYTFLYYPNNHMAMPENLEGYKYHPKRDLYNIEKWWLAK
1111111111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q8A1B4_3sgh_23_520
FEDFNTNPYQPSKVPASNLLSTMFNVYACPQQNACQEINCMWASFSGQVTATANWSFGKNIFAYYN
ASEGHNDSSWGRLYGYIYPSFFLVENSTEKKGVIYAMAQLTRVYGMQLLASLQGPIPYTQMKAGETEA
PYDNEQTVWHAMFDDLDNAITILKSAATFGVNQDLAVVDQFYKGDCSKWLKFANTLKLRMAIRISG
VEPEYAQTKAQEAVLGGVMESVGDSSYDTTNGGINENGYAIVSGWPEVRANACLVSYMNGYNDPRR
PAYFTPQTQTAAGGYVGVRSGSAEIPEPTVYANYSKLFIATDKTLPQPVMYAAEAAFLRAEGALKGW
NMGGDAKTFYEKGVRLSFEEFGVSGADDYLADATSIPGNYVDNLIAGHTGNNYTNQSSITIKWEDGA
DDAKKLERVLTQKWIACYPDPMNGWADFRRTGYPRIFPATESMNADCNTGRGQRRLRFTRSEYNN
NKANVEAAVSMLSNGKDSNGTDLWWAMKENGTY
1111111111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0
>D0VX21_3gh5_0_504
MASMMSFIPESASASTSQPSILPKPVSYTVGSGQFVLTKNASIFVAGNNVGETDELFNIGQALAKKLN
ASTGYTISVVKSNQPTAGSIYLTTVGGNAALGNEGYDLITTSNQVTLTANKPEGVFRGNQTLLQLLPA
GIEKNTVVSGVQWVIPHSNISDKPEYEYRGLMLDVARHFFTVDEVKRQIDLASQYKINKFHMHLSDD
QGWRIEIKSWPDLIEIGSKGQVGGGPGGYYTQEQFKDIVSYAAERYIEVIPEIDMPGHTNAALASYGEL
NPDGKRKAMRTDTAVGYSTLMPRAEITYQFVEDVISELAAISPSPYIHLGGDESNATSAADYDYFFGR
VTAIANSYGKKVVGWDPSDTSSGATSDSVLQNWTCSASTGTAAKAKGMKVIVSPANAYLDMKYYSD
SPIGLQWRGFVNTNRAYNWDPTDCIKGANIYGVESTLWTETFVTQDHLDYMLYPKLLSNAEVGWT
ARGDRNWDDFKERLIEHTPRLQNKGIKFFADPIV
0000111111111111000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000
>A0FCI1_2yp4_16_518
QKLPGNDNSTATLCLGHHAVPNGTIVKTITNDQIEVTNATELVQSSSTGGICDSPHQILDGENCTLIDA
LLGDPQCDGFQNKKWDLFVERSKAYSNCYPYDVPDYASLRSLVASSGTLEFNNESFNWTGVTQNGT
SSACKRRSNNSFFSRLNWLTHLKFKYPALNVTMPNNEKFDKLYIWGVHHPGTDNDQISLYAQASGRI
TVSTKRSQQTVIPNIGSRPRVRDIPSRISIYWTIVKPGDILLINSTGNLIAPRGYFKIRSGKSSIMRSDAPI
GKCNSECITPNGSIPNDKPFQNVNRITYGACPRYVKQNTLKLATGMRNVPEKQTRGIFGAIAGFIENG
WEGMVDGWYGFRHQNSEGIGQAADLKSTQAAINQINGKLNRLIGKTNEKFHQIEKEFSEVEGRIQD
LEKYVEDTKIDLWSYNAELLVALENQHTIDLTDSEMNKLFERTKKQLRENAEDMGNGCFKIYHKCD
NACIGSIRNGTYDHDVYRDEALNNRFQIK
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000
>Q0PCD7_2ipi_43_544
DGGACGARTALVKVDRVDRRYQDLVTRGFNGRFRGRPDVVYVVHTADQVVDAVNQAMAAGQRIAV
RSGGHCFEGFVDDPAVRAVIDMSQMRQVFYDSGKRAFAVEPGATLGETYRALYLDWGVTIPAGVCPQ
VGVGGHVLGGGYGPLSRRDGVVADHLYAVEVVVVDASGRARKVVATSAADDPNRELWWAHTGGGG
GNFGIVTRYWFRTPGATGTDPSQLLPKAPTSTLRHIVTWDWSALTEEAFTRIIDNHGAWHQSNSAA
GTPYASMHSVFYLNSRAAGQILLDIQIDGGLDGAEALLNDFVAAVNEGTGVEPAVQRSTEPWLRATL
ANKFDTGGFDRTKSKGAYLRKPWTAAQAATLYRHLSADSQVWGEVSLYSYGGKVNSVPETATATAQ
RDSIIKVWMSATWMDPAHDDANLAWIREIYREIFATTGGVPVPDDRTEGTFINYPDVDLVDERWNT
SGVPWYTLYYKGNYPRLQKVKARWDPRDVFRHALSVRPPG
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00001
>Q8FHD0_4im7_0_485
MGNHLLSAKATLPVYDRNNLAPRIVHLGFGAFHRAHQGVYADILATEHFSDWGYYEVNLIGGEQQI
ADLQQQDNLYTVAEMSADAWTARVVGVVKKALHVQIDGLETVLAAMCEPQIAIVSLTITEKGYFHSP

ATGQLMLDHPMVVADVQNPHQPKTATGVIVEALARRKAAGLPAFTVMSCDNMPENGHVMRDVVT
SYAQAIDVKLAQWIEDNVTFPSTMVDRIVPAVTEDTLAKIEQLTGVRDAAGVACEPFRQWVIEDNFV
AGRPEWEKAGAELVSDVLPYEEMKLRMLNGSHSFLAYLGYLAGYQHINDCMEDEHYRHAAYTLML
QEQAPTLKVQGVDLQDYANRLIERYSNPALRHRTWQIAMDGSQKLPQRMLDSVRWHLAHDSKFDL
LALGVAGWMRYVGGVDEQGNPIEISDPLLPVIQKAVQSSAEGTARVQSLLAIKAIFGDDLPGNSLFTT
KVTEAYLSLLAHGAKATVAKYSVK
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>Q8FLC3_3ed4_18_508
ASLIGLAVCTGNAFSPALAAEAKQPNLVIIMADDLGYGDLATYGHQIVKTPNIDRLAQEGVKFTDYYA
PAPLSSPSRAGLLTGRMPFRTGIRSWIPSGKDVALGRNELTIANLLKAQGYDTAMMGKLHLNAGGDR
TDQPQAQDMGFDYSLANTAGFVTDATLDNAKERPRYGMVYPTGWLRNGQPTPRADKMSGEYVSS
EVVNWLDNKKDSKPFFLYVAFTEVHSPLASPKKYLDMYSQYMSAYQKQHPDLFYGDWADKPWRGV
GEYYANISYLDAQVGKVLDKIKAMGEEDNTIVIFTSDNGPVTREARKVYELNLAGETDGLRGRKDNL
WEGGIRVPAIIKYGKHLPQGMVSDTPVYGLDWMPTLAKMMNFKLPTDRTFDGESLVPVLEQKALK
REKPLIFGIDMPFQDDPTDEWAIRDGDWKMIIDRNNKPKYLYNLKSDRYETLNLIGKKPDIEKQMY
GKFLKYKTDIDNDSLMKARGDKPEAVTWG
11111111111000001111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>P05177_2hi4_26_513
VLKGLRPRVPKGLKSPPEPWGWPLLGHVLTLGKNPHLALSRMSQRYGDVLQIRIGSTPVLVLSRLDTI
RQALVRQGDDFKGRPDLYTSTLITDGQSLTFSTDSGPVWAARRRLAQNALNTFSIASDPASSSSCYLE
EHVSKEAKALISRLQELMAGPGHFDPYNQVVVSVANVIGAMCFGQHFPESSDEMLSLVKNTHEFVE
TASSGNPLDFFPILRYLPNPALQRFKAFNQRFLWFLQKTVQEHYQDFDKNSVRDITGALFKHSKKGP
RASGNLIPQEKIVNLVNDIFGAGFDTVTTAISWSLMYLVTKPEIQRKIQKELDTVIGRERRPRLSDRP
QLPYLEAFILETFRHSSFLPFTIPHSTTRDTTLNGFYIPKKCCVFVNQWQVNHDPELWEDPSEFRPE
RFLTADGTAINKPLSEKMMLFGMGKRRCIGEVLAKWEIFLFLAILLQQLEFSVPPGVKVDLTPIYGLT
MKHARCEHVQARRFSI
11111110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000001
>P35557_4dch_0_464
MLDDRARMEAAKKEKVEQILAEFQLQEEDLKKVMRRMQKEMDRGLRLETHEEASVKMLPTYVRS
TPEGSEVGDFLSLDLGGTNFRVMLVKVGEGEEGQWSVKTKHQMYSIPEDAMTGTAEMLFDYISECIS
DFLDKHQMKHKKLPLGFTFSFPVRHEDIDKGILLNWTKGFKASGAEGNNVVGLLRDAIKRRGDFEM
DVVAMVNDTVATMISCYYEDHQCEVGMIVGTGCNACYMEEMQNVELVEGDEGRMCVNTEWGAFG
DSGELDEFLLEYDRLVDESSANPGQQLYEKLIGGKYMGELVRLVLLRLVDENLLFHGEASEQLRTRGA
FETRFVSQVESDTGDRKQIYNILSTLGLRPSTTDCDIVRRACESVSTRAAHMCSAGLAGVINRMRESR
SEDVMRITVGVDGSVYKLHPSFKERFHASVRRLTPSCEITFIESEEGSGRGAALVSAVACKKACMLGQ
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000001100000000000000000000000000000000000000000000
00000000001111111111111111111111100000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>P06278_1vjs_29_511
ANLNGTLMQYFEWYMPNDGQHWKRLQNDSAYLAEHGITAVWIPPAYKGTSQADVGYGAYDLYDLG
EFHQKGTVRTKYGTKGELQSAIKSLHSRDINVYGDVVINHKGGADATEDVTAVEVDPADRNRVISGE
HRIKAWTHFHFPGRGSTYSDFKWHWYHFDGTDWDESRKLNRIYKFQGKAWDWEVSNENGNYDY
LMYADIDYDHPDVAAEIKRWGTWYANELQLDGFRLDAVKHIKFSFLRDWVNHVREKTGKEMFTVA
EYWQNDLGALENYLNKTNFNHSVFDVPLHYQFHAASTQGGGYDMRKLLNSTVVSKHPLKAVTFVD
NHDTQPGQSLESTVQTWFKPLAYAFILTRESGYPQVFYGDMYGTKGDSQREIPALKHKIEPILKARKQ
YAYGAQHDYFDHHDIVGWTREGDSSVANSGLAALITDGPGGAKRMYVGRQNAGETWHDITGNRSE
PVVINSEGWGEFHVNGGSVSIYVQR
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>Q2SWH9_3v7n_0_482
MNYISTRGAGIGERHTFSDILLGGLAKDGGLYLPSEYPQVSADELARWRTLPYADLAFEILSKFCDDIA
AADLRAITRRTYTADVYRHARRGGNAADITPLTTLGTENGAPVSLLELSNGPTLAFKDMAMQLLGN
LFEYTLAKHGETLNILGATSGDTGSAAEYAMRGKEGVRVFMLSPHKKMSAFQTAQMYSLQDPNIFN
LAVNGVFDDCQDIVKAVSNDHAFKAQQKIGTVNSINWARVVAQVVYYFKGYFAATRSNDERVSFTVP
SGNFGNVCAGHIARMMGLPIEKLVVATNENDVLDEFFRTGAYRVRSAQDTYHTSSPSMDISKASNFE
RFVFDLLGRDPARVVQLFRDVEQKGGFDLAASGDFARVAEFGFVSGRSTHADRIATIRDVFERYRTMI
DTHTADGLKVAREHLRPGVPMVVLETAQPIKFGESIREALGQEPSRPAAFDGLEALPQRFEVVDANA
QQVKDFIAAHTGA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111111111111111100000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>P05031_3k40_35_509
MEAPEFKDFAKTMVDFIAEYLENIRERRVLPEVKPGYLKPLIPDAAPEKPEKWQDVMQDIERVIMP
GVTHWHSPKFHAYFPTANSYPAIVADMLSGAIACIGFTWIASPACTELEVVMMDWLGKMLELPAEF
LACSGGKGGGVIQGTASESTLVALLGAKAKKLKEVKELHPEWDEHTILGKLVGYCSDQAHSSVERAGL
LGGVKLRSVQSENHRMRGAALEKAIEQDVAEGLIPFYAVVTLGTTNSCAFDYLDECGPVGNKHNLWI
HVDAAYAGSAFICPEYRHLMKGIESADSFNFNPHKWMLVNFDCSAMWLKDPSWVVNAFNVDPLYL
KHDMQGSAPDYRHWQIPLGRRFRALKLWFVLRLYGVENLQAHIRRHCNFAKQFGDLCVADSRFELA
AEINMGLVCFRLKGSNERNEALLKRINGRGHIHLVPAKIKDVYFLRMAICSRFTQSEDMEYSWKEVS
AAADEMEQEQ
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111111111111111111111111110000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>B3FRL6_2x8t_0_468
MFNRLFRVCFLAALIMAFTLPNSVYAQKPIFKEVSVHDPSIIETNGTFYVFGSHLASAKSNDLMQWQ
QLTTSVSNDNPLIPNVYEELKETFEWAQSDTLWAADVTQLADGKYYMYYNACRGDSPRSAMGVAVA
DNIEGPYKNKGIFLKSGMEGTSSDGTPYDATKHPNVVDPHTFFDKDGKLWMVYGSYSGGIFILEMN
PKTGFPLPGQGYGKKLLGGNHSRIEGPYVLYNPDTQYYYLYLSYGGLDATGGYNIRVARSKKPDGPYY
DAEGNPMLDVRGKGGTFFDDRSIEPYGVKLMGSYTFETENEKGTGYVSPGHNSAYYDEKTGRSYLIF
HTRFPGRGEEHEVRVHQLFMNKDGWPVAAPYRYAGETLKEVKQKDITGTYKLIQHGKDISADIKQTI
NIQLNKNHTISGEMTGTWRKTGKNTADITLAGKKYNGVFLRQWDSVREKNVMTFSVLNTSGEAV
WGSK
1111111111111111111111111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>E2STD2_3ziy_31_498
ASAKLPGDFGPPRGEPIHAVLTSPPLVPPPVNRTYPAKVIVELEVVEKEMQISEGVSYTFWTFGGTVP
GSFIRVRQGDTVEFHLKNHPSSKMPHNIDLHGVTGPGGGAASSFTAPGHESQFTFKALNEGIYVYHC
ATAPVGMHIANGMYGLILVEPPEGLPKVDHEYYVMQGDFYTAGKYREKGLQPFDMEKAIDERPSYV
LFNGAEGALTGDKALHAKVGETVRIFVGNGGPNLVSSFHVIGAIFDQVRYEGGTNVQKNVQTTLIPAG
GAAVVKFTARVPGSYVLVDHSIFRAFNKGAMAILKIDGAENKLVYSGKELDSVYLGDRAAPNMSAVT
KATQASVSGTLTVQDQVQAGRALFAGTCSVCHQGNGAGLPGVFPPLAKSDFLAADPKRAMNIVLHGL
NGKIKVNGQEYDSVMPPMTQLNDDEVANILTYVLNSWDNPGGRVSAEDVKKVRAQPAPAKAVAEH

11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011111111
>Q8A169_3gza_18_459
AQQQELPVPKPHQLKWHEAEMGAVFHYDLHVFDGIRYGQGNNRINPIEDYNIFNPTELNTDQWVQ
AAKAAGCKFAVLTATHETGFGLWQSDVNPYCLKAVKWRDGKGDIVRDFVNSCRKYGLQPGIYIGIRW
NSLLGIHNFKAEGEGAFARNRQAWYKRLCEKMVTELCTRYGDLYMIWFDGGADDPRADGPDVEPI
VNKYQPNCLFYHNIDRADFRWGGSETGTVEYPCWSTFPVPCSHHKRIESSIDQLELLKHGDKNGRY
WVPAMADTPLRGANGRHEWFWEPDDENNIYPLNTLMDKYEKSVGRNATLILGLTPDPTGLIPAGD
AQRLKEMGDEINRRFSSPIARISGQKKSLTLKLGKEQSVNYCIIQENIKNGERIRQYQIEAKVNGKWQ
TVCKGESVGHKRIEKFEPVEATALRLTVSESIALPDIINFSAYSVK
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>O53665_3v1t_0_453
MAPKRSSDLFSQVVNSGPGSFLARQLGVPQPETLRRYRAGEPPLTGSLLIGGAGRVVEPLRAALEKDY
DLVGNNLGGRWADSFGGLVFDATGITEPAGLKGLHEFFTPVLRNLGRCGRVVVVGGTPEAAASTNER
IAQRALEGFTRSLGKELRRGATTALVYLSPDAKPAATGLESTMRFLLSAKSAYVDGQVFSVGADDSTP
PADWEKPLDGKVAIVTGAARGIGATIAEVFARDGAHVVAIDVESAAENLAETASKVGGTALWLDVTA
DDAVDKISEHLRDHHGGKADILVNNAGITRDKLLANMDDARWDAVLAVNLLAPLRLTEGLVGNGSI
GEGGRVIGLSSIAGIAGNRGQTNYATTKAGMIGITQALAPGLAAKGITINAVAPGFIETQMTAAIPLATR
EVGRRLNSLLQGGQPVDVAEAIAYFASPASNAVTGNVIRVCGQAMIGA
11111111111111111111111111110000000000000000000000000000000000000000000
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000111111110000000000000000000000
0000000000000000000000000000
>P00926_3ss9_0_441
MENAKMNSLIAQYPLVKDLVALKETTWFNPGTTSLAEGLPYVGLTEQDVQDAHARLSRFAPYLAKA
FPETAATGGIIESELVAIPAMQKRLEKEYQQPISGQLLLKKDSHLPISGSIKARGGIYEVLAHAEKLALE
AGLLTLDDDYSKLLSPEFKQFFSQYSIAVGSTGNLGLSIGIMSARIGFKVTVHMSADARAWKKAKLRS
HGVTVVEYEQDYGVAVEEGRKAAQSDPNCFFIDDENSRTLFLGYSVAGQRLKAQFAQQGRIVDADNP
LFVYLPCGVGGGPGGVAFGLKLAFGDHVHCFFAEPTHSPCMLLGVHTGLHDQISVQDIGIDNLTAAD
GLAVGRASGFVGRAMERLLDGFYTLSDQTMYDMLGWLAQEEGIRLEPSALAGMAGPQRVCASVSYQ

QMHGFSAEQLRNTTHLVWATGGGMVPEEEMNQYLAKGR
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>A8IW39_3qgu_0_440
MQLNVRSTASGARSSTRSRRMTAVVQAVAQRAGTIDVQRNENFGKLRAGYLFPEIARRRKAHQEKN
PDAKIISLGIGDTTEPLPKYIADAMAKAAAGLATREGYSGYGAEQGQGALREAVASTFYGHAGRAADE
IFISDGSKCDIARIQMMFGSKPTVAVQDPSYPVYVDTSVMMGMTGDHNGTGFDGIEYMVCNPDNHF
FPDLSKAKRTDIIFFCSPNNPTGAAATRAQLTELVNFARKNGSILVYDAAYALYISNPDCPKTIYEIPGA
DEVAIETCSFSKYAGFTGVRLGWTVVPKALKYANGEPVHADWNRVMTTCFNGASNIVQAGGLACLQ
PEGLKEMNAMIKFYKENAQILKTTFTEMGFSVYGGDDAPYIWVGFPGKPSWDVFAEILERCNIVTTP
GSGFGPAGEGFVRASAFGSRENILEAVRRFKEAYGKRN
11111111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000111
>Q8P3K2_2hxt_0_440
MRTIIALETHDVRFPTSRELDGSDAMNPDPDYSAAYVVLRTDGAEDLAGYGLVFTIGRGNDVQTAAV
AALAEHVVGLSVDKVIADLGAFARRLTNDSQLRWLGPEKGVMHMAIGAVINAAWDLAARAANKPL
WRFIAELTPEQLVDTIDFRYLSDALTRDEALAILRDAQPQRAARTATLIEQGYPAYTTSPGWLGYSDE
KLVRLAKEAVADGFRTIKLKVGANVQDDIRRCRLARAAIGPDIAMAVDANQRWDVGPAIDWMRQLA
EFDIAWIEEPTSPDDVLGHAAIRQGITPVPVSTGEHTQNRVVFKQLLQAGAVDLIQIDAARVGGVNEN
LAILLLAAKFGVRVFPHAGGVGLCELVQHLAMADFVAITGKMEDRAIEFVDHLHQHFLDPVRIQHGR
YLAPEVPGFSAEMHPASIAEFSYPDGRFWVEDLAASKAKA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000111111
>B4EL89_2y4o_0_439
MTHPTHPAAALEPIETASRDELQALQLERLKWSLRHAYDNVPHYRRTFDAAGVHPDDLKSLADLA
KFPFSTKNDLRDNYPFGLFAVPREQVVRVHASSGTTGKPTVVGYTARDIDTWANVTARSIRAAGGRP
GDTLHNAFGYGLFTGGLGIHYGAERLGCMVVPMSGGQTEKQVQLIRDFEPKIILVTPSYMLNLIDEM
VRQGMDPAESSLKIGIFGAEPWTQALRNEVETRVGIDALDIYGLSEVMGPGVACECVETKDGPVIWE
DHFYPEIIDPVTGEVLPDGSQGELVFTSLTKEAMPVIRYRTRDLTALLPPTARAMRRLAKITGRSDDM

LIVRGVNVFPSQIEEIVVALPLLSGQFQITLSRDGHMDRLDLAVELRSEAAASVTDGERAALARELQH
RIKTMVGVSSGVTVLAAGGIPATATGKARRVIDRRQAA
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000011
>P27395_2z83_1684_2122
PNMLRKRQMTVLDLHPGSGKTRKILPQIIKDAIQQRLRTAVLAPTRVVAAEMAEALRGLPVRYQTSA
VQREHQGNEIVDVMCHATLTHRLMSPNRVPNYNLFVMDEAHFTDPASIAARGYIATKVELGEAAAI
FMTATPPGTTDPFPDSNAPIHDLQDEIPDRAWSSGYEWITEYAGKTVWFVASVKMGNEIAMCLQRA
GKKVIQLNRKSYDTEYPKCKNGDWDFVITTDISEMGANFGASRVIDCRKSVKPTILEEGEGRVILGNP
SPITSASAAQRRGRVGRNPNQVGDEYHYGGATSEDDSNLAHWTEAKIMLDNIHMPNGLVAQLYGPE
REKAFTMDGEYRLRGEEKKNFLELLRTADLPVWLAYKVASNGIQYTDRKWCFDGPRTNAILEDNTE
VEIVTRMGERKILKPRWLDARVYADHQALKWFKDFAAGKR
00000000000000000000000000000000000000000000000000000000000000111111
11000000000000000000001000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000001
>Q8U8Z6_2puz_0_418
MPGNNSAKGTATGNATALWRNAQLATLNPAMDGIGAVENAVIAVRNGRIAFAGPESDLPDDLSTAD
ETTDCGGRWITPALIDCHTHLVFGGNRAMEFEMRLNGATYEEIAKAGGGIVSSVRDTRALSDEVLVA
QALPRLDTLLSEGVSTIEIKSGYGLDIETELKMLRVARRLETLRPVRIVTSYLAAHATPADYKGRNADY
ITDVVLPGLEKAHAEGLADAVDGFCEGIAFSVKEIDRVFAAAQQRGLPVKLHAEQLSNLGGAELAASY
NALSADHLEYLDETGAKALAKAGTVAVLLPGAFYALREKQLPPVQALRDAGAEIALATDCNPGTSPL
TSLLLTMNMGATLFRMTVEECLTATTRNAAKALGLLAETGTLEAGKSADFAIWDIERPAELVYRIGF
NPLHARIFKGQKVSP
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>Q92ZP9_3vca_0_411
MTANPTSIHQRLDRRLSGFSLEQPFYTSPEVYALDLQHIFYKQWLYAVPVCQLAKAGSYTTLRVGAYE
VVIVRSRDGEVRAFHNSCRHRGSLICKARQGQVAKLVCPYHQWTYELDGKLIWANDMGPDFDASKY
GLKPVNLRNLDGLIYICLSDTPPDFQTFAQLARPYLEVHDLKDAKVAFTSTIIEKGNWKLVWENNRE
CYHCSSNHPALCRSFPLDPEVAGVQADGGVSKKLQAHFDRCEAAGTPAQFVLAGDGQYRLARMPLQ
EKALSYTMDGKAAVSRHLGRVAPPDAGTLLMFHYPSTWNHFLPDHSLTFRVMPISPTETEVTTTWL

VHKDAVEGVDYDLKRLTEVWIATNDEDREIVETNQQGILSPAYVPGPYSPGQESGVMQFVDWYAAS
LERALAPRQVAAE
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000111111
>P29717_2pbo_38_437
GGGHNVAWDYDNNVIRGVNLGGWFVLEPYMTPSLFEPFQNGNDQSGVPVDEYHWTQTLGKEAAS
RILQKHWSTWITEQDFKQISNLGLNFVRIPIGYWAFQLLDNDPYVQGQVQYLEKALGWARKNNIRV
WIDLHGAPGSQNGFDNSGLRDSYNFQNGDNTQVTLNVLNTIFKKYGGNEYSDVVIGIELLNEPLGPV
LNMDKLKQFFLDGYNSLRQTGSVTPVIIHDAFQVFGYWNNFLTVAEGQWNVVVDHHHYQVFSGGE
LSRNINDHISVACNWGWDAKKESHWNVAGEWSAALTDCAKWLNGVNRGARYEGAYDNAPYIGSC
QPLLDISQWSDEHKTDTRRYIEAQLDAFEYTGGWVFWSWKTENAPEWSFQTLTYNGLFPQPVTDR
QFPNQCGFH
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>Q8E372_3anj_0_397
MMKIKPVKVESIENPKRFLNSRLLTKIEVEEAIEKALKQLYINIDYFGEEYPTPATFNNIYKVMDNTE
WTNGFWTGCLWLAYEYNQDKKLKNIAHKNVLSFLNRINNRIALDHHDLGFLYTPSCTAEYRINGDV
KALEATIKAADKLMERYQEKGGFIQAWGELGYKEHYRLIIDCLLNIQLLFFAYEQTGDEKYRQVAVNH
FYASANNVVRDDSSAFHTFYFDPETGEPLKGVTRQGYSDESSWARGQAWGIYGIPLSYRKMKDYQQI
ILFKGMTNYFLNRLPEDKVSYWDLIFTDGSGQPRDTSATATAVCGIHEMLKYLPEVDPDKETYKYAM
HTMLRSLIEQYSNNELIAGRPLLLHGVYSWHSGKGVDEGNIWGDYYYLEALIRFYKDWELYW
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000011111111111111111111100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>Q9IGQ6_3cye_82_468
VILTGNSSLCPISGWAIYSKDNGIRIGSKGDVFVIREPFISCSHLECRTFFLTQGALLNDKHSNGTVKDR
SPYRTLMSCPVGEAPSPYNSRFESVAWSASACHDGMGWLTIGISGPDNGAVAVLKYNGIITDTIKSWR
NNILRTQESECACVNGSCFTIMTDGPSNGQASYKILKIEKGKVTKSIELNAPNYHYEECSCYPDTGKV
MCVCRDNWHGSNRPWVSFDQNLDYQIGYICSGVFGDNPRPNDGTGSCGPVSSNGANGIKGFSFRYD
NGVWIGRTKSTSSRSGFEMIWDPNGWTETDSSFSVRQDIVAITDWSGYSGSFVQHPELTGLDCMRP
CFWVELIRGQPKENTIWTSGSSISFCGVNSDTVGWSWPDGAELPFSIDK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>Q13838_1xti_43_427
SSGFRDFLLKPELLRAIVDCGFEHPSEVQHECIPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVT
GQVSVLVMCHTRELAFQISKEYERFSKYMPNVKVAVFFGGLSIKKDEEVLKKNCPHIVVGTPGRILAL
ARNKSLNLKHIKHFILDECDKMLEQLDMRRDVQEIFRMTPHEKQVMMFSATLSKEIRPVCRKFMQ
DPMEIFVDDETKLTLHGLQQYYVKLKDNEKNRKLFDLLDVLEFNQVVIFVKSVQRCIALAQLLVEQN
FPAIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIAFNYDMPEDSDTYLHRVARA
GRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDISSYIEQTR
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000011
>A8LS88_3sqs_0_390
MTKIKSVRTRVWNWTGPTVPPQGNFCTNASDALWIQGDAMASFRFHQWLTCEVETEDGTIGIGNA
ALAPNVVKQAIDEWYAPLVIGEDPFDYAYLWEKMYRRTHAWGRKGIGMTAISAIDIAIWDLMGKLV
GKPVFKLLGGRTKEKIPVYYSKLYADSIPAMQAEAEEAQKHGYQGYKTRFGYGPKDGPAGMRENLKR
VEALREVLGYDVDLMLECYMGWNLDYTKRMLPKLERFEPRWLEEPVIADDVAGYAELNAMGIVPIS
GGEHEFSVMGCAELINRKAVSVLQYDTNRVGGITAAQKINAIAEAAQIIVIPHAGQMHNYHLTMANM
NCPISEYFPVFDVEVGNELFYYIFDGDPEAVDGYLQLDDDTPGLGITISDAHLKHFEITE
00000000000000000000000000000000000111110000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>Q8DUI5_3sqz_0_390
MRIGIDKIGFTSSQYVLNMKDLAEARGEDPQKFSKGLLLNALSIAPITDDVVTLAAGSANEILTAEDK
EKIDMVILATESSVDQSKAGAVYVHSLLGIQPFARSFEMKEACYSATAALNYAKLHVEKHPDTRVLVL
ASDIAKYGIGTPGESTQGAGSIAMLVKKDPRILILHDETLAQTRDIMDFWRPNYTTTPYVNGMYSTK
QYLDMLKTTWAEYQKRFDVSLTDFAAFCFHLPFPKLALKGFNKIMDKQVPSDLQEKLKVNFEASILY
SKQIGNIYTGSLFLGLLSLLENSQNLVAGDKIALFSYGSGAVAEIFTGTLVKGFKEQLQTNRLDKLKRRT
PLSVENYEKIFFEEAQLDDKGNASFKEYQTGPFALKEILEHQRIYGKVNES
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000111
>P42907_3c3j_0_383

MPENYTPAAAATGTWTEEEIRHQPRAWIRSLTNIDALRSALNNFLEPLLRKENLRIILTGAGTSAFIG
DIIAPWLASHTGKNFSAVPTTDLVTNPMDYLNPAHPLLLISFGRSGNSPESVAAVELANQFVPECYHL
PITCNEAGALYQNAINSDNAFALLMPAETHDRGFAMTSSITTMMASCLAVFAPETINSQTFRDVADR
CQAILTSLGDFSEGVFGYAPWKRIVYLGSGGLQGAARESALKVLELTAGKLAAFYDSPTGFRHGPKSL
VDDETLVVVFVSSHPYTRQYDLDLLAELRRDNQAMRVIAIAAESSDIVAAGPHIILPPSRHFIDVEQAF
CFLMYAQTFALMQSLHMGNTPDTPSASGTVNRVVQGVIIHPWQA
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000011111111111000000000
>P71703_1gr0_0_366
MSEHQSLPAPEASTEVRVAIVGVGNCASSLVQGVEYYYNADDTSTVPGLMHVRFGPYHVRDVKFVAA
FDVDAKKVGFDLSDAIFASENNTIKIADVAPTNVIVQRGPTLDGIGKYYADTIELSDAEPVDVVQALKE
AKVDVLVSYLPVGSEEADKFYAQCAIDAGVAFVNALPVFIASDPVWAKKFTDARVPIVGDDIKSQVGA
TITHRVLAKLFEDRGVQLDRTMQLNVGGNMDFLNMLERERLESKKISKTQAVTSNLKREFKTKDV
HIGPSDHVGWLDDRKWAYVRLEGRAFGDVPLNLEYKLEVWDSPNSAGVIIDAVRAAKIAKDRGIGG
PVIPASAYLMKSPPEQLPDDIARAQLEEFIIG
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111111111111111110000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000
>Q9UJM8_2rdt_0_369
MLPRLICINDYEQHAKSVLPKSIYDYYRSGANDEETLADNIAAFSRWKLYPRMLRNVAETDLSTSVL
GQRVSMPICVGATAMQRMAHVDGELATVRACQSLGTGMMLSSWATSSIEEVAEAGPEALRWLQLYI
YKDREVTKKLVRQAEKMGYKAIFVTVDTPYLGNRLDDVRNRFKLPPQLRMKNFETSTLSFSPEENF
GDDSGLAAYVAKAIDPSISWEDIKWLRRLTSLPIVAKGILRGDDAREAVKHGLNGILVSNHGARQLDG
VPATIDVLPEIVEAVEGKVEVFLDGGVRKGTDVLKALALGAKAVFVGRPIVWGLAFQGEKGVQDVLEI
LKEEFRLAMALSGCQNVKVIDKTLVRKNPLAVSKI
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111111111111000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000001111111
>P32816_1jpu_0_369
MAAERVFISPAKYVQGKNVITKIANYLEGIGNKTVVIADEIVWKIAGHTIVNELKKGNIAAEEVVFSG
EASRNEVERIANIARKAEAAIVIGVGGGKTLDTAKAVADELDAYIVIVPTAASTDAPTSALSVIYSDDG
VFESYRFYKKNPDLVLVDTKIIANAPPRLLASGIADALATWVEARSVIKSGGKTMAGGIPTIAAEAIAE
KCEQTLFKYGKLAYESVKAKVVTPALEAVVEANTLLSGLGFESGGLAAAHAIHNGFTALEGEIHHLTH
GEKVAFGTLVQLALEEHSQQEIERYIELYLSLDLPVTLEDIKLKDASREDILKVAKAATAEGETIHNAF

NVTADDVADAIFAADQYAKAYKEKHRK
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000011111000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000011
>O13437_2j6i_1_363
KIVLVLYDAGKHAADEEKLYGCTENKLGIANWLKDQGHELITTSDKEGETSELDKHIPDADIIITTPF
HPAYITKERLDKAKNLKLVVVAGVGSDHIDLDYINQTGKKISVLEVTGSNVVSVAEHVVMTMLVLVR
NFVPAHEQIINHDWEVAAIAKDAYDIEGKTIATIGAGRIGYRVLERLLPFNPKELLYYDYQALPKEAEE
KVGARRVENIEELVAQADIVTVNAPLHAGTKGLINKELLSKFKKGAWLVNTARGAICVAEDVAAALES
GQLRGYGGDVWFPQPAPKDHPWRDMRNKYGAGNAMTPHYSGTTLDAQTRYAEGTKNILESFFTG
KFDYRPQDIILLNGEYVTKAYGKHDKK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000111
11111111
>D0CB74_3zpg_0_360
MSELKQDQYWMQQAIELAKRGLYSTKPNPNVGCVIVKDDQLIGEGFHPKAGQPHAEVFALRQAGEQ
AQGATAYVTLEPCAHYGRTPPCAEALVKAQVKKVVVACPDPNPLVAGKGVQILKNAGIEVEIGICEDL
AAKLNQGFLKAMSTGMPYVRLKVASSLDGRTAMASGESKWITGSAARQDVQHWRAISGAVITGIDT
VIADDCQLNVRSLHNIDIETVAQPKRVILDRRGRLPLTAKILENPETVMVMGPYRQELADLGVIQLEI
QPLKTLLQTLSKQYQIYDVLIEAGATLSSAFLQEGLIDEMISYVAPTLLGQSARAMFNADFEYMAQQL
RFKLLDVIQLDQDIRLRLIPTQEKV
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001100000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
001111
>Q5LGG4_3scy_24_383
AQPTDPSTTDSELTMLVGTYTSGNSKGIYTFRFNEETGESLPLSDAEVANPSYLIPSADGKFVYSVNEF
SKDQAAVSAFAFDKEKGTLHLLNTQKTMGADPCYLTTNGKNIVTANYSGGSITVFPIGQDGALLPAS
DVIEFKGSGPDKERQTMPHLHCVRITPDGKYLLADDLGTDQIHKFNINPNANADNKEKFLTKGTPE
AFKVAPGSGPRHLIFNSDGKFAYLINEIGGTVIAFRYADGMLDEIQTVAADTVNAQGSGDIHLSPDGK
YLYASNRLKADGVAIFKVDETNGTLTKVGYQLTGIHPRNFIITPNGKYLLVACRDTNVIQIFERDQATG
LLTDIKKDIKVDKPVCLKFVD
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000
>Q6S996_2r8q_581_939
QRNSITAQRAPKSVKVIAVTPEEREAVMSIDFGGAYDFTSPGFNLFEVREKYSEPMDAAAGVVYNLL
WNSGLPEKFGCREQTLLNFILQCRRRYRRVPYHNFYHVVDVCQTLHTYLYTGKASELLTELECYVLL
VTALVHDLDHMGVNNSFYLKTDSPLGILSSASGNNSVLEVHHCSLAIEILSDPAADVFEGLSGQDVAY
AYRALIDCVLATDMAKHADALSRFTELATSGFEKDNDTHRRLVMETLIKAGDVSNVTKPFETSRMW
AMAVTEEFYRQGDMEKEKGVEVLPMFDRSKNNELARGQIGFIDFVAGKFFRDIVGNLFHGMQWCV
DTVNSNRAKWQEILDGRRDSIRSSIV
11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011111
1111
>O24529_1fpx_0_351
MASSINGRKPSEIFKAQALLYKHIYAFIDSMSLKWAVEMNIPNIIQNHGKPISLSNLVSILQVPSSKIGN
VRRLMRYLAHNGFFEIITKEEESYALTVASELLVRGSDLCLAPMVECVLDPTLSGSYHELKKWIYEED
LTLFGVTLGSGFWDFLDKNPEYNTSFNDAMASDSKLINLALRDCDFVFDGLESIVDVGGGTGTTAKII
CETFPKLKCIVFDRPQVVENLSGSNNLTYVGGDMFTSIPNADAVLLKYILHNWTDKDCLRILKKCKE
AVTNDGKRGKVTIIDMVIDKKKDENQVTQIKLLMDVNMACLNGKERNEEEWKKLFIEAGFQHYKIS
PLTGFLSLIEIYP
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>G7CC99_4hdt_1_349
TAKNEDVLVNVEGGVGLLTLNRPKAINSLTHGMVTTMAERLAAWENDDSVRAVLLTGAGERGLCAG
GDVVAIYHSAKADGAEARRFWFDEYRLNAHIGRYPKPYVSIMDGIVMGGGVGVGAHGNVRVVTDTT
KMAMPEVGIGFIPDVGGTYLLSRAPGKLGLHAALTGAPFSGADAIVMGFADHYVPHDKIDEFTRAVI
ADGVDAALAAHAQEPPASPLAEQRSWIDECYTGDTVADIIAALRAHDAPAAGEAADLIATRSPIALSV
TLESVRRAAKLQSLEDTLRQEYRVSCASLKSHDLVEGIRAQLVDKDRNPKWRPATLAEVTEADVEAY
FAPVDPELTFEGETQ
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000111100000000000000000000000000000000011
>Q9L543_2plq_0_347
MRHGDISSSHDTVGIAVVNYKMPRLHTKAEVIENAKKIADMVVGMKQGLPGMDLVVFPEYSTMGI
MYDQDEMFATAASIPGEETAIFAEACKKADTWGVFSLTGEKHEDHPNKAPYNTLVLINNKGEIVQKY
RKIIPWCPIEGWYPGDTTYVTEGPKGLKISLIVCDDGNYPEIWRDCAMKGAELIVRCQGYMYPAKEQ
QIMMAKAMAWANNTYVAVANATGFDGVYSYFGHSAIIGFDGRTLGECGTEENGIQYAEVSISQIRDF

RKNAQSQNHLFKLLHRGYTGLINSGEGDRGVAECPFDFYRTWVLDAEKARENVEKITRSTVGTAEC
PIQGIPNEGKTKEIGV
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111
>P18654_3g51_43_366
EGSIKEIAITHHVKEGHEKADPSQFELLKVLGQGSFGKVFLVKKISGSDARQLYAMKVLKKATLKVRD
RVRTKMERDILVEVNHPFIVKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELAL
ALDHLHSLGIIYRDLKPENILLDEEGHIKLTDFGLSKESIDHEKKAYSFCGTVEYMAPEVVNRRGHTQ
SADWWSFGVLMFEMLTGTLPFQGKDRKETMTMILKAKLGMPQFLSPEAQSLLRMLFKRNPANRL
GAGPDGVEEIKRHSFFSTIDWNKLYRREIHPPFKPATGRPEDTFYFDPEFTAKTPK
11100000000000000000000000000000000000000000000000000000000001111
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001111111111111111111
>Q47511_3tlc_1_343
MIQSHPLLAAPLAVGDTIGFFSSSAPATVTAKNRFFRGVEFLQRKGFKLVSGKLTGKTDFYRSGTIKER
AQEFNELVYNPDITCIMSTIGGDNSNSLLPFLDYDAIIANPKIIIGYSDTTALLAGIYAKTGLITFYGPALI
PSFGEHPPLVDITYESFIKILTRKQSGIYTYTLPEKWSDESINWNENKILRPKKLYKNNCAFYGSGKVE
GRVIGGNLNTLTGIWGSEWMPEILNGDILFIEDSRKSIATIERLFSMLKLNRVFDKVSAIILGKHELFD
CAGSKRRPYEVLTEVLDGKQIPVLDGFDCSHTHPMLTLPLGVKLAIDFDNKNISITEQYLSTEK
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111
>Q8ZJF2_3n9i_0_341
MVLSKPTVSSKPIVFSGAQPSGELTIGNYMGALRQWVQMQDDYDCIYCIVDLHAITARQDPALLRKR
TLDTLALYLACGIDPKKSTIFVQSHVPEHSQLSWALNCYTYFGELSRMTQFKDKSARYAENINAGLFD
YPVLMAADILLYQTNQVPVGEDQKQHLELSRDIASRFNNLYGDIFKIPEPFIPKAGARVMSLQDPTKK
MSKSDDNRNNVIELLEDPKSVVKKIKRAMTDSDEPALIRYDVEKKAGVSNLLDILSGVTGQSIPELEA
QFTGQMYGHLKGAVADAVSGMLSELQERYRTYREDEALLQDVMREGAAKARARAQVTLAKVYEAI
GFVAQP
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>Q2JZD9_4dvj_0_340
MKAVGYNKPAPITDDASLLDIELPKPAPAGHDILVEVKAVSVNPVDYKVRRSTPPDGTDWKVIGYDA
AGIVSAVGPDVTLFRPGDEVFYAGSIIRPGTNAEFHLVDERIVGRKPKTLDWAEAAALPLTSITAWEA

FFDRLDVNKPVPGAAPAILIVGGAGGVGSIAVQIARQRTDLTVIATASRPETQEWVKSLGAHHVIDHS
KPLAAEVAALGLGAPAFVFSTTHTDKHAAEIADLIAPQGRFCLIDDPSAFDIMLFKRKAVSIHHELMF
TRPMFGTPDMSEQGRLLNDVSRLVDEGRLRTTLTNRLSPINAANLKQAHALVESGTARGKVVIEGFG
LQR
000000000000000000000000000000000000000000000000000100000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011
>P39840_3mwx_0_324
MANFIEKITYLGTPAIKAGNEHLEMIVVPEWGSNVISLVDKTTNVQLLREPETAESFHDTPTLYGIPIL
FPPNRISDGTFSFRGRTYHFDINEKDKHNHLHGFLYHEKWNVVTTKQTDEGVIVETEIDLSELPHVQ
KQFPHHAVVRMTYTIKENTLFKHATVMNKGKEAFPWGIGYHTTFIFPAESSLFSLTADQQWELDER
LLPTGKLMDVPYKEALHEGMDLRHKQLDDVFLSSYQKRGGENQAVIYHQHAHISIIYKADEQFKHW
VVYNADGKQGYLCPEPYTWVTNAVNLDLPSSLTGLQVLEPGEETTAKSSITIELNHQ
100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011
>Q05583_2hes_0_329
MASINLIKSLKLYKEKIWSFDFSQGILATGSTDRKIKLVSVKYDDFTLIDVLDETAHKKAIRSVAWRPH
TSLLAAGSFDSTVSIWAKEESADRTFEMDLLAIIEGHENEVKGVAWSNDGYYLATCSRDKSVWIWET
DESGEEYECISVLQEHSQDVKHVIWHPSEALLASSSYDDTVRIWKDYDDDWECVAVLNGHEGTVWS
SDFDKTEGVFRLCSGSDDSTVRVWKYMGDDEDDQQEWVCEAILPDVHKRQVYNVAWGFNGLIASV
GADGVLAVYEEVDGEWKVFAKRALCHGVYEINVVKWLELNGKTILATGGDDGIVNFWSLEKAA
110000000000000000000000000000000000000000000000000000000000000000
000000000000000011111110000000001111000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000001111100000000000000001111
>P10477_2wao_484_813
PDEDNPGILYNGRFDFSDPNGPKCAWSGSNVELNFYGTEASVTIKSGGENWFQAIVDGNPLPPFSVN
ATTSTVKLVSGLAEGAHHLVLWKRTEASLGEVQFLGFDFGSGKLLAAPKPLERKIEFIGDSITCAYGN
EGTSKEQSFTPKNENSYMSYAAITARNLNASANMIAWSGIGLTMNYGGAPGPLIMDRYPYTLPYSGV
RWDFSKYVPQVVVINLGTNDFSTSFADKTKFVTAYKNLISEVRRNYPDAHIFCCVGPMLWGTGLDLC
RSYVTEVVNDCNRSGDLKVYFVEFPQQDGSTGYGEDWHPSIATHQLMAERLTAEIKNKLGW
111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>P0A962_2p2d_0_337
MQKKSIYVAYTGGTIGMQRSEQGYIPVSGHLQRQLALMPEFHRPEMPDFTIHEYTPLMDSSDMTPE

DWQHIAEDIKAHYDDYDGFVILHGTDTMAYTASALSFMLENLGKPVIVTGSQIPLAELRSDGQINLL
NALYVAANYPINEVTLFFNNRLYRGNRTTKAHADGFDAFASPNLPPLLEAGIHIRRLNTPPAPHGEG
ELIVHPITPQPIGVVTIYPGISADVVRNFLRQPVKALILRSYGVGNAPQNKAFLQELQEASDRGIVVVN
LTQCMSGKVNMGGYATGNALAHAGVIGGADMTVEATLTKLHYLLSQELDTETIRKAMSQNLRGELT
PDD
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000001111
11000000000000000000000000000000000000000000001
>Q9GZT4_3l6b_2_339
AQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDAL
ERKPKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKR
VTEETEGIMVHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGGMLAGIAITVKALKPSVKVYAA
EPSNADDCYQSKLKGKLMPNLYPPETIADGVKSSIGLNTWPIIRDLVDDIFTVTEDEIKCATQLVWER
MKLLIEPTAGVGVAAVLSQHFQTVSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV
00000000000000000000000000000000000000000000000000000000000000011111
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111111
>P68400_3pe1_0_336
MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGRGKYSEVFEAINITNNEKV
VVKILKPVKKKKIKREIKILENLRGGPNIITLADIVKDPVSRTPALVFEHVNNTDFKQLYQTLTDYDIRF
YMYEILKALDYCHSMGIMHRDVKPHNVMIDHEHRKLRLIDWGLAEFYHPGQEYNVRVASRYFKGP
ELLVDYQMYDYSLDMWSLGCMLASMIFRKEPFFHGHDNYDQLVRIAKVLGTEDLYDYIDKYNIELD
PRFNDILGRHSRKRWERFVHSENQHLVSPEALDFLDKLLRYDHQSRLTAREAMEHPYFYTVVKDQA
RMGSS
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111111
>Q59643_1gzg_0_336
MSFTPANRAYPYTRLRRNRRDDFSRRLVRENVLTVDDLILPVFVLDGVNQRESIPSMPGVERLSIDQ
LLIEAEEWVALGIPALALFPVTPVEKKSLDAAEAYNPEGIAQRATRALRERFPELGIITDVALDPFTTH
GQDGILDDDGYVLNDVSIDVLVRQALSHAEAGAQVVAPSDMMDGRIGAIREALESAGHTNVRIMAYS
AKYASAYYGPFRDAVGSASNLGKGNKATYQMDPANSDEALHEVAADLAEGADMVMVKPGMPYLDI
VRRVKDEFRAPTFVYQVSGEYAMHMGAIQNGWLAESVILESLTAFKRAGADGILTYFAKQAAEQLRR
GR
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000011
>P17584_1dxy_0_332
MKIIAYGARVDEIQYFKQWAKDTGNTLEYHTEFLDENTVEWAKGFDGINSLQTTPYAAGVFEKMHA
YGIKFLTIRNVGTDNIDMTAMKQYGIRLSNVPAYSPAAIAEFALTDTLYLLRNMGKVQAQLQAGDYEK
AGTFIGKELGQQTVGVMGTGHIGQVAIKLFKGFGAKVIAYDPYPMKGDHPDFDYVSLEDLFKQSDVID
LHVPGIEQNTHIINEAAFNLMKPGAIVINTARPNLIDTQAMLSNLKSGKLAGVGIDTYEYETEDLLNL
AKHGSFKDPLWDELLGMPNVVLSPHIAYYTETAVHNMVYFSLQHLVDFLTKGETSTEVTGPAK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111
>Q4EFN5_3pnz_0_329
MSFIRTFYGDIAPEQLGFTYSHEHIVCVPAYWQERDADDLLLDDKEKSQLDVQDFADLGGKTIVDAT
AVDYGRRVLDVAQISKETGIQIVGTAGFNKSFLWDGKIKPELKPIIGDFETYYEWIENTTTDKLTEFVV
NEVENGLEGTPYKAGQVKFGTGYNMITPLEEKTIRAVARAHHETKAPIHSHTEAGTMALEQIEILKQ
ENIPLEYLSIGHMDRNLDPYYHKQVAKTGAFMSFDGIAKIKYAPESARIAAILYLVSEGFEDQILVSGDT
ARKTYYKHYGHGPGLEYIAKKWVPRFIDEANEKGFDGEKLVKKFFVDNPARCFTFKK
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000001
>Q9NXS2_3pb4_52_381
SGWHRRTEELPLGRELRVPLIGSLPEARLRRVVGQLDPQRLWSTYLRPLLVVRTPGSPGNLQVRKFL
EATLRSLTAGWHVELDPFTASTPLGPVDFGNVVATLDPRAARHLTLACHYDSKLFPPGSTPFVGATD
SAVPCALLLELAQALDLELSRAKKQAAPVTLQLLFLDGEEALKEWGPKDSLYGSRHLAQLMESIPHS
PGPTRIQAIELFMLLDLLGAPNPTFYSHFPRTVRWFHRLRSIEKRLHRLNLLQSHPQEVMYFQPGEP
FGSVEDDHIPFLRRGVPVLHLISTPFPAVWHTPADTEVNLHPPTVHNLCRILAVFLAEYLGL
11111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>Q60GU1_2dvu_0_326
MQGKVALEEHFAIPETLQDSAGFVPGDYWKELQHRLLDIQDTRLKLMDAHGIETMILSLNAPAVQAI
PDRRKAIEIARRANDVLAEECAKRPDRFLAFAALPLQDPDAATEELQRCVNDLGFVGALVNGFSQEG
DGQTPLYYDLPQYRPFWGEVEKLDVPFYLHPRNPLPQDSRIYDGHPWLLGPTWAFAQETAVHALRL
MASGLFDEHPRLNIILGHMGEGLPYMMWRIDHRNAWVKLPPRYPAKRRFMDYFNENFHITTSGNF
RTQTLIDAILEIGADRILFSTDWPFENIDHASDWFNATSIAEADRVKIGRTNARRLFKLDGA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000011
>C0STU6_4e9v_34_358
AEREFDMTIEEVTIKVAPGLDYKVFGFNGQVPGPLIHVQEGDDVIVNVTNNTSLPHTIHWHGVHQK
GTWRSDGVPGVTQQPIEAGDSYTYKFKADRIGTLWYHCHVNVNEHVGVRGMWGPLIVDPKQPLPI
EKRVTKDVIMMMSTWESAVADKYGEGGTPMNVADYFSVNAKSFPLTQPLRVKKGDVVKIRFFGAGG
GIHAMHSHGHDMLVTHKDGLPLDSPYYADTVLVSPGERYDVIIEADNPGRFIFHDHVDTHVTAGGK
HPGGPITVIEYDGVPVDDWYVWKDKDYDPNFFYSESLKQGYGMFDHDGFKGEFEQRQRRPGR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111111111
>Q59N78_2g9z_4_329
SEDSELIEQVIEQPDSLIISPPSDSSSSSYNHIQPFVYLESTATTQTNHNVLLILNQKITIDLISLWKKCEI
IVCADGGANSLYEYFNDNNHHHHHHENLQRSDYIPDYIVGDFDSISPDVKTYYESHGSKIIRQSSQYYN
DFTKSIHCIQLHYQLNHTKENWFESIDEVDGLAKLWNGLNNSSDVVVDIDITIYVLNAIGGRFDQTV
QSINQLYIMNEDYPKVTVFFITTNDIIFLLKKGVNYISYKNRLMFHKDNGSSPTPTCGLLPLSNKTPIIL
NSYGLKYDMRNWKTEMLGQVSSSNRISGETGFIVECSDDIVMNIEIDV
11100000000000000000011111100000000001111111110000000000000000000000
00000000000000001111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>Q99UY5_4h0a_23_344
SPRLKFDVLENPNKGNKVNRSEQVNKSNNHAENPKPKEGVGTWVGKDIKVLTSKFGQADRVYPFR
DGYKNYVFKDKNSYYIVSTKREEIVSVYATGEKVNVSPLKIGQHSAEIFNHTSINPEPSFKVDGKKYEF
ELSDEDLKTQTLIKYGDIYAQVYSDQQSKKVLSVRFLTKEMLADIEPYQLNSNSTSEEHNKRPVEQNP
NQLISLYEVTNEMRKLKGLKPLKINSDLAHIASNNLYEATSNGSDSVEFTEDALRGQLDKNHVTYKT
TAQNVGYAFNDVPTLIHSWMNSDIHRSRLLNSKYDEMGGDVMRDYYSLIFLEK
10000000000001111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111000000000000000000000000000000000000
00000000000000000000000000000000000000
>D0VWT0_3c1o_0_320
GSHMEKIIIYGGTGYIGKFMVRASLSFSHPTFIYARPLTPDSTPSSVQLREEFRSMGVTIIEGEMEEHEK
MVSVLKQVDIVISALPFPMISSQIHIINAIKAAGNIKRFLPSDFGCEEDRIKPLPPFESVLEKKRIIRRAI
EAAALPYTYVSANCFGAYFVNYLLHPSPHPNRNDDIVIYGTGETKFVLNYEEDIAKYTIKVACDPRCC
NRIVIYRPPKNIISQNELISLWEAKSGLSFKKVHMPDEQLVRLSQELPQPQNIPVSILHSIFVKGDLMS
YEMRKDDIEASNLYPELEFTSIDGLLDLFISGRAPPPTLAEFE
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000001111
>P29208_1r6w_0_319
MRSAQVYRWQIPMDAGVVLRDRRLKTRDGLYVCLREGEREGWGEISPLPGFSQETWEEAQSVLLA
WVNNWLAGDCELPQMPSVAFGVSCALAELTDTLPQAANYRAAPLCNGDPDDLILKLADMPGEKVA
KVKVGLYEAVRDGMVVNLLLEAIPDLHLRLDANRAWTPLKGQQFAKYVNPDYRDRIAFLEEPCKTR
DDSRAFARETGIAIAWDESLREPDFAFVAEEGVRAVVIKPTLTGSLEKVREQVQAAHALGLTAVISSSI
ESSLGLTQLARIAAWLTPDTIPGLDTLDLMQAQQVRRWPGSTLPVVEVDALERLL
00000000000000000001000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>Q9WYF8_2hpg_16_335
SAVFGAKYTLRFGHVLAPGEPYHQAFLKWAKAVEEKTNGDVRIEVFPSSQLGVEEDIIEQIRMGAPV
GWNTDSARLGMYVKDIGVMNLAYFIDFMGAKTPEEAIEVLKKIKQSPTMQKWLKELEQRFGIKVLS
FYWVQGYRHFVTNKPIRKPEDLNGLRIRTPGAPAWQESIRSLGAIPVAVNFGEIYTAVQTRAVDGAEL
TYANVYNGGLYEVLKYMSETGHFLLINFEIVSADWFNSLPKEYQKIIEEEMDKAGIEVSLKIMKELEE
EYKQKCIEKGMAVIPASEIDKEAFMEKAKQAYKNLGLENALNQLIKEVKGE
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>O68212_3qdh_198_487
NEAISVEKSIQEQKLNGYGVGSLIKFPVSSTAPTLDAKSFYKYFQLRDTLDDRLTAVTATEVSLEGTTL
DPTDYKVDTKGQTVTVTFTAEGLKKIKAAPGKKVSAVFQGKVTEARNGAITNRAQVISDTVYAEQPP
TPEEPPANPENPPTSNEVTSRWGDLLIKKVDNHQQGQDKAGLQGAQFQLYKAKNAYAGTCTKDKE
GDPIAINGETTLTTDAQGAINVKGLFISDSIDGANRDNQKDATARCYVLVETKAPAGYVLPAGDGAVT
PVKIEVGAVTTDNVTIENTKQ
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111110000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111000
000000
>P0AEL6_3tlk_0_317
MRLAPLYRNALLLTGLLLSGIAAVQAADWPRQITDSRGTHTLESQPQRIVSTSVTLTGSLLAIDAPVIA
SGATTPNNRVADDQGFLRQWSKVAKERKLQRLYIGEPSAEAVAAQMPDLILISATGGDSALALYDQLS
TIAPTLIINYDDKSWQSLLTQLGEITGHEKQAAERIAQFDKQLAAAKEQIKLPPQPVTAIVYTAAAHSA
NLWTPESAQGQMLEQLGFTLAKLPAGLNASQSQGKRHDIIQLGGENLAAGLNGESLFLFAGDQKDA
DAIYANPLLAHLPAVQNKQVYALGTETFRLDYYSAMQVLDRLKALF
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000
>G3XD23_3oa2_0_315
MKNFALIGAAGYIAPRHMRAIKDTGNCLVSAYDINDSVGIIDSISPQSEFFTEFEFFLDHASNLKRDSA
TALDYVSICSPNYLHYPHIAAGLRLGCDVICEKPLVPTPEMLDQLAVIERETDKRLYNILQLRHHQAII
ALKDKVAREKSPHKYEVDLTYITSRGNWYLKSWKGDPRKSFGVATNIGVHFYDMLHFIFGKLQRNV
VHFTSEYKAAGYLEYEQARVRWFLSVDANDLPESVKGKKPTYRSITVNGEEMEFSEGFTDLHTTSYE
EILAGRGYGIDDARHCVETVNTIRSAVIVPASDNEGHPFVAALAR
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111110000000000000000000000000
00000000000000000000000000001111
>P07773_1dlt_0_310
MEVKIFNTQDVQDFLRVASGLEQEGGNPRVKQIIHRVLSDLYKAIEDLNITSDEYWAGVAYLNQLGAN
QEAGLLSPGLGFDHYLDMRMDAEDAALGIENATPRTIEGPLYVAGAPESVGYARMDDGSDPNGHTLI
LHGTIFDADGKPLPNAKVEIWHANTKGFYSHFDPTGEQQAFNMRRSIITDENGQYRVRTILPAGYGC
PPEGPTQQLLNQLGRHGNRPAHIHYFVSADGHRKLTTQINVAGDPYTYDDFAYATREGLVVDAVEHT
DPEAIKANDVEGPFAEMVFDLKLTRLVDGVDNQVVDRPRLAV
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>B3PD60_3qee_27_333
QAENPIFTDVFTADPAALVHKGRVYLYAGRDEAPDNTTFFVMNEWLVYSSDDMANWEAHGPGLRA
KDFTWAKGDAWASQVIERNGKFYWYVTVRHDDTKPGFAIGVAVGDSPIGPFKDALGKALITNDMTT
DTPIDWDDIDPSVFIDDDGQAYLFWGNTRPRYAKLKKNMVELDGPIRAIEGLPEFTEAIWVHKYQD
NYYLSYAMGFPEKIGYAMGKSIKGPWVYKGILNEVAGNTPTNHQAIIEFNNKHYFIYHTGAGRPDGG
QYRRSVSIDELFYNPDGTIKRIVMTTEGVAPNKSPERVKKAAK
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111
>Q2CIP5_4eum_0_304
MHILSIGECMAELAPADLPGTYRLGFAGDTFNTAWYLARLRPESRISYFSAIGDDALSQQMRAAMSA
AGIDGGGLRVIPGRTVGLYLITLEQGERSFAYWRGQSAARELAGDADALAAAMARADVVYFSGITLAI
LDQCGRATLLRALAQARATGRTIAFDPNLRPRLWAGTGEMTETIMQGAAVSDIALPSFEDEAAWFG
DAGPDATADRYARAGVRSVVVKNGPHAVHFLQDGRRGRVPVPPVAQVVDTTAAGDSFNAGLLDSVL
AGQPLETAIAAAAALAGQVVQGKGALVEVPSLRPHADA
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000111111111
>P0CE80_3rlh_0_305
MLPYIVLVLGCWSVLSQAAQTDDEERAGNRRPIWIMGHMVNAIGQIDEFVNLGANSIETDVSFDDN
ANPEYTYHGIPCDCGRNCKKYENFNDFLKGLRSATTPGNSKYQEKLVLVVFDLKTGSLYDNQANDAG
KKLAKNLLQHYWNNGNNGGRAYIVLSIPDLNHYPLIKGFKDQLTKDGHPELMDKVGHDFSGNDDIG
DVGKAYKKAGITGHIWQSDGITNCLPRGLSRVNAAVANRDSANGFINKVYYWTVDKRSTTRDALDA
GVDGIMTNYPDVITDVLNEAAYKKKFRVATYDENPWVTFKK
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>B5DCA0_4awy_0_302
MKRRFTLLGSVVALALSSTALASDAPASRGCADDAGWNDPAMPLKVYGNTWYVGTCGISALLVTSD
AGHILVDAATPQAGPQILANIRALGFRPEDVRAIVFSHEHFDHAGSLAELQKATGAPVYARAPAIDTL
KRGLPDRTDPQFEVAEPVAPVANIVTLADDGVVSVGPLALTAVASPGHTPGGTSWTWRSCEGDDCR
QMVYADSLTAISDDVFRYSDDAAHPGYLAAFRNTLARVAALDCDILVTPHPSASGLWNRIGPRAAAP
LMDTTACRRYAQGARQRLEKRLAEEAATSPSSGARP
11111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111
>P71913_3go6_1_303
ANASETNVGPMAPRVCVVGSVNMDLTFVVDALPRPGETVLAASLTRTPGGKGANQAVAAARAGAQV
QFSGAFGDDPAAAQLRAHLRANAVGLDRTVTVPGPSGTAIIVVDASAENTVLVAPGANAHLTPVPSA
VANCDVLLTQLEIPVATALAAARAAQSADAVVMVNASPAGQDRSSLQDLAAIADVVIANEHEANDW
PSPPTHFVITLGVRGARYVGADGVFEVPAPTVTPVDTAGAGDVFAGVLAANWPRNPGSPAERLRAL
RRACAAGALATLVSGVGDCAPAAAAIDAALRANRHNGS
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000011111
>Q9KGN3_2ii1_0_299
MIRLSNENTIFFMDKENVPIASCQSGDTVIFETKDCFSDQITNEEQALTSIDFNRVNPATGPLYVEGAR
RGDMLEIEILDIKVGKQGVMTAAPGLGALGESLNSPTTKLFPIEGDDVVYSTGLRLPLQPMIGVIGTAP
PGEPINNGTPGPHGGNLDTKDIKPGTTVYLPVEVDGALLALGDLHAAMGDGEILICGVEIAGTVTLK
VNVKKERMFPLPALKTDTHFMTIASAETLDAAAVQATKNMATFLANRTALSIEEAGMLLSGAGDLY
VSQIVNPLKTARFSLALHYFEKLGVDLCN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000111
>O75688_2p8e_1_296
GAFLDKPKTEKHNAHGAGNGLRYGLSSMQGWRVEMEDAHTAVVGIPHGLEDWSFFAVYDGHAGSR
VANYCSTHLLEHITTNEDFRAAGKSGSALELSVENVKNGIRTGFLKIDEYMRNFSDLRNGMDRSGST
AVGVMISPKHIYFINCGDSRAVLYRNGQVCFSTQDHKPCNPREKERIQNAGGSVMIQRVNGSLAVSRA
LGDYDYKCVDGKGPTEQLVSPEPEVYEILRAEEDEFIILACDGIWDVMSNEELCEYVKSRLEVSDDLE
NVCNWVVDTCLHKGSRDNMSIVLVCFSN
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000011111111111000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000011
>Q8U4G1_1mjf_0_280
MERAFIEWYPRGYGVAFKIKKKIYEKLSKYQKIEVYETEGFGRLLALDGTVQLVTLGERSYHEPLVHP
AMLAHPKPKRVLVIGGGDGGTVREVLQHDVDEVIMVEIDEDVIMVSKDLIKIDNGLLEAMLNGKHE
KAKLTIGDGFEFIKNNRGFDVIIADSTDPVGPAKVLFSEEFYRYVYDALNNPGIYVTQAGSVYLFTDEL
ISAYKEMKKVFDRVYYYSFPVIGYASPWAFLVGVKGDIDFTKIDRERAKKLQLEYYDPLMHETLFQM
PKYIRETLQRL
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000011111000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000011
>P31007_3tvt_617_969
TQKRSLYVRALFDYDPNRDDGLPSRGLPFKHGDILHVTNASDDEWWQARRVLGDNEDEQIGIVPSK
RRWERKMRARDRSVKSEENVLSYEAVQRLSINYTRPVIILGPLKDRINDDLISEYPDKFGSCVPHTTR
PKREYEVDGRDYHFVSSREQMERDIQNHLFIEAGQYNDNLYGTSVASVREVAEKGKHCILDVSGNAI
KRLQVAQLYPVAVFIKPKSVDSVMEMNRRMTEEQAKKTYERAIKMEQEFGEYFTGVVQGDTIEEIYS
KVKSMIWSQSGPTIWVPSKESL
1111000000000001111111110000000000000000000000011111111000000000000
0000111111111100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
001111
>Q9C8L4_2gcu_50_293
KLLFRQLFENESSTFTYLLADVSHPDKPALLIDPVDKTVDRDLKLIDELGLKLIYAMNTHVHADHVT
GTGLLKTKLPGVKSVISKASGSKADLFLEPGDKVSIGDIYLEVRATPGHTAGCVTYVTGEGADQPQPR
MAFTGDAVLIRGCGRTDFQEGSSDQLYESVHSQIFTLPKDTLIYPAHDYKGFEVSTVGEEMQHNPRLT
KDKETFKTIMSNLNLSYPKMIDVAVPANMVCGLQDVPSQAN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001
>Q8TZN6_1nnh_0_293
MNAVEIISREISPTLDIQTKILEYMTDFFVKEGFKWLLPVIISPITDPLWPDPAGEGMEPAEVEIYGVK

MRLTHSMILHKQLAIAMGLKKIFVLSPNIRLESRQKDDGRHAYEFTQLDFEVERAKMEDIMRLIERL
VYGLFRKAEEWTGREFPKTKRFEVFEYSEVLEEFGSDEKASQEMEEPFWIINIPREFYDREVDGFW
RNYDLILPYGYGEVASGGEREWEYEKIVAKIRKAGLNEDSFRPYLEIAKAGKLKPSAGAGIGVERLVRF
IVGAKHIAEVQPFPRIPGIPAVI
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000
>Q62DH4_3lou_0_290
MSVPQRPHQFVLTLSCPSAAGQVAAVVGLLDRHRCYVDELTVFDDDLSARFFVRCVFHATDDADAL
RVDALRREFEPIAERFRMQWAIHDVAARPKVLIMVSKLEHCLADLLFRWKMGELKMDIVGIVSNHP
DFAPLAAQHGLPFRHFPITADTKAQQEAQWLDVFETSGAELVILARYMQVLSPEASARLANRAINIH
HSFLPGFKGAKPYHQAHARGVKLIGATAHFVTDDLDEGPIIEQVVERVDHSYRPEQLLAVGRDVECIT
LARAVKAFIERRVFLNGDRTVVFQ
1111110000000000000000000000000000000000000000000000000001111000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000
>Q833Y3_2r3b_0_290
MRYLSKDILEEVITQRPSDSYKSNFGRVVLIGGNRQYGGAIIMSTEACINSGAGLTTVITDVKNHGPLH
ARCPEAMVVGFEETVLLTNVVEQADVILIGPGLGLDATAQQILKMVLAQHQKQQWLIIDGSAITLFSQ
GNFSLTYPEKVVFTPHQMEWQRLSHLPIEQQTLANNQRQQAKLGSTIVLKSHRTTIFHAGEPFQNT
GGNPGMATGGTGDTLAGIIAGFLAQFKPTIETIAGAVYLHSLIGDDLAKTDYVVLPTKISQALPTYMK
KYAQPHTAPDSELLEQKRSR
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000011111111
1111111
>Q2K0Z9_3miz_49_338
AARLIRSSRSNTFGIITDYVSTTPYSVDIVRGIQDWANANGKTILIANTGGSSEREVEIWKMFQSHRID
GVLYVTMYRRIVDPESGDVSIPTVMINCRPQTRELLPSIEPDDYQGARDLTRYLLERGHRRIGYIRLNP
ILLGAELRLDAFRRTTSEFGLTENDLSISLGMDGPVGAENNYVFAAATEMLKQDDRPTAIMSGNDEM
AIQIYIAAMALGLRIPQDVSIVGFDDFRTVTMALKPELTTAALPYYDLGREGAKWLNDLIAGEKIYPG
SRVVSCKLVERSSAAFG
1111111100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000
>Q8A183_3mpr_20_309
SYQPTSLTVASYNLRNANGSDSARGDGWGQRYPVIAQMVQYHDFDIFGTQECFLHQLKDMKEALPG

YDYIGVGRDDGKDKGEHSAIFYRTDKFDIVEKGDFWLSETPDVPSKGWDAVLPRICSWGHFKCKDT
GFEFLFFNLHMDHIGKKARVESAFLVQEKMKELGRGKNLPAILTGDFNVDQTHQSYDAFVSKGVLCD
SYEKCDYRYALNGTFNNFDPNSFTESRIDHIFVSPSFHVKRYGVLTDTYRSVRENSKKEDVRDCPEEI
TIKAYEARTPSDHFPVKVELVFD
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111111110000000000000000
000000
>Q9VY78_2yv7_0_259
MSEVESQQSQETNGSSKFDVPEIELIIKASTIDGRRKGACLFCQEYFMDLYLLAELKTISLKVTTVDM
QKPPPDFRTNFEATHPPILIDNGLAILENEKIERHIMKNIPGGYNLFVQDKEVATLIENLYVKLKLMLV
KKDEAKNNALLSHLRKINDHLSARNTRFLTGDTMCCFDCELMPRLQHIRVAGKYFVDFEIPTHLTAL
WRYMYHMYQLDAFTQSCPADQDIINHYKLQQSLKMKKHEELETPTFTTYIPIDISE
111111111111000000000000000000000000000000000000000000000000000000000000
011111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000011111000000000000000011
>P96116_1toa_22_307
FGSKDAAADGKPLVVTTIGMIADAVKNIAQGDVHLKGLMGPGVDPHLYTATAGDVEWLGNADLILY
NGLHLETKMGEVFSKLRGSRLVVAVSETIPVSQRLSLEEAEFDPHVWFDVKLWSYSVKAVYESLCKL
LPGKTREFTQRYQAYQQQLDKLDAYVRRKAQSLPAERRVLVTAHDAFGYFSRAYGFEVKGLQGVSTA
SEASAHDMQELAAFIAQRKLPAIFIESSIPHKNVEALRDAVQARGHVVQIGGELFSDAMGDAGTSEGT
YVGMVTHNIDTIVAALAR
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00
>Q9H9B1_2rfi_981_1265
NSQVWSALQMSKALQDSAPDRPSPVERIVSRDIARGYERIPIPCVNAVDSEPCPSNYKYVSQNCVTSP
MNIDRNITHLQYCVCIDDCSSSNCMCGQLSMRCWYDKDGRLLPEFNMAEPPLIFECNHACSCWRNC
RNRVVQNGLRARLQLYRTRDMGWGVRSLQDIPPGTFVCEYVGELISDSEADVREEDSYLFDLDNKD
GEVYCIDARFYGNVSRFINHHCEPNLVPVRVFMAHQDLRFPRIAFFSTRLIEAGEQLGFDYGERFWDI
KGKLFSCRCGSPKCRHS
111111111111111111111111000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0
>P72222_1t3q_0_287
MKFPAFSYRAPASLQEVIQVLADDPDARIIAGGQSLLPLLAFRLVYPSCLVDLRNVSELFEISQSAGILS
VGAMVTHFRNKTDPTVAKCVPILPKVLAHVAHQAVRNRGTLGGSLAHADAGAEMPFLMATLGATM
YIASSAGVRSVSATDFMKGHYFTDLEAGEVLVRVEIPIPALHWEFDEYARRKGDYALVMAAAGLSMQ

GGRCVAARIALGAVEERAHQAIRANDFLVGKVIDESTAATAAELATEGLEPRSDIHGSRDLRLSLAKAI
TQRVILKAAQGAMYAGA
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0111
>Q4WEQ6_2y8v_0_287
MPPVPGRPEHRRVICYHQTLCPNRGDYVSVLPLVKNNTGVTHIIIAAFHLNEDPGHITLNDDPPDHE
MYNPLWAEVPVLKRSGVKVMGMLGGAAQGSYRCLDGDQEKFERYYQPLLAMVRRHQLDGLDLDV
EEEMSLPGIIRLIDRLKLDLGDDFIITLAPVAAALLGIGNLSGFDYRQLEQQRGSKISWYNAQFYNGW
GLAEDPRMYAAIVAQGWSPQRVVYGLLTNPGNGSQGYVPRERIGPVLAVLVEQFPNFGGVMGWEYF
NSIPGEQQSPWQWAAEMSLSMHM
11111110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
0001
>A0QFP4_3rd7_0_283
MISTLEDVLSLLDLQQIDDAAFVGTQPDTPNHHIIGSQVAAQALMAAGRTTPGRLAHSMHMYFLRR
GDARQPIQYDVTPLRDGGTISSRRVTASQSGVVLFEALASFTIIADDVDWQQRMPDVAGPSAVHGLE
DLLAPYAEEFGDWWPQQRPFTMRYLDAPPRVALDLSDPPPPRLRIWLRANGEVTDDPLVNSCVVA
YLSALTLLECVMTTMRTTPVGPRLSALVDHTIWFHRAADFTDWLLFDQFSPSIVGRRGLATGTLYNR
SGELVCIATQEGYFAEQRQ
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
01111110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000011
>F2Z6J5_3ayx_40_322
NKIAHAMETKPRTPVIWLHGLECTCCSESFIRSAHPLAKDVVLSMISLDYDDTLMAASGHAAEAILD
EIKEKYKGNYILAVEGNPPLNQDGMSCIIGGRPFSEQLKRMADDAKAIISWGSCASWGCVQAAKPNP
TQATPVHKFLGGGYDKPIIKVPGCPPIAEVMTGVITYMLTFDRIPELDRQGRPKMFYSQRIHDKCYRR
PHFDAGQFVEEWDDEGARKGYCLYKVGCKGPTTYNACSTVRWNGGTSFPIQSGHGCIGCSEDGFWD
KGSFYSRDTEMNAFG
11111111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>P16152_3bhm_1_276
SSGIHVALVTGGNKGIGLAIVRDLCRLFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSI
RALRDFLRKEYGGLDVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVN
VSSIMSVRALKSCSPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSSAYGVTKIGVTVLS
RIHARKLSEQRKGDKILLNACCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSE
KRVEQW

11000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>P00387_1umk_26_300
FQRSTPAITLESPDIKYPLRLIDREIISHDTRRFRFALPSPQHILGLPVGQHIYLSARIDGNLVVRPYTPI
SSDDDKGFVDLVIKVYFKDTHPKFPAGGKMSQYLESMQIGDTIEFRGPSGLLVYQGKGKFAIRPDKKS
NPIIRTVKSVGMIAGGTGITPMLQVIRAIMKDPDDHTVCHLLFANQTEKDILLRPELEELRNKHSARF
KLWYTLDRAPEAWDYGQGFVNEEMIRDHLPPPEEEPLVLMCGPPPMIQYACLPNLDHVGHPTERC
FVF
11110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>Q9YAQ8_1wta_0_274
MFEITRPPGVRAHVGVIGGSGLYDPGIVENPVEVKVSTPYGNPSDFIVVGDVAGVKVAFLPRHGRGHR
IPPHAINYRANIWALKALGVKWVISVSAVGSLREDYRPGDFVVPDQFIDMTKNRRHYTFYDGPVTV
HVSMADPFCEDLRQRLIDSGRRLGYTVHERGTYVCIEGPRFSTRAESRVWKDVFKADIIGMTLVPEI
NLACEAQLCYATLAMVTDYDVWADRPVTAEEVERVMISNVERARRMLYDVIPKLAGEPELERCSCC
RALDTAAI
11000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>Q4FZB7_3s8p_62_334
QSRYVPSSGMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPSRSSRHFSKSDSFSHNNPVRFRP
IKGRQEELKEVIERFKKDEHLEKAFKCLTSGEWARHYFLNKNKMQEKLFKEHVFIYLRMFATDSGFE
ILPCNRYSSEQNGAKIVATKEWKRNDKIELLVGCIAELSEIEENMLLRHGENDFSVMYSTRKNCAQL
WLGPAAFINHDCRPNCKFVSTGRDTACVKALRDIEPGEEISCYYGDGFFGENNEFCECYTCERRGTG
AFKSR
11111111000000000000000000000000000011111111111111111111111000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001
>P0A632_3qja_0_271
MSPATVLDSILEGVRADVAAREASVSLSEIKAAAAAAPPPLDVMAALREPGIGVIAEVKRASPSAGAL
ATIADPAKLAQAYQDGGARIVSVVTEQRRFQGSLDDLDAVRASVSIPVLRKDFVVQPYQIHEARAHGA
DMLLLIVAALEQSVLVSMLDRTESLGMTALVEVHTEQEADRALKAGAKVIGVNARDLMTLDVDRDC
FARIAPGLPSSVIRIAESGVRGTADLLAYAGAGADAVLVGEGLVTSGDPRAAVADLVTAGTHPSCPKPA
R
11100000000000000000000000000000000000000000000000000111111111111
10000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011

>Q5SJC0_1wxj_0_270
MTTLEAFAKARSEGRAALIPYLTAGFPSREGFLQAVEEVLPYADLLEIGLPYSDPLGDGPVIQRASELA
LRKGMSVQGALELVREVRALTEKPLFLMTYLNPVLAWGPERFFGLFKQAGATGVILPDLPPDEDPGL
VRLAQEIGLETVFLLAPTSTDARIATVVRHATGFVYAVSVTGVTGMRERLPEEVKDLVRRIKARTALP
VAVGFGVSGKATAAQAAVADGVVVGSALVRALEEGRSLAPLLQEIRQGLQRLEANPGLKESSKKPLP
000000000000000000000000000000000000000000000000000011111000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111111111111000000000000000000000000000
000000000000000000000000000000000000000000011111111111111
>Q10QA5_4ih9_50_317
PSGAKLLQILNVRVVGSGERVVVLSHGFGTDQSAWSRVLPYLTRDHRVVLYDLVCAGSVNPDHFDFR
RYDNLDAYVDDLLAILDALRIPRCAFVGHSVSAMIGILASIRRPDLFAKLVLIGASPRFLNDSDYHGGF
ELEEIQQVFDAMGANYSAWATGYAPLAVGADVPAAVQEFSRTLFNMRPDISLHVCQTVFKTDLRGVL
GMVRAPCVVVQTTRDVSVPASVAAYLKAHLGGRTTVEFLQTEGHLPHLSAPSLLAQVLRRALARY
111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>Q4Q3K2_3riv_34_302
EEPPFDIRALRADIEDMISEKLELGPSLIRLAWHEAASYDCFKKDGSPNSASMRFKPECLYAGNKGLD
IPRKALETLKKKYPQISYADLWVLAAYVAIEYMGGPTIPFCWGRVDAKDGSVCGPDGRLPDGSKTQS
HVREVFRRLGFNDQETVALIGAHTCGECHIEFSGYHGPWTHDKNGFDNSFFTQLLDEDWVLNPKV
EQMQLMDRATTKLMMLPSDVCLLLDPSYRKYVELYAKDNDRFNKDFANAFKKLTELGTRNLHKAP
ASES
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000111
>Q72EC8_2xvx_28_296
GHGAPKAQKTGILLVAFGTSVEEARPALDKMGDRVRAAHPDIPVRWAYTAKMIRAKLRAEGIAAPSP
AEALAGMAEEGFTHVAVQSLHTIPGEEFHGLLETAHAFQGLPKGLTRVSVGLPLIGTTADAEAVAEAL
VASLPADRKPGEPVVFMGHGTPHPADICYPGLQYYLWRLDPDLLVGTVEGSPSFDNVMAELDVRKA
KRVWLMPLMAVAGDHARNDMAGDEDDSWTSQLARRGIEAKPVLHGTAESDAVAAIWLRHLDDAL
ARLN
111111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>Q8AAQ3_3b8b_0_267
MAAIDAALKAGEKILSIYEDPKSDFEIERKADNSPLTIADRKAHEAIVAILNETPFPVLSEEGKHMDYA
VRRGWDTLWIVDPLDGTKEFIKRNGEFTVNIALVQNAVPVMGVIYVPVKKELYFAVEGTGAYKCSGIV
GLEDEGVTLQQMIEKSERMPLADARDHFIAVASRSHLTPETETYIADLKKKHGNVELISSGSSIKICLV
AEGKADVYPRFAPTMEWDTAAGHAIARAAGMEVYQAGKEEPLRYNKEDLLNPWFIVEAKRER
000000000000000000000000000011100000000000000000000000000000000001000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000001
>Q8NQY2_4dbf_0_267
MRFGRIATPDGMCFCSIEGEGDDVANLTAREIEGTPFTEPKFTGREWPLKDVRLLAPMLPSKVVAIG
RNYADHVAEVFKKSAESLPPTLFLKPPTAVTGPESPIRIPSFATKVEFEGELAVVIGKPCKNVKADDW
KSVVLGFTIINDVSSRDLQFADGQWARAKGIDTFGPIGPWIETDINSIDLDNLPIKARLTHDGETQLK
QDSNSNQMIMKMGEIIEFITASMTLLPGDVIATGSPAGTEAMVDGDYIEIEIPGIGKLGNPVVDA
00000000000000000000000000000000000000000000000000000000000000000000000000000000
01111111111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>P76469_2vws_0_266
MNALLSNPFKERLRKGEVQIGLWLSSTTAYMAEIAATSGYDWLLIDGEHAPNTIQDLYHQLQAVAPY
ASQPVIRPVEGSKPLIKQVLDIGAQTLLIPMVDTAEQARQVVSATRYPPYGERGVGASVARAARWGRI
ENYMAQVNDSLCLLVQVESKTALDNLDEILDVEGIDGVFIGPADLSASLGYPDNAGHPEVQRIIETSIR
RIRAAGKAAGFLAVAPDMAQQCLAWGANFVAVGVDTMLYSDALDQRLAMFKSGKNGPRIKGSY
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111111
>P10275_2ama_653_918
ETTQKLTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAK
ALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQC
VRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTS
CSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ
11111111111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111110000000000000000000
00000000000000000000000000000000000000000000000000000000
>O95050_2a14_0_262
MKGGFTGGDEYQKHFLPRDYLATYYSFDGSPSPEAEMLKFNLECLHKTFGPGGLQGDTLIDIGSGPTI
YQVLAACDSFQDITLSDFTDRNREELEKWLKKEPGAYDWTPAVKFACELEGNSGRWEEKEEKLRAA
VKRVLKCDVHLGNPLAPAVLPLADCVLTLLAMECACCSLDAYRAALCNLASLLKPGGHLVTTVTLRL
PSYMVGKREFSCVALEKEEVEQAVLDAGFDIEQLLHSPQSYSVTNAANNGVCFIVARKKPGP
11110000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>Q5E0H6_3kv1_62_325
FHPVYSVQLEQKLVEKFNLKRALISLDQPNTNEQRKQVAALVSSYLNNNLQEGMAVAVGQGQNVAAV
ADHAGIVTQRNARFVSAIGGTHRSGDIINADHICRRLAKKYGGSSETLYAPAYVNDPSLRSAFMEHATI
KETLSQARKAEFALVGIGDMDENSHMVKLGFFTPKEFVEARLNDGIVGDIGGFDFFKLDGTDADTL
MRGRVIGLEMEDLRQIPNVVAMASESRKALSIMGALRTGVIDVLATSVSCAMALLNLAENEE

11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000011
>F0QHB3_4e6t_1_261
SNHDLIHSTAIIDPSAVIASDVQIGPYCIIGPQVTIGAGTKLHSHVVVGGFTRIGQNNEIFQFASVGEVCQ
DLKYKGEETWLEIGNNNLIREHCSLHRGTVQDNALTKIGSHNLLMVNTHIAHDCIVGDHNIFANNV
GVAGHVHIGDHVIVGGNSGIHQFCKIDSYSMIGGASLILKDVPAYVMASGNPAHAFGINIEGMRRKGW
SKNTIQGLREAYKLIFKSGLTSVQAIDQIKSEILPSVPEAQLLIDSLEQSERGIVR
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>Q2YLA2_3ngf_0_260
MPRFAANLSTMFNEVPFLERFRLAAEAGFGGVEFLFPYDFDADVIARELKQHNLTQVLFNMPPGDW
AAGERGMAAISGREQEFRDNVDIALHYALALDCRTLHAMSGITEGLDRKACEETFIENFRYAADKLA
PHGITVLVEPLNTRNMPGYFIVHQLEAVGLVKRVNRPNVAVQLDLYHAQIMDGDLTRLIEKMNGAFS
HVQIASVPDRHEPDEGELNYPYLFSVLESVGYRGWVGCEYNPRGKTESGLAWFAPYRDQSA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111
>Q15233_3sde_52_311
EGLTIDLKNFRKPGEKTFTQRSRLFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRT
LAEIAKVELDNMPLRGKQLRVRFACHSASLTVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPS
GKGIVEFSGKPAARKALDRCSEGSFLLTTFPRPVTVEPMDQLDDEEGLPEKLVIKNQQFHKEREQPP
RFAQPGSFEYEYAMRWKALIEMEKQQQDQVDRNIKEAREKLEMEMEAARHEHQVMLM
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000011111111
>D0VWX8_2pvu_0_251
MGGGRSTETSSSSGGDGGATKKKVVVGTDAAFAPFEYMQKGKIVGFDVDLLDAVMKAAGLDYELKN
IGWDPLFASLQSKEVDMGISGITITDERKQSYDFSDPYFEATQVILVKQGSPVKNALDLKGKTIGVQNA
TTGQEAAEKLFGKGPHIKKFETTVVAIMELLNGGVDAVITDNAVANEYVKNNPNKKLQVIEDPKNFA
SEYYGMIFPKNSELKAKVDEALKNVINSGKYTEIYKKWFGKEPKLDRLKQ
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000
>Q92R45_2q62_0_240
MSDDDSSHDLPAANLQQLRLPDSASLRPAFSTHRPRILILYGSLRTVSYSRLLAEEARRLLEFFGAEVK
VFDPSGLPLPDAAPVSHPKVQELRELSIWSEGQVWVSPERHGAMTGIMKAQIDWIPLSTGSIRPTQG
KTLAVMQVSGGSQSFNAVNQMRILGRWMRMITIPNQSSVAKAFQEFDANGRMKPSSYYDRVVDVM

EELVKFTLLTRDCSAYLTDRYSERKESAAELEHRVTLKSV
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000111111111111
>P35398_1n83_303_555
AELEHLAQNISKSHLETCQYLREELQQITWQTFLQEEIENYQNKQREVMWQLCAIKITEAIQYVVEF
AKRIDGFMELCQNDQIVLLKAGSLEVVFIRMCRAFDSQNNTVYFDGKYASPDVFKSLGCEDFISFVFE
FGKSLCSMHLTEDEIALFSAFVLMSADRSWLQEKVKIEKLQQKIQLALQHVLQKNHREDGILTKLICK
VSTLRALCGRHTEKLMAFKAIYPDIVRLHFPPLYKELFTSEFEPAMQIDG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000111111111111
>P36438_1hcz_35_286
YPIFAQQNYENPREATGRIVCANCHLASKPVDIEVPQAVLPDTVFEAVVKIPYDMQLKQVLANGKKG
ALNVGAVLILPEGFELAPPDRISPEMKEKIGNLSFQNYRPNKKNILVIGPVPGQKYSEITFPILAPDPAT
NKDVHFLKYPIYVGGNRGRGQIYPDGSKSNNTVYNATAGGIISKILRKEKGGYEITIVDASNERQVIDII
PRGLELLVSEGESIKLDQPLTSNPNVGGFGQGDAEIVLQDPLRVQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011
>P28861_1fdr_0_247
MADWVTGKVTKVQNWTDALFSLTVHAPVLPFTAGQFTKLGLEIDGERVQRAYSYVNSPDNPDLEF
YLVTVPDGKLSPRLAALKPGDEVQVVSEAAGFFVLDEVPHCETLWMLATGTAIGPYLSILQLGKDLD
RFKNLVLVHAARYAADLSYLPLMQELEKRYEGKLRIQTVVSRETAAGSLTGRIPALIESGELESTIGLP
MNKETSHVMLCGNPQMVRDTQQLLKETRQMTKHLRRRPGHMTAEHYW
10000000000000000000000000000000000000000011100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>Q6DWK3_2iw0_0_247
MHFSTLFGAAATAALAGSTNASPLARRQVPVGTPILQCTQPGLVALTYDDGPFTFTPQLLDILKQNDV
RATFFVNGNNWANIEAGSNPDTIRRMRADGHLVGSHTYAHPDLNTLSSADRISQMRHVEEATRRID
GFAPKYMRAPYLSCDAGCQGDLGGLGYHIIDTNLDTKDYENNKPETTHLSAEKFNNELSADVGANS
YIVLSHDVHEQTVVSLTQKLIDTLKSKGYRAVTVGECLGDAPENWYKA
11111111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>O15247_2r4v_0_246
MSGLRPGTQVDPEIELFVKAGSDGESIGNCPFCQRLFMILWLKGVKFNVTTVDMTRKPEELKDLAP
GTNPPFLVYNKELKTDFIKIEEFLEQTLAPPRYPHLSPKYKESFDVGCNLFAKFSAYIKNTQKEANKN

FEKSLLKEFKRLDDYLNTPLLDEIDPDSAEEPPVSRRLFLDGDQLTLADCSLLPKLNIIKVAAKKYRD
FDIPAEFSGVWRYLHNAYAREEFTHTCPEDKEIENTYANVAKQKS
11111111100000000000000000000000000000000000000000000011111111110000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>P75960_1s5p_2_236
KPRVLVLTGAGISAESGIRTFRAADGLWEEHRVEDVATPEGFDRDPELVQAFYNARRRQLQQPEIQP
NAAHLALAKLQDALGDRFLLVTQNIDNLHERAGNTNVIHMHGELLKVRCSQSGQVLDWTGDVTPE
DKCHCCQFPAPLRPHVVWFGEMPLGMDEIYMALSMADIFIAIGTSGHVYPAAGFVHEAKLHGAHTV
ELNLEPSQVGNEFAEKYYGPASQVVPEFVEKLLKGLK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111111
00000000000000000000000000000000000000000000000000000000000001110000
000000000000000000000
>P50597_1r6l_0_238
MNRPSGRAADQLRPIRITRHYTKHAEGSVLVEFGDTKVICTVSAESGVPRFLKGQGQGWLTAEYGML
PRSTGERNQREASRGKQGGRTLEIQRLIGRSLRAALDLSKLGENTLYIDCDVIQADGGTRTASITGATV
ALIDALAVLKKRGALKGNPLKQMVAAVSVGIYQGVPVLDLDYLEDSAAETDLNVVMTDAGGFIEVQG
TAEGAPFRPAELNAMLELAQQGMQELFELQRAALAE
00000000000000000000000000000000000000000000000000011100000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>F8DUF3_3nol_39_282
SHAATPSIPIYDYQIVHSYPHDTKAFTEGFFYRNGYFYESTGLNGRSSIRKVDIESGKTLQQIELGKRYF
GEGISDWKDKIVGLTWKNGLGFVWNIRNLRQVRSFNYDGEGWGLTHNDQYLIMSDGTPVLRFLDP
ESLTPVRTITVTAHGEELPELNELEWVDGEIFANVWQTNKIVRIDPETGKVTGIIDLNGILAEAGPLPS
PIDVLNGIAWDKEHHRLFVTGKLWPKVFEITLTQRVGGHK
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111
>Q8ZJZ9_3s81_0_243
MKHTIGILGGMGPAATADMLEKFVELRHASCDQQHIPLIVSSIPDIPDRTACLLSGGPSPYRYLERYLH
MLEDAGAECIVIPCNTAHYWFDDLQNVAKARMISILDATLGDIPPSARHVGLLATNATLATGLYQKK
ALARGLTLIQPEDAGQALVMQAIYTLKRGDKTAAQALLLPQIDSLIARGAQAIIMGCTEIPLIVAGHER
AIACPMIDSTASLVRAAIRWYESWPDTRASLTGEQRLTA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111111
>Q8Y4T3_4gvo_28_268
AANQKVQTITVGTGTQFPNVCFLDENGKLTGYDVELVKEIDKRLPGYKFKFKTMDFSNLLVSLGAGK

VDIVAHQMEKSKEREKKFLFNDVAYNNFPLQLTVLDSNNSINSTKDLAGKRVITSATSNGALVLKKIN
EEQGNNFEIAYEGQGSNDTANQLKTGRADATISTPFAVDFQNKTSAIKEKVVGDVLSNAKVYFMLGK
DETKLSKKVDEALQSIIDDGTLKKLSEKWLGADYSKEQY
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>Q9H3S4_3s4y_14_242
GNLKYCLVILNQPLDNYFRHLWNKALLRACADGGANRLYDITEGERESFLPEFINGDFDSIRPEVREY
YATKGCELISTPDQDHTDFTKCLKMLQKKIEEKDLKVDVIVTLGGLAGRFDQIMASVNTLFQATHITP
FPIIIIQEESLIYLLQPGKHRLHVDTGMEGDWCGLIPVGQPCMQVTTTGLKWNLTNDVLAFGTLVSTS
NTYDGSGVVTVETDHPLLWTMAIKS
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001110000000000000000000000000000000000000000000000000
0000000000000001
>Q81MQ2_3r8y_0_239
MKMMDANEIISFIQKSEKKTPVKVYIKGDLKEVTFPETVQAFVNKKSGVLFGEWSEIKTILDENSKYI
VDYVVENDRRNSAIPMLDLKGIKARIEPGAIIRDHVEIGDNAVIMMNATINIGAVIGEGSMIDMNAVL
GGRATVGKNCHVGAGAVLAGVIEPPSAKPVIVEDDVVIGANVVVLEGVTVGKGAVVAAGAVVTEDVP
PYTVVAGTPARVIKEIDEKTKAKTEIKQELRQLNPEK
1111111111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000011111111111111111111111
>Q64UP6_2p1g_20_257
QESSLVLSNGLGFVDTPYKAGTLEVDDTEDLIINCDEVDCTTFVEYALAMALCPQQGDEMQEGDFAR
NLQRIRYRDGKIDGYTSRLHYISDWINNAVRQGLLEDVTAAYSPFKQKLSLSYMSTHPELYKSLKNSP
ENVAQMAKYEKALSGKEVHYLPKDKLEPDGLPWIKNGDIIALTTNTPGLDVSHMGIAIYIKGQLHLL
HASSKEGKVVVGKTALSQMLKDRKSLTGIRVLRMKK
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000011
>A1Z1Q3_4iqy_6_242
KKKVWREEKERLLKMTLEERRKEYLRDYIPLNSILSWKEEMKGKGQNDEENTQETSQVKKSLTEK
VSLYRGDITLLEVDAIVNAANASLLGGGGVDGCIHRAAGPCLLAECRNLNGCDTGHAKITCGYDLPAK
YVIHTVGPIARGHINGSHKEDLANCYKSSLKLVKENNIRSVAFPCISTGIYGFPNEPAAVIALNTIKEWL
AKNHHEVDRIIFCVFLEVDFKIYKKKMNEFFSVD
1110000000000000000000000000000000000000000011111100000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000011
>P81460_4i30_0_236

ADTIVAVELDTYPNTDIGDPSYPHIGIDIKSVRSKKTAKWNMQNGKVGTAHIIYNSVGKRLSAVVSYP
NGDSATVSYDVDLDNVLPEWVRVGLSASTGLYKETNTILSWSFTSKLKSNSTHETNALHFVFNQFSK
DQKDLILQGDATTGTDGNLELTRVSSNGSPQGNSVGRALFYAPVHIWESSAVVASFDATFTFLIKSSDS
HPADGIAFFISNIDSSIPSGSTGRLLGLFPDAN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001111100000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q5VWZ2_3u0v_0_236
MAAASGSVLQRCIVSPAGRHSASLIFLHGSGDSGQGLRMWIKQVLNQDLTFQHIKIIYPTAPPRSYTP
MKGGISNVWFDRFKITNDCPEHLESIDVMCQVLTDLIDEEVKSGIKKNRILIGGFSMGGCMAIHLAYR
NHQDVAGVFALSSFLNKASAVYQALQKSNGVLPELFQCHGTADELVLHSWAEETNSMLKSLGVTTKF
HSFPNVYHELSKTELDILKLWILTKLPGEMEKQK
111111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111
>Q6YI95_3c3y_0_236
MDFAVMKQVKNTGLLQSEELCQYILRTSVYPREAGFLKELREANESHPDSYMSTSPLAGQLMSFVLK
LVNAKKTIEVGVFTGYSLLLTALSIPDDGKITAIDFDREAYEIGLPFIRKAGVEHKINFIESDAMLALDN
LLQGQESEGSYDFGFVDADKPNYIKYHERLMKLVKVGGIVAYDNTLWGGTVAQPESEVPDFMKENR
EAVIELNKLLAADPRIEIVHLPLGDGITFCRRLY
111111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q9NRG1_2jbh_0_224
MAGSSEEAPDYGRGVVIMDDWPGYDLNLFTYPQHYYGDLEYVLIPHGIIVDRIERLAKDIMKDIGYS
DIMVLCVLKGGYKFCADLVEHLKNISRNSDRFVSMKVDFIRLKSYRNDQSMGEMQIIGGDDLSTLAG
KNVLIVEDVVGTGRTMKALLSNIEKYKPNMIKVASLLVKRTSRSDGFRPDYAGFEIPNLFVVGYALDY
NEYFRDLNHICVINEHGKEKYRV
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000010000000000000000000000000000000000000
000000000000
>Q9UHI6_2oxc_40_267
RTAQDLSSPRTRTGDVLLAEPADFESLLLSRPVLEGLRAAGFERPSPVQLKAIPLGRCGLDLIVQAKSG
TGKTCVFSTIALDSLVLENLSTQILILAPTREIAVQIHSVITAIGIKMEGLECHVFIGGTPLSQDKTRLKK
CHIAVGSPGRIKQLIELDYLNPGSIRLFILDEADKLLEEGSFQEQINWIYSSLPASKQMLAVSATYPEFL
ANALTKYMRDPTFVRLNS
111111111111111111110000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011

>Q13907_2dho_0_226
MPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLFNTENKLLL
QQRSDAKITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLEEVPPEEINYLTRIHY
KAQSDGIWGEHEIDYILLVRKNVTLNPDPNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIAATFL
FKWWDNLNHLNQFVDHEKIYRM
11111111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>Q5NHL5_3mjd_0_207
MFIEFALKNQVLKFGEFTLKSGRISPYFFNAGLFNTGAQLATLADYYAQLIIKSDVKYDILFGPAYKGIP
LVAAISTVLALKYNIDMPYAFDRKEAKDHGEGGVFVGADMTNKKVLLIDDVMTAGTAFYESYNKLKI
INAKIAGVVLSIDRQEKAKDSDISATKKISQDFNIPVLAVTNFESIFEYVKENLDETMIDKFKQYRQKY
GS
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>A9CIK7_2i3d_0_224
MPEVIFNGPAGRLEGRYQPSKEKSAPIAIILHPHPQFGGTMNNQIVYQLFYLFQKRGFTTLRFNFRSIG
RSQGEFDHGAGELSDAASALDWVQSLHPDSKSCWVAGYSFGAWIGMQLLMRRPEIEGFMSIAPQPN
TYDFSFLAPCPSSGLIINGDADKVAPEKDVNGLVEKLKTQKGILITHRTLPGANHFFNGKVDELMGEC
EDYLDRRLNGELVPEPAAKRIR
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000011111
>A6T8J6_3tfw_0_223
MGKRHMQQQWSAVDNYLIKALIPGDPVLDRVLENNHRAGLPAHDVAANQGQFLALLVRLTQAKRI
LEIGTLGGYSTIWMARELPADGQLLTLEADAHHAQVARENLQLAGVDQRVTLREGPALQSLESLGEC
PAFDLIFIDADKPNNPHYLRWALRYSRPGTLIIGDNVVRDGEVVNPQSADERVQGVRQFIEMMGAEP
RLTATALQTVGTKGWDGFTLAWVNA
11110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000
>Q8A5V9_3qu2_0_223
MRKKLKAVLFDMDGVLFNSMPYHSEAWHQVMKTHGLDLSREEAYMHEGRTGASTINIVFQRELGK
EATQEEIESIYHEKSILFNSYPEAERMPGAWELLQKVKSEGLTPMVVTGSGQLSLLERLEHNFPGMF
HKELMVTAFDVKYGKPNPEPYLMALKKGGLKADEAVVIENAPLGVEAGHKAGIFTIAVNTGPLDGQ
VLLDAGADLLFPSMQTLCDSWDTIML
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000

>Q51793_1ty9_0_221
MNGSIQGKPLLGKGMSESLTGTLDAPFPEYQTLPADPMSVLHNWLERARRVGIREPRALALATADSQ
GRPSTRIVVISEISDAGVVFSTHAGSQKGRELLHNPWASGVLYWRETSQQIILNGQAVRLPNAKADDA
WLKRPYATHPMSSVSRQSEELQDVQAMRNAARQLAELQGPLPRPEGYCVFELRLESLEFWGNGQE
RLHERLRYDRSDTGWNVRRLQP
1111111111111110000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000
>O75636_2j60_80_298
VNLLRCQEGPRNCRELLSQGATLSGWYHLCLPEGRALPVFCDMDTEGGGWLVFQRRQDGSVDFFRS
WSSYRAGFGNQESEFWLGNENLHQLTLQGNWELRVELEDFNGNRTFAHYATFRLLGEVDHYQLAL
GKFSEGTAGDSLSLHSGRPFTTYDADHDSSNSNCAVIVHGAWWYASCYRSNLNGRYAVSEAAAHKY
GIDWASGRGVGHPYRRVRMMLR
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>P83699_1q0u_1_218
AETQFTRFPFQPFIIEAIKTLRFYKPTEIQERIIPGALRGESVGQSQTGTGKTHAYLLPIEKIKPERAEV
QAVITAPTRELATQIYHETLKITKFCPKDRIVARCLIGGTDKQKALEKLNVQPHIVIGTPGRINDFIREQ
ALDVHTAHILVVDEADLLDGFITDVDQIAARPKDLQLVFSATIPEKLKPFLKKYENPTFVHVLEHHH
HHH
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000001111111
>P0A744_1ff3_1_211
SLFDKKHLVSPADALPGRNTPMPVATLHAVNGHSMTNVPDGMEIAIFAMGCFWGVERLFWQLPGV
YSTAAGYTGGYTPNPTYREVCSGDTGHAEAVRIVYDPSVISYEQLLQVFWENHDPAQGMRQGNDHG
TQYRSAIYPLTPEQDAAARASLERFQAAMLAADDDRHITTEIANATPFYYAEDDHQQYLHKNPYGYC
GIGGIGVCLPPEA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001111111111111111
>Q7BGI8_2h0u_0_216
MDREQVVALQHQRFAAKKYDPNRRISQKDWEALVEVGRLAPSSIGLEPWKMLLLKNERMKEDLKP
MAWGALFGLEGASHFVIYLARKGVTYDSDYVKKVMHEVKKRDYDTNSRFAQIIKNFQENDMKLNS
ERSLFDWASKQTYIQMANMMMAAAMLGIDSCPIEGYDQEKVEAYLEEKGYLNTAEFGVSVMACFGY
RNQEITPKTRWKTEVIYEVIE
1000000000000000000000000000000000000000000000000000000001111111111111111
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000
>P77544_3bby_0_213

MSKPAITLWSDAHFFSPYVLSAWVALQEKGLSFHIKTIDLDSGEHLQPTWQGYGQTRRVPLLQIDDF
ELSESSAIAEYLEDRFAPPTWERIYPLDLENRARARQIQAWLRSDLMPIREERPTDVVFAGAKKAPLT
AEGKASAEKLFAMAEHLLVLGQPNLFGEWCIADTDLALMINRLVLHGDEVPERLVDYATFQWQRAS
VQRFIALSAKQSG
11000000000000000000000000000000000001111111111111111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
1
>O53169_3pbi_29_240
DAEPGQWDPTLPALVSAGAPGDPLAVANASLQATAQATQTTLDLGRQFLGGLGINLGGPAASAPSAA
TTGASRIPRANARQAVEYVIRRAGSQMGVPYSWGGGSLQGPSKGVDSGANTVGFDCSGLVRYAFAGV
GVLIPRFSGDQYNAGRHVPPAEAKRGDLIFYGPGGGQHVTLYLGNGQMLEASGSAGKVTVSPVRKAG
MTPFVTRIIEY
11110000000000000000000000000000000000000000000000000000111111111000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>Q5T1C6_4ae8_36_239
SSEEVILKDCSVPNPSWNKDLRLLFDQFMKKCEDGSWKRLPSYKRTPTEWIQDFKTHFLDPKLMK
EEQMSQAQLFTRSFDDGLGFEYVMFYNDIEKRMVCLFQGGPYLEGPPGFIHGGAIATMIDATVGMC
AMMAGGIVMTANLNINYKRPIPLCSVVMINSQLDKVEGRKFFVSCNVQSVDEKTLYSEATSLFIKLNP
AKSLT
11111100000000000000000000000000000000000011111111111111111111111100
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111
>A4XEL3_3c5y_0_211
MKIALIIENSQAAKNAVVHEALTTVAEPLGHKVFNYGMYTAEDKASLTYVMNGLLAGILLNSGAADF
VVTGCGTGMGSMLAANAMPGVFCGLVIDPTDAFLFGQINDGNAISMPYSKGFGWAAELNLQDVYRK
LFDGERGLGYPRERAEIMRKNRGILRELKDASCRDMLTVLKTVDQDLLRAAIAGEKFAELFYPNCKD
DAIANYLRSLDA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>Q5HKE8_4fuo_2016_2222
VDGDSITSTEEIPFDKKREFDPNLAPGTEKVVQKGEPGTKTITTPTTKNPLTGEKVGEGEPTEKITKQ
PVDEIVHYGGEQIPQGHKDEFDPNAPVDSKTEVPGKPGVKNPDTGEVVTPPVDDVTKYGPVDGDSI
TSTEEIPFDKKREFDPNLAPGTEKVVQKGEPGTKTITTPTTKNPLTGEKVGEGKSTEKVTKQPVDEIV
EYGPT
00000000000000000000000000000000000000000000000000000100000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>Q81WF6_3m3h_0_209
MKKEIASHLLEIGAVFLQPNDPFTWSSGMKSPIYCDNRLTLSYPKVRQTIAAGLEELIKEHFPTVEVIA
GTATAGIAHAAWVSDRMDLPMCYVRSKAKGHGKGNQIEGKAEKGQKVVVVEDLISTGGSAITCVEA
LREAGCEVLGIVSIFTYELEAGKEKLEAANVASYSLSDYSALTEVAAEKGIIGQAETKKLQEWRKNPAD

EAWITA
00000000000000000000000000000000000000000000000000000000000000000000000000000
11100000000000000000001111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>E9Q401_4etv_2698_2903
NFNPQPVDTSNITIPEKLEYFINKYAEHSHDKWSMDKLANGWIYGEIYSDSSKIQPLMKPYKLLSEK
EKEIYRWPIKESLKTMLAWGWRIERTREGDSMALYNRTRRISQTSQVSIDAAHGYSPRAIDMSNVTL
SRDLHAMAEMMAENYHNIWAKKKKLELESKGGGNHPLLVPYDTLTAKEKAKDREKAQDIFKFLQIS
GYVVSR
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111111000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>O32393_1wc1_997_1201
GDLTLDLRPEPRLITILFSDIVGFTRMSNALQSQGVAELLNEYLGEMTRAVFENQGTVDKFVGDAIM
ALYGAPEEMSPSEQVRRAIATARQMLVALEKLNQGWQERGLVGRNEVPPVRFRCGIHQGMAVVGLF
GSQERSDFTAIGPSVNIAARLQEATAPNSIMVSAMVAQYVPDEEIIKREFLELKGIDEPVMTCVINPN
MLNQ
11111100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000011
>Q00901_1r4b_40_243
SYADTFTEFTNVEEAKKWGNAQYKKYGLSKPEQEAIKFYTRDASKINGPLRANQGNENGLPADILQK
VKLIDQSFSKMKMPQNIILFRGDDPAYLGPEFQDKILNKDGTINKTVFEQVKAKFLKKDRTEYGYIST
SLMSAQFGGRPIVTKFKVTNGSKGGYIDPISYFPGQLEVLLPRNNSYYISDMQISPNNRQIMITAMIFK
11110000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>Q8A8Z5_3g6i_18_221
GAVDLNKENRDPKYVESIVNRSQKIVDKLGLTDAKVAEDVCNVIANRYFELNDIYEIRDAKVKAVKES
GLTGDAKNEALKAAENEKDAALYRSHFAFPASLSLFLNEEQIEAVKDGMTYGVVKVTYEATLDMIPS
LKEEEKVQIYAWLVEAREFAMDAENSNKKHAAFGKYKGRINNYLAKRGYNLTKEREEWAKRVKAR
GGTL
10000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000111
>P21457_1rec_1_201
GNSKSGALSKEILEELQLNTKFTEEELSSWYQSFLKECPSGRITRQEFQTIYSKFFPEADPKAYAQHVF
RSFDANSDGTLDFKEYVIALHMTSAGKTNQKLEWAFSLYDVDGNGTISKNEVLEIVTAIFKMISPEDT
KHLPEDENTPEKRAEKIWGFFGKKDDDKLTEKEFIEGTLANKEILRLIQFEPQKVKEKLKEKKL
11111110000000000000000000000000000000000000000000000000000000000000000000000
01111100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001111
>Q723E8_3fxa_0_199
MDKQAILDNIHQTWQEEANAISRLPEVTSEEALVKTVEKIAECTGKIVVAGCGTSGVAAKKLVHSFNC

IERPAVFLTPSDAVHGTLGVLQKEDILILISKGGNTGELLNLIPACKTKGSTLIGVTENPDSVIAKEADIF
FPVSVSKEPDPFNMLATASTMAVIASFDAVIVCLMTYMNYTKEQFSVIHPGGAVGNKLLNK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111111111
>P02340_2ioi_91_288
PSQKTYQGNYGFHLGFLQSGTAKSVMCTYSPPLNKLFCQLAKTCPVQLWVSATPPAGSRVRAMAIYK
KSQHMTEVVRRCPHHERCSDGDGLAPPQHLIRVEGNLYPEYLEDRQTFRHSVVVPYEPPEAGSEYT
TIHYKYMCNSSCMGGMNRRPILTIITLEDSSGNLLGRDSFEVRVCACPGRDRRTEEENFRKKEVL
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111111111
>O53706_2yes_0_196
MTATQITGVVLAAGRSNRLGTPKQLLPYRDTTVLGATLDVARQAGFDQLILTLGGAASAVRAAMALD
GTDVVVVEDVERGCAASLRVALARVHPRATGIVLMLGDQPQVAPATLRRIIDVGPATEIMVCRYADGV
GHPFWFSRTVFGELARLHGDKGVWKLVHSGRHPVRELAVDGCVPLDVDTWDDYRRLLESVPS
100000000000000011110000000000000000000000000000000000000000000000000000
000000100000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011
>Q5HCZ5_3ftt_0_198
MTEKEKMLAEKWYDANFDQYLINERARAKDICFELNHTRPSATNKRKELIDQLFQTTTDNVSISIPF
DTDYGWNVKLGKNVYVNTNCYFMDGGQITIGDNVFIGPNCGFYTATHPLNFHHRNEGFEKAGPIHI
GSNTWFGGHVAVLPGVTIGEGSVIGAGSVVTKDIPPHSLAVGNPCKVVRKIDNDLPSETLNDETIK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011111111111
>P49643_3l9q_271_463
SLDQIDLLSTKSFPPCMRQLHKALRENHHLRHGGRMQYGLFLKGIGLTLEQALQFWKQEFIKGKMD
PDKFDKGYSYNIRHSFGKEGKRTDYTPFSCLKIILSNPPSQGDYHGCPFRHSDPELLKQKLQSYKISPG
GISQILDLVKGTHYQVACQKYFEMIHNVDDCGFSLNHPNQFFCESQRILNGGKDIKKE
000000000000000000000000000000000000000000000000000000000011111111100
000000000001111100000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001111111
>P63284_1jbk_158_350
QALKKYTIDLTERAEQGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGE
VPEGLKGRRVLALDMGALVAGAKYRGEFEERLKGVLNDLAKQEGNVILFIDELHTMVGAGKADGAM
DAGNMLKPALARGELHCVGATTLDEYRQYIEKDAALERRFQKVFVAEPSVEDTIAILR
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000011111100000000
000000000000000000000000000000000000000000000000000
>P30086_1beh_0_186
MPVDLSKWSGPLSLQEVDEQPQHPLHVTYAGAAVDELGKVLTPTQVKNRPTSISWDGLDSGKLYTL
VLTDPDAPSRKDPKYREWHHFLVVNMKGNDISSGTVLSDYVGSGPPKGTGLHRYVWLVYEQDRPLK
CDEPILSNRSGDHRGKFKVASFRKKYELRAPVAGTCYQAEWDDYVPKLYEQLSGK

11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001
>Q8S380_3tc2_28_220
LPSDATPVLDVTGKELDPRLSYRIISTFWGALGGDVYLGKSPNSDAPCANGVFRYNSDVGPSGTPVRF
IGSSSHFGQGIFEDELLNIQFAISTSKMCVSYTIWKVGDYDASLGTMLLETGGTIGQADSSWFKIVKSS
QFGYNLLYCPVTTSSDDQFCLKVGVVHQNGKRRLALVKDNPLDVSFKQVQ
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000111110000000000000000000000000000000000
>P61316_1ua8_21_202
DAASDLKSRLDKVSSFHASFTQKVTDGSGAAVQEGQGDLWVKRPNLFNWHMTQPDESILVSDGKT
LWFYNPFVEQATATWLKDATGNTPFMLIARNQSSDWQQYNIKQNGDDFVLTPKASNGNLKQFTIN
VGRDGTIHQFSAVEQDDQRSSYQLKSQQNGAVDAAKFTFTPPQGVTVDDQRK
00000000000000000000000000011111000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011100000000000000000000000
0000000000000000000000000000000000000000
>P12302_2vu4_81_266
AYGEAANVFGKPKKNTEFMPYNGDGFKLLVPSKWNPSKEKEFPGQVLRYEDNFDATSNLSVLVQPT
DKKSITDFGSPEDFLSQVDYLLGKQAYFGKTDSEGGFDSGVVASANVLESSTPVVDGKQYYSITVLTRT
ADGDEGGKHQVIAATVKDGKLYICKAQAGDKRWFKGAKKFVESATSSFSVA
11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000011111111111111111100000000000000000000000000011111000
00000000000000000000000000000000000000000000
>Q65AT0_2ckf_0_173
MSTEQVPVTPDVHYAVEAHYRAEVRLLQTGQYREWLHGMVAEDIHYWMPIYEQRFVRDRRPDPT
PDDAAIYNDDFEELKQRVERLYSGQVWMEDPPSKIRYFVSNVEAFEAENGELDVLSNILVYRNRRQT
EVTVHTLGREDKLRQDGNGFKVFRRKLILDARVTQDKNLYFFC
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>Q5HKQ1_2zcm_0_184
MKDKIIDNAITLFSEKGYDGTTLDDISKSVNIKKASLYYHYDNKEEIYRKSVENCFNYFIDFLLRNHD
DNYSIDGLYQFLFKFIFDVDERYIKLYVQLSSAPEALNSEIKHHLQEINTTLHDELIKYYDPTHIALDKE
DFINLILLFLETWYFRASFSQKFGIIEDSKNRFKDQVYSLLNVFLKK
00000000000000000000000000000000000000000000000000000000000000000011110
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000001
>Q9YBF1_3ajv_0_185
MGDRCAPIKASGVLIGDSVLVTDVEQARSLYSCGYYGQPLDVEKPRGADFEGPLRLSLIESLYLAEKGV
LEVAKPDGSSVGVEDLRTAVRGNPRFSMLYNIYRDLRERGFVVRSGLKFGSDFAVYRLGPGIDHAPFI
VHAYSPEDNIDPVEIVRAGRLSHSVRKKFVFAVTRGGDVSYLMIDWFRP
11111100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000
>Q94734_4hpb_21_204
ACTKNAIAQTGFNKDKYFNGDVWYVTDYLDLEPDDVPKRYCAALAAGTASGKLKEALYHYDPKTQ
DTFYDVSELQVESLGKYTANFKKVDKNGNVKVAVTAGNYYTFTVMYADDSSALIHTCLHKGNKDLG
DLYAVLNRNKDAAAGDKVKSAVSAATLEFSKFISTKENNCAYDNDSLKSLLTK
00000000000000000000000000000000011111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>P0A5L0_1nwa_0_181
MTSNQKAILAGGCFWGLQDLIRNQPGVVSTRVGYSGGNIPNATYRNHGTHAEAVEIIFDPTVTDYRT
LLEFFFQIHDPTTKDRQGNDRGTSYRSAIFYFDEQQKRIALDTIADVEASGLWPGKVVTEVSPAGDF
WEAEPEHQDYLQRYPNGYTCHFVRPGWRLPRRTAESALRASLSPELGT
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000001111111111111111
>Q96Y52_3iwt_0_177
MSHAHKKHKENAPKSLNFYVITISTSRYEKLLKKEPIVDESGDIIKQLLIENGHKIIGYSLVPDDKIKIL
KAFTDALSIDEVDVIISTGGTGYSPTDITVETIRKLFDREIEGFSDVFRLVSFNDPEVKAAAYLTKASAG
IIGKKIVYLLPGSPDAVKLALKELILPEVGHLVYLVRS
11111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>O58465_3d79_1_174
FRMELKIKHPLSKKDVKEIIAQLSQMFGEEIARKMLNKKDEVKVAEFDKTTEIILVNDKPMFIRRKD
LIFPLVIALYNLSDEEDLRKWPRRVVVDEGAVPHILNGADVMAPGIVDADEGIKEGDFVFVVEEKYG
RPLAIGIALMSGKVMKEKNRGKAVKVIHHARDKIWEVTAR
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001
>P0A4Z2_2g1k_0_175
MAPKAVLVGLPGSGKSTIGRRLAKALGVGLLDTDVAIEQRTGRSIADIFATDGEQEFRRIEEDVVRAAL
ADHDGVLSLGGGAVTSPGVRAALAGHTVVYLEISAAEGVRRTGGNTVRPLLAGPDRAEKYRALMAK
RAPLYRRVATMRVDTNRRNPGAVVRHILSRLQVPSPSEAAT
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111
>P35247_3ikn_200_374
PGLKGDKGIPGDKGAKGESGLPDVASLRQQVEALQGQVQHLQAAFSQYKKVELFPNGQSVGEKIFKT
AGFVKPFTEAQLLCTQAGGQLASPRSAAENAALQQLVVAKNEAAFLSMTDSKTEGKFTYPTGESLVY
SNWAPGEPNDDGGSEDCVEIFTNGKWNDRACGEKRLVVCEF
11111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>P09464_1kxo_16_188

VYHDGACPEVKPVDNFDWSNYHGKWWEVAKYPNSVEKYGKCGWAEYTPEGKSVKVSNYHVIHGK
EYFIEGTAYPVGDSKIGKIYHKLTYGGVTKENVFNVLSTDNKNYIIGYYCKYDEDKKGHQDFVWVLSR
SKVLTGEAKTAVENYLIGSPVVDSQKLVYSDFSEAACKVNN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000011000000000000000000000000011000000000000000000000000000
000000000000000000000000001100111
>O14593_3uxg_89_259
DSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKE
RESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGY
TPMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000001111111
>P72223_1t3q_0_167
MQAHEESQLMRISATINGKPRVFYVEPRMHLADALREVVGLTGTKIGCEQGVCGSCTILIDGAPMRS
CLTLAVQAEGCSIETVEGLSQGEKLNALQDSFRRHHALQCGFCTAGMLATARSILAENPAPSRDEVRE
VMSGNLCRCTGYETIIDAITDPAVAEAARRGEV
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>Q86V88_2wm8_0_164
MARLPKLAVFDLDYTLWPFWVDTHVDPPFHKSSDGTVRDRRGQDVRLYPEVPEVLKRLQSLGVPG
AAASRTSEIEGANQLLELFDLFRYFVHREIYPGSKITHFERLQQKTGIPFSQMIFFDDERRNIVDVSKL
GVTCIHIQNGMNLQTLSQGLETFAKAQTGPL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000001111
>P83051_2gzb_0_163
SVILDTKGEPVSNAADAYYLVPVSHGEGGLALAKVGNEAEPKAVVLDPHHRPGLTVRFETPLAIAIIT
ESFFLNIKFVPSSSDSEVWDVSKQYPIGLAVKVTDTKSFVGPFRVEKEGEGYKIVYYPDRGQTGLDIGL
VHRNDKYYLAATEGEPFVFKIRKATYE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000011
>O30195_3vu0_432_592
EMTMDWKEALNWMKENLEAQDYLKAYEKPDYAVLSWWDYGNWILYVAKKAVVCNNFQAGADDA
AKFFTAQSEEEAMKIVEKRKVRYVVTVEELTVKPETNKTKFIPIMQIAGYSPEYMKNKEIIDFFNKTM
LYKLHVENATNLTHFRLLKNFGTVKIFEVK
000000000000000000001111111100000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>P26281_3ude_1_158
TVAYIAIGSNLASPLEQVNAALKALGDIPESHILTVSSFYRTPPLGPQDQPDYLNAAVALETSLAPEELL
NHTQRIELQQGRVRKAERWGPRTLDLDIMLFGNEVINTERLTVPHYDMKNRGFMLWPLFEIAPELV

FPDGEMLRQILHTRAFDKLNKW
000000000000000000000000000000000000000000000000000000000000000000000000
000000000001111000000000000000000000000000000000000000000000000000000000
0000000000000000
>Q8RQP5_1iv1_0_151
MRIGYGEDSHRLEEGRPLYLCGLLIPSPVGALAHSDGDAALHALTDALLSAYGLGDIGLLFPDTDPRW
RGERSEVFLREALRLVEARGAKLLQASLVTLDRPKLGPHRKALVDSLSRLLRLPQDRIGLTFKTSEGL
APSHVQARAVVLLDG
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000001
>Q99ZZ7_2wh7_214_371
NAVNIVMRQPTTPNFSSALNITSANEGGSAMQIRGVEKALGTLKITHENPSVDKEYDKNAAALSIDIV
KKQKGGKGTAAQGIYINSTSGTTGKLLRIRNLNDDKFYVKPDGGFYAKETSQIDGNLKLKDPIANDH
AATKAYVDGEVEKLKALLAAKQM
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000111111
>P14147_3cgz_331_486
VLLSRELHPVAPLLDNLISALNKVYQRKGVNISMDISPEISFVGEQNDFVEVMGNVLDNACKYCLEFV
EISARQTDDHLHIFVEDDGPGIPHSKRSLVFDRGQRADTLRPGQGVGLAVAREITEQYAGQIIASDSLL
GGARMEVVFGRQHPTQKEE
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000111111111111110000000000000000000000000000000000000
00000000111111
>P30960_1kng_38_193
DPSRIPSALIGRPAPQTALPPLEGLQADNVQVPGLDPAAFKGKVSLVNVWASWCVPCHDEAPLLTEL
GKDKRFQLVGINYKDAADNARRFLGRYGNPFGRVGVDANGRASIEWGVYGVPETFVVGREGTIVYKL
VGPITPDNLRSVLLPQMEKALK
111111111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001
>Q8D0Z7_3qra_38_193
EGESSISIGYAQSRVKEDGYKLDKNPRGFNLKYRYEFNNDWGVIGSFAQTRRGFEESVDGFKLIDGDF
KYYSVTAGPVFRINEYVSLYGLLGAGHGKAKFSSIFGQSESRSKTSLAYGAGLQFNPHPNFVIDASYEYS
KLDDVKVGTWMLGAGYRF
000000000000000000000000000000000000000000000000000000000011110000000000
000000000000000000000000000000010000000000000000000000000000000000000000
00000000000000
>B7FGU6_3us6_0_152
MEVGQMRRQWVDYIKSMFMEGFLDGQFLQLQQLQDENNPEFVFEVVSLFFDDSERILKDLSFAVD
QQSIDFKKVDAHVHQFKGSSASIGAQRVKNSCVAFRNFCEEQNIDACRRCLQQVKQEYLLVKNKLET
LLRLEQQIVAAGGSIPMMELN
100000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000001111
>Q12KE2_3lza_17_156
KVGDRPIEQQLALGYIKALTEHDYQTLSKYYNRDSVFYDKTADTKYIGTRSIIAFLQRSHEGVLEFDFN
IEHMFNTGPLVVMIGNYHLRGPGEQFGKPGKIIDIAIPGVTTLKFDPNTQRLTEQVDLMDYQTMSDQ
LQSQ
11100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
>Q7D1C9_2gmy_0_152
MKTRINYAKASPEAFKAVMALENYVQSSGLEHRFIHLIKLRASIINGCAFCVDMHVKESRHDGLSEQ
WINLMSVWRESPVYTEQERALLGWVDAVTKIAETGAPDDAFETLRAHFSDEEIVKITVAIGAINTW
NRIAVGFRSQHPVEAAAKAA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000111111
>A9CK16_2a8n_0_143
MAERTHFMELALVEARSAGERDEVPIGAVLVLDGRVIARSGNRTRELNDVTAHAEIAVIRMACEALG
QERLPGADLYVTLEPCTMCAAAISFARIRRLYYGAQDPKGGAVESGVRFFSQPTCHHAPDVYSGLAES
ESAEILRQF
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11
>Q5YUF0_3r5y_0_145
MRMSSTGEYVPSPSEWIGNQVAQYEASDGAEAGEFDGRPLVILTTVGRKTGALRKTPVMRVEHDGR
YAVVASQGGAPTHPAWYFNLVADPRAQLRDKDAVLSVVARELAGPERAEWWERAVRAYPTYQEYQ
DNTRRLIPVLLLEPG
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000
>Q15819_1j7d_0_144
MAVSTGVKVPRNFRLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYENRIYSLK
VECGPKYPEAPPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENM
KLPQPPEGQTYNN
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000
>Q5LG06_4fr9_23_165
GDDDDTGYLPPSQAIQDALKKLYPNATAIKWEQKGVYYVADCQADGREKEVWFDANANWLMTET
ELNSINNLPPAVLTAFMESSYNNWVVDDVVILEYPNEPSTEFVVTVEQGKKVDLYFSEGGGLLHEKD
VTNGDDTHWPRV
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0
>Q9ULD4_3pfs_1055_1194

DYNGSGRSLLLPFEDRGDLEPLELVWAKCRGYPSYPALIIDPKMPREGLLHNGVPIPVPPLDVLKLGE
QKQAEAGEKLFLVLFFDNKRTWQWLPRDKVLPLGVEDTVDKLKMLEGRKTSIRKSVQVAYDRAMI
HLSRVRG
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
>Q8PDF7_3i0y_0_138
MSESNRQRATGLVQAYYEAFNRGDWDAMLAFLAEDVAHDLNQGPREIGRAAFASFLQRMNDSYRE
QLRDIVVTANDEGTRVGAEYVVHGVYHTTDEGLPDANGQTYVLPGGAFFDVRDGQITRVTNYYNLQ
EWIAQVSR
1100000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q58625_2eif_0_131
MPGTKQVNVGSLKVGQYVMIDGVPCEIVDISVSKPGKHGGAKARVVGIGIFEKVKKEFVAPTSSKVEV
PIIDRRKGQVLAIMGDMVQIMDLQTYETLELPIPEGIEGLEPGGEVEYIEAVGQYKITRVIGGK
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000111
>Q81DD6_3oms_0_134
MSNANQKITTFLMFEGKAEEAMNFYTSLFDQSEIVSISRYDENGPGKEGTVIHATFTLNGQEFMCID
SYVNHNFTFTPAMSLYVTCETEEEIDTVFHKLAQDGAILMPLGSYPFSKKFGWLNDKYGVSWQLTL
AE
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
>Q9BWU0_4h87_148_275
ARAPPYQEPPWGGPATAPYSLETLKGGTILGTRSLKGTSYCLFGRLSGCDVCLEHPSVSRYHAVLQHR
ASGPDGECDSNGPGFYLYDLGSTHGTFLNKTRIPPRTYCRVHVGHVVRFGGSTRLFILQG
0000000000000000000000000000000000000000000000000000000000000000000000000000
0011111100000000000000000000000000000000000000000000000000
>Q8DU42_3l7t_0_133
MKLKAVHHVALIVSDYDKSYEFYVNQLGFEVIRENHRPKRHDYKLDLKCGDIELEIFGNKLTDSNYC
APPERISWPREACGLRHLAFYVEDVEASRQELIALGIRVEEVRYDDYTGKKMAFFFDPDGLPLELHE
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q8PBH4_2fuj_0_133
MSEHKILARVPISVRWRDMDSMGHVNNAKYISYLEEARVRWMLGVEGVAMTDRIAPVVAATNVNY
KRPLVWPNDILVELFVERLGSSSVTIGHRILDQKDEGVLYSDGNVVVVWIDTQTGKSASLPDAVRAAS
S
1111000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000111111111111
>Q9NQG5_4fu3_1_134
SSFSESALEKKLSELSNSQQSVQTLSLWLIHHRKHAGPIVSVWHRELRKAKSNRKLTFLYLANDVIQN
SKRKGPEFTREFESVLVDAFSHVAREADEGCKKPLERLLNIWQERSVYGGEFIQQLKLSMEDSKSP
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000111111
>P0A772_3n3a_0_132

MSQLVYFSSSSENTQRFIERLGLPAVRIPLNERERIQVDEPYILIVPSYGGGGTAGAVPRQVIRFLNDEH
NRALLRGVIASGNRNFGEAYGRAGDVIARKCGVPWLYRFELMGTQSDIENVRKGVTEFWQRQP
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>Q3KJ04_4fbo_0_132
MSKYAVANQWGGSSAPWHPGGTWVLGARDNQNVVAIEIKSGDGGKSFTGTMTYAGEGPIGFKAQR
TGQNQYNVENQWGGNDAPWHPGGKWVIGGRDNQNVIALSVTSSDGGKNLSGTNTYANEGPIGFR
GQIE
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>B3VH91_2xw6_0_131
MRALALIAHDAKKEEMVAFCQRHREVLARFPLVATGTTGRRIEEATGLTVEKLLSGPLGGDQQMGA
RVAEGRILAVIFFRDPLTAQPHEPDVQALLRVCDVHGVPLATNPMAAEALIPWLQSLVGYQTPQGQ
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000001111111
>B9UIZ4_4iag_0_131
MAVLLSGVPVLAALDVSTTQKFWIEVLGFTEEFLTEDFGGVSRDGVELFICSVEDQVVPDNTQAWLR
VRDIDALHAEWSARVSSDYADASHPAMTAIREVPWGREFGLRDPAGNLVHFSELSEAAETTRTVR
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111
>Q7TS55_2q8o_42_172
SLKPTAIESCMVKFELSSSKWHMTSPKPHCVNTTSDGKLKILQSGTYLIYGQVIPVDKKYIKDNAPFV
VQIYKKNDVLQTLMNDFQILPIGGVYELHAGDNIYLKFNSKDHIQKTNTYWGIILMPDLPFIS
11111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>P31948_1elr_222_351
KQALKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKCRELCEKAIEV
GRENREDYRQIAKAYARIGNSYFKEEKYKDAIHFYNKSLAEHRTPDVLKKCQQAEKILKEQERL
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000111
>O60885_2ouo_332_459
KDVPDSQQHPAPEKSSKVSEQLKCCSGILKEMFAKKHAAYAWPFYKPVDVEALGLHDYCDIIKHPMD
MSTIKSKLEAREYRDAQEFGADVRLMFSNCYKYNPPDHEVVAMARKLQDVFEMRFAKMPDE
11111111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000001
>Q0INY7_1wdd_47_174
MQVWPIEGIKKFETLSYLPPLTVEDLLKQIEYLLRSKWVPCLEFSKVGFVYRENHRSPGYYDGRYWT
MWKLPMFGCTDATQVLKELEEAKKAYPDAFVRIIGFDNVRQVQLISFIAYKPPGCEESGGN
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>Q46495_1vzi_0_125
MPERLQVYKCEVCGNIVEVLNGGIGELVCCNQDMKLMSENTVDAAKEKHVPVIEKIDGGYKVKVGA
VAHPMEEKHYIQWIELLADDKCYTQFLKPGQAPEAVFLIEAAKVVAREYCNIHGHWKAEN
10000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000
>A5K893_2fo3_65_189
KYNMGNANYRIQKELHNFLNNPPINCTLDVHPNNIRIWIVKYVGLENTIYANEVYKLKIIFPDDYPL
KPPIVYFLQKPPKHTHVYSNGDICLSLLGDDYNPSLSISGLVLSIISMLSSAKEKKLP
111111110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000011111111
>P06909_2yby_321_443
LKPCEFPQFKYGRLYYEESLRPNFPVSIGNKYSYKCDNGFSPPSGYSWDYLRCTAQGWEPEVPCVRK
CVFHYVENGDSAYWEKVYVQGQSLKVQCYNGYSLQNGQDTMTCTENGWSPPPKCIR
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001
>Q63042_1oqc_73_197
MRTQQKRDIKFREDCPQDREELGRNTWAFLHTLAAYYPDMPTPEQQQDMAQFIHIFSKFYPCEEC
AEDIRKRIDRSQPDTSTRVSFSQWLCRLHNEVNRKLGKPDFDCSRVDERWRDGWKDGSCD
111111111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000001
>O16259_4gco_130_252
RLAYINPELAQEEKNKGNEYFKKGDYPTAMRHYNEAVKRDPENAILYSNRAACLTKLMEFQRALDD
CDTCIRLDSKFIKGYIRKAACLVAMREWSKAQRAYEDALQVDPSNEEAREGVRNCLR
111000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>P17724_3aq6_0_120
MNKPQTIYEKLGGENAMKAAVPLFYKKVLADERVKHFFKNTDMDHQTKQQTDFLTMLLGGPNHY
KGKNMTEAHKGMNLQNLHFDAIIENLAATLKELGVTDAVINEAAKVIEHTRKDMLGK
111100000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000
>Q02784_3gx8_29_149
LSTEIRKAIEDAIESAPVVLFMKGTPEFPKCGFSRATIGLLGNQGVDPAKFAAYNVLEDPELREGIKEF
SEWPTIPQLYVNKEFIGGCDVITSMARSGELADLLEEAQALVPEEEEETKDR
100000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000111111111
>A1RHE3_3myf_804_922
FDLHTLNWDLCLTQANHKSNLALEMLKMLLDSLPETVEKIQTALGQNDQATMLSTIHKLHGASCYC
GVPTTQRLCQEIESALKRQTPVEDLEPEILELLDELTKVESAVKQVLSQLSAE
100000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000011
>Q5PSV9_3va1_28_138
EPIGQLRLFSGTHGPERDFPLYLGKNVVGRSPDCSVALPFPSISKQHAVIEISAWNKAPILQDCGSLNG
TQIVKPPRVLPPGVSHRLRDQELILFADFPCQYHRLDVPPPL
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111
>Q9NP99_1smo_20_138
ATKLTEEKYELKEGQTLDVKCDYTLEKFASSQKAWQIIRDGEMPKTLACTERPSKNSHPVQVGRIILE
DYHDHGLLRVRMVNLQVEDSGLYQCVIYQPPKEPHMLFDRIRLVVTKGFSG

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000001111
>Q7XZK3_2vm1_0_117
MAAEEGAVIACHTKQEFDTHMANGKDTGKLVIIDFTASWCGPCRVIAPVFAEYAKKFPGAIFLKVDV
DELKDVAEAYNVEAMPTFLFIKDGEKVDSVVGGRKDDIHTKIVALMGSAST
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111
>Q9HCM2_4e74_1487_1602
DKLIRQQIDYKTLVLSCVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSHRPKAADMDLEW
RQGSGARMILQDEDITTKIENDWKRLNTLAHYQVPDGSVVALVSKQVT
111111110000000000000111100000000000000000000000000000000000000000000000
000000000000000011100000000000000000000000000
>P12643_2h64_282_395
QAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIVQTL
VNSVNSKIPKACCVPTELSAISMLYLDENEKVVLKNYQDMVVEGCGCR
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000
>A6T926_3qva_0_107
MSTLSTHILDISTGTPAEGVTVSLSREGETLANLVTNAQGRIATFSAAPLPAGRYCLTAETGAWFARAG
RESVFTRAQIDFVIGEAAEDHFHLPFLIAPGGWSTYRGS
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000011100000000000000000000
>Q97QU3_2idl_0_113
MIQAVFERAEDGELRSAEITGHAESGEYGLDVVCASVSTLAINFINSIEKFAGYEPILELNEDEGGYLM
VEIPKDLPSHQREMTQLFFESFFLGMANLSENYSEFVQTRVITEN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000001
>A3DHB8_1ybx_0_112
MAKGGFPGFGGNINNLVKQAQKMQRDMERVQEELKEKTVEASAGGGAVTVVATGRKDIKEITIKPE
VVDPDDVEMLQDLILAAVNEALRKADEMVTAEISKITGGLGGIPGLF
111111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111111111
>A9CI62_2q2i_0_112
MSGEISYADFEKVDIRVGTIVEAVPFPEARKPAIKVKIDFGPEIGIKKSSAQITVHYTPESLVGRQVLGV
VNFPPRQIGPFRSEVLTLGFADANGDIVLAAVERPVPNGEKMC
100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>O04350_3mxz_0_112
MATIRNLKIKTSTCKRIVKELHSYEKEVEREAAKTADMKDKGADPYDLKQQENVLGESRMMIPDCH
KRLESALADLKSTLAELEETDEKEGPEIEDAKKTVADVEKQFPTEDA
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000001000000000000000000000111111
>Q76CS9_3ah7_0_112
MPLVTFLPHEKFCPEGLTVEVKPGTNILELAHDHHIEMESACGGVKACTTCHCIVRKGFDSLEEADE

LEEDMLDKAWGLEAQSRLGCQVFVADEDLTIEIPKYSLNHAAEAPH
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001111
>Q16665_4h6j_237_347
DSKTFLSRHSLDMKFSYCDERITELMGYEPEELLGRSIYEYYHALDSDHLTKTHHDMFTKGQVTTGQ
YRMLAKRGGYVWVETQATVIYNTKNSQPQCIVCVNYVVSGIIQH
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011111
>Q8ZMZ1_4dy5_22_132
TGKNVNVEFDKGQNSARYSGVIKGYDYDTYNFQARKGQKVHVSISNEGADTYLFGPGISDSVDLSRYS
SELDGNGQYTLPASGKYELKVLQTRNEARKNKAKKYSVNIQIK
10000000001100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>Q8NX62_1xbw_0_106
MKFMAENRLTLTKGTAKDIIERFYTRHGIETLEGFDGMFVTQTLEQEDFDEVKILTVWKSKQAFTD
WLKSDVFKAAHKHVRSKNEDESSPIINNKVITYDIGYSYMK
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>Q9KFX8_4es3_0_95
MLVLITYDVQTSSMGGTKRLRKVAKACQNYGQRVQNSVFECIVDSTQLTSLKLELTSLIDEEKDSLRIY
RLGNNYKTKVEHIGAKPSIDLEDPLIF
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>Q9KA76_3on1_0_100
MSEAKWLSLLGLAARARQLLTGEEQVVKAVQNGQVTLVILSSDAGIHTKKKLLDKCGSYQIPVKVVG
NRQMLGRAIGKHERVVIGVKDAGFSRKLAALIDE
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>P0A676_2fvh_0_99
MRLTPHEQERLLLSYAAELARRRRARGLRLNHPEAIAVIADHILEGARDGRTVAELMASGREVLGRD
DVMEGVPEMLAEVQVEATFPDGTKLVTVHQPIA
10000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>Q836C2_2hwv_134_233
TIGDLTIHPDAYMVSKRGEKIELTHREFELLYYLAKHIGQVMTREHLLQTVWGYDYFGDVRTVDVTV
RRLREKIEDSPSHPTYLVTRRGVGYYLRNPEQE
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>P07311_2vh7_0_98
MAEGNTLISVDYEIFGKVQGVFFRKHTQAEGKKLGLVGWVQNTDRGTVQGQLQGPISKVRHMQEW
LETRGSPKSHIDKANFNNEKVILKLDYSDFQIVK
11111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>P43214_2vxq_26_121

VPKVTFTVEKGSNEKHLAVLVKYEGDTMAEVELREHGSDEWVAMTKGEGGVWTFDSEEPLQGPFN
FRFLTEKGMKNVFDDVVPEKYTIGATYAPEE
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>P00171_1cyo_5_97
SKAVKYYTLEEIQKHNNSKSTWLILHYKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHSTDA
RELSKTFIIGELHPDDRSKITKPSES
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111
>P25208_1n1j_50_142
SFREQDIYLPIANVARIMKNAIPQTGKIAKDAKECVQECVSEFISFITSEASERCHQEKRKTINGEDILF
AMSTLGFDSYVEPLKLYLQKFRE
11111100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q72LN8_2d8d_0_89
MDERIQALRKEVDRVNREILRLLSERGRLVQEIGRLQTELGLPHYDPKREEEMLAYLTAENPGPFPD
ETIRKLFKEIFKASLDLEERQDQ
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111
>Q6ZN17_4a4i_23_110
ESQVLRGTGHCKWFNVRMGFGFISMINREGSPLDIPVDVFVHQSKLFMEGFRSLKEGEPVEFTFKKS
SKGLESIRVTGPGGSPCLGSE
11100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>P00208_3eun_1_82
ALMITDECINCDVCEPECPNGAISQGDETYVIEPSLCTECVGHYETSQCVEVCPVDCIIKDPSHEETED
ELRAKYERITGEG
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000001
>P21859_1j2l_0_69
GEECDCGSPSNPCCDAATCKLRPGAQCADGLCCDQCRFKKKRTICRIARGDFPDDRCTGQSADCPR
WNGL
00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000011
>Q9S9F3_3rdy_0_68
LRQCSGKQEWPELVGERGSKAAKIIENENEDVRAIVLPEGSAVPRDLRCDRVWVFVDERGVVVDTP
VVM
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>O35964_3c0c_302_367
MPPLDQPSCKALYDFEPENDGELGFREGDLITLTNQIDENWYEGMLHGQSGFFPLSYVQVLVPLPQ
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>O43763_3a03_161_215
TSFSRSQVLELERRFLRQKYLASAERAALAKALRMTDAQVKTWFQNRRTKWRRQT
11000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
>O89100_1oeb_264_321

VRWARALYDFEALEEDELGFRSGEVVEVLDSSNPSWWTGRLHNKLGLFPANYVAPMMR
0000000000000000000000000000000000000000000000000000000001
>P09152_1q16_0_1246
MSKFLDRFRYFKQKGETFADGHGQLLNTNRDWEDGYRQRWQHDKIVRSTHGVNCTGSCSWKIYV
KNGLVTWETQQTDYPRTRPDLPNHEPRGCPRGASYSWYLYSANRLKYPMMRKRLMKMWREAKA
LHSDPVEAWASIIEDADKAKSFKQARGRGGFVRSSWQEVNELIAASNVYTIKNYGPDRVAGFSPIPAM
SMVSYASGARYLSLIGGTCLSFYDWYCDLPPASPQTWGEQTDVPESADWYNSSYIIAWGSNVPQTRT
PDAHFFTEVRYKGTKTVAVTPDYAEIAKLCDLWLAPKQGTDAAMALAMGHVMLREFHLDNPSQYF
TDYVRRYTDMPMLVMLEERDGYYAAGRMLRAADLVDALGQENNPEWKTVAFNTNGEMVAPNGSI
GFRWGEKGKWNLEQRDGKTGEETELQLSLLGSQDEIAEVGFPYFGGDGTEHFNKVELENVLLHKLP
VKRLQLADGSTALVTTVYDLTLANYGLERGLNDVNCATSYDDVKAYTPAWAEQITGVSRSQIIRIARE
FADNADKTHGRSMIIVGAGLNHWYHLDMNYRGLINMLIFCGCVGQSGGGWAHYVGQEKLRPQTG
WQPLAFALDWQRPARHMNSTSYFYNHSSQWRYETVTAEELLSPMADKSRYTGHLIDFNVRAERM
GWLPSAPQLGTNPLTIAGEAEKAGMNPVDYTVKSLKEGSIRFAAEQPENGKNHPRNLFIWRSNLLG
SSGKGHEFMLKYLLGTEHGIQGKDLGQQGGVKPEEVDWQDNGLEGKLDLVVTLDFRLSSTCLYSDII
LPTATWYEKDDMNTSDMHPFIHPLSAAVDPAWEAKSDWEIYKAIAKKFSEVCVGHLGKETDIVTLP
IQHDSAAELAQPLDVKDWKKGECDLIPGKTAPHIMVVERDYPATYERFTSIGPLMEKIGNGGKGIAW
NTQSEMDLLRKLNYTKAEGPAKGQPMLNTAIDAAEMILTLAPETNGQVAVKAWAALSEFTGRDHT
HLALNKEDEKIRFRDIQAQPRKIISSPTWSGLEDEHVSYNAGYTNVHELIPWRTLSGRQQLYQDHQ
WMRDFGESLLVYRPPIDTRSVKEVIGQKSNGNQEKALNFLTPHQKWGIHSTYSDNLLMLTLGRGGP
VVWLSEADAKDLGIADNDWIEVFNSNGALTARAVVSQRVPAGMTMMYHAQERIVNLPGSEITQQR
GGIHNSVTRITPKPTHMIGGYAHLAYGFNYYGTVGSNRDEFVVVRKMKNIDWLDGEGNDQVQESVK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000011
>Q8G9Q2_3ttq_1758_2834
QAGHYITKNGNDWQYDTNGELAKGLRQDSNGKLRYFDLTTGIQAKGQFVTIGQETYYFSKDHGDAQ
LLPMVTEGHYGTITLKQGQDTKTAWVYRDQNNTILKGLQNINGTLQFFDPYTGEQLKGGVAKYDDK
LFYFESGKGNLVSTVAGDYQDGHYISQDGQTRYADKQNQLVKGLVTVNGALQYFDNATGNQIKNQQV

IVDGKTYYFDDKGNGEYLFTNTLDMSTNAFSTKNVAFNHDSSSFDHTVDGFLTADTWYRPKSILAN
GTTWRDSTDKDMRPLITVWWPNKNVQVNYLNFMKANGLLTTAAQYTLHSDQYDLNQAAQDVQV
AIERRIASEHGTDWLQKLLFESQNNNPSFVKQQFIWNKDSEYHGGGDAWFQGGYLKYGNNPLTPTT
NSDYRQPGNAFDFLLANDVDNSNPVVQAENLNWLHYLMNFGTITAGQDDANFDSIRIDAVDFIHND
TIQRTYDYLRDAYQVQQSEAKANQHISLVEAGLDAGTSTIHNDALIESNLREAATLSLTNEPGKNKPL
TNMLQDVDGGTLITDHTQNSTENQATPNYSIIHAHDKGVQEKVGAAITDATGADWTNFTDEQLKA
GLELFYKDQRATNKKYNSYNIPSIYALMLTNKDTVPRMYYGDMYQDDGQYMANKSIYYDALVSLMT
ARKSYVSGGQTMSVDNHGLLKSVRFGKDAMTANDLGTSATRTEGLGVIIGNDPKLQLNDSDKVTLD
MGAAHKNQKYRAVILTTRDGLATFNSDQAPTAWTNDQGTLTFSNQEINGQDNTQIRGVANPQVSGY
LAVWVPVGASDNQDARTAATTTENHDGKVLHSNAALDSNLIYEGFSNFQPKATTHDELTNVVIAKN
ADVFNNWGITSFEMAPQYRSSGDHTFLDSTIDNGYAFTDRYDLGFNTPTKYGTDGDLRATIQALHH
ANMQVMADVVDNQVYNLPGKEVVSATRAGVYGNDDATGFGTQLYVTNSVGGGQYQEKYAGQYLEA
LKAKYPDLFEGKAYDYWYKNYANDGSNPYYTLSHGDRESIPADVAIKQWSAKYMNGTNVLGNGMG
YVLKDWHNGQYFKLDGDKSTLPQI
11111111111111111111110000000000000000000000000000000000000000000000
00000000011111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
001111111111
>Q82PP4_3w5m_0_1029
MSALRVTSPSVEYVQRPLGLDAAHPRLSWPMASAAPGRRQSAYQVRVASSAAGLSHPDVWDSGKVV
SDDSVLVPYAGPPLKPRTRYFWSVRVWDADGGASEWSAPSWWETGLMGASQWSAKWISAPAPLT
EAPSLEGSSWIWFPEGEPANSAPAATRWFRRTVDLPDDITGATLAISADNVYAVSVDGAEVARTDLE
ADNEGWRRPAVIDVLDHVHSGNNTLAVSASNASVGPAGWICVLVLTTASGEKKIFSDASWKSTDHEP
ADGWREPDFDDSGWPAAKVAAAWGAGPWGRVAPVASAANQLRHEFRLPHKKVSRARLYATALGLY
EAHLNGRRVGRDQLAPGWTDYRKRVQYQTYDVTSSVRPGANALAAYVAPGWYAGNVGMFGPHQY
GERPALLAQLEVEYADGTSERITSGPDWRAASGPIVSADLLSGETYDARKETAGWTSPGFDDRAWL
AVRGADNDVPEQIVAQVDGPVRIAKELPARKVTEPKPGVFVLDLGQNMVGSVRLRVSGDAGTTVRL
RHAEVLNPDGTIYTANLRSAAATDTYTLKGQGEETYEPRFTFHGFRYVEVTGFPGKPSTTSVTGRVM
HTSAPFTFEFETNVPMLNKLHSNITWGQRGNFLSVPTDTPARDERLGWTGDINVFAPTAAYTMESA
RFLTKWLVDLRDAQTSDGAFTDVAPAVGNLGNGVAGWGDAGVTVPWALYQAYGDRQVLADALPSV
HAWLRYLEKHSDGLLRPADGYGDWLNVSDETPKDVIATAYFAHSADLAARMATELGKDAAPYTDL
FTRIRKAFQTAYVASDGKVKGDTQSAYVLTLSMNLVPDALRKAAADRLVALIEAKDWHLSTGFLGTP

RLLPVLTDTGHTDVAYRLLHQRTFPSWGYPIDKGSTTMWERWDSIQPDGGFQTPEMNSFNHYAYGS
VGEWMYANIAGIAPGRAGYRQVVIRPRPGGEVTSARATFASLHGPVSTRWQQRSGGFVLTCSVPPNT
TAEVWIPADHPDRVQHTHGTFVRAEDGCAVFEVGSGSHRFTV
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000
>Q8KRF6_1yq2_0_1022
MTTADVSYLTDQGPGSGRRVPARSWLHSDAPALSLNGDWRFRLLPAAPGTAGAGSVLPSGETVEGV
AAESYDDAAWDTLPVPSHWVMGQDGKYGRPIYTNVQYPFPIDPPHVPDANPTGDFRRRFDVPAQ
WFESTTAALTLRFDGVESRYKVWVNGQEIGVGSGSRLAQEFDVSDALRAGSNLLVVRVHQWSAASY
LEDQDQWWLPGIFRDVTLQARPAGGITDAWLRTGWSARSGAGTGTIDPEITADATAFPVTLSVPELG
VNVTWKSAEEVAPLALENVEPWSAEVPRLYEASVSSAAESISVRLGFRTVRIVGDQFLVNGRRVVFH
GVNRHETHPDRGRVFDEAGAREDLALMKRFNVNAIRTSHYPPHPRLLDLADEMGFWVILECDLET
HGFEAGGWVENPSDVPAWRDALVDRMERTVERDKNHPSIVMWSLGNESGTGSNLAAMAAWAHA
RDSSRPVHYEGDYTGAYTDVYSRMYSSIPETDSIGRNDSHALLLGCDSAESARQRTKPFILCEYVHAM
GNGPGAMDQYEALVDKYPRLHGGFVWEWRDHGIRTRTAEGMEFFAYGGDFGEVVHDSNFVMDGM
VLSDSTPTPGLYEFKQIVSPIRLGLSLPAGGKPTLAVANLRHTADASDVVLRWRVEHDGAVAASGEVA
AEGSDGPLRAGESATIALPAMPAAPLGETWLTVEAVLRDATGWAPAGHPLGAVQLDLSAPAVPTRSP
RPATPLDGALPVSLGPATFDAGTLVSLAGQPVSGPRLELWRAPTDNDRGAGFGAYGPGDPWLNSGR
GVPAPSSEAVWKQAGLDRLTRRVEDVAALPDGIRVRTRYAAADSTHSVAVEENWQLDGGELCLRIDI
TPSAGWNLVWPRIGVRWDLPTDVDGAAWFGAGPRESYPDSMHATVVARHAASLEELNVPYARPQ
ETGHRSDVRWLELDRAGAPWLRIDAEPDAAGRRPGFSLARHTAQEIAAAGHPHELPTPSHSYLYVD
AAQHGLGSRACGPDVWPDFALRPEARTLKLRISPA
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000
>Q70SY0_3og2_20_1022
TSIGLHGGRPRDIILDDAKGPLQNIVTWDEHSLFVHGERVVIFSGEVHPFRLPVPSLYLDVFHKIKAL
GFNTVSFYVDWALLEGKPGRFRADGIFSLEPFFEAATKAGIYLLARPGPYINAEVSGGGFPGWLQRV
KGKLRTDAPDYLHATDNYVAHIASIIAKAQITNGGPVILYQPENEYSGAAEGVLFPNKPYMQYVIDQA
RNAGIIVPLINNDAFPGGTGAPGTGLGSVDIYGHDGYPLGFDCAHPSAWPDNGLPTTWRQDHLNISP
STPFSLVEFQGGAFDPFGGWGFEQCSALVNHEFERVFYKNNMAAGVTIFNIYMTFGGTNWGNLGHP
GGYTSYDYGASIREDRRIDREKYSELKLQGQFLKVSPGYITATPENATQGVYSDSQNIVITPLLAKESG
DFFVVRHANYSSTDTASYTVKLPTSAGDLTIPQLGGSLTLTGRDSKIHVTDYPVGKFTLLYSTAEIFTW
NEFAEKTVLVLYGGAQELHEFAVKNPFGSSKTAKAKKIEGSNVTIHTTSNLTVVLQWTASSARQVVQL
GSLVIYMVDRNSAYNYWVPTLPGSGKQSAYGSSLMNPDSVIINGGYLIRSVAIKGNALSVQADFNVTT
PLEIIGIPKGISKLAVNGKELGYSVSELGDWIAHPAIEIPHVQVPELTKLKWYKVDSLPEIRSNYDDSR
WPLANLRTSNNTYAPLKTPVSLYGSDYGFHAGTLLFRGRFTARTARQQLFLSTQGGSAFASSVWLND
RFIGSFTGFDAASAANSSYTLDRLVRGRRYILTVVVDSTGLDENWTTGDDSMKAPRGILDYALTSSSG
ANVSISWKLTGNLGGEDYRDVFRGPLNEGGLFFERQGFHLPSPPLSDFTHGPSSSSSSSSPLDGIAHA
GIAFYAAKLPLHLPAQEYDIPLSFVFDNATAAAPYRALLYVNGFQYGKYVSNIGPQTEFPVPEGILDYN
GDNWIGVALWALESRGAKVPGLALKSKSPILTGRERVEVVKGPHFKKRHGAY
1111111111111111100000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000
>Q38HX4_2yaj_0_896
MNVKETKLEDVLKSRGIDMKDAYNISEADIPEAKESTQKLMDIYYTLKVTADMEAAYWYNRTWWE
NDGEVIEVRRAKAVAASLSHMTPTILPYEKLVMNKTKNVRGAFPFPWVCASFFNAQAEALMNEVD
APAENEADSVSVVGAGGGNVTESYGNVISIAKKFGMRKEEIPVLVKTSKPWEGISVEELSNKYSKMTP
GYDQFKNIMESVICMFDSFAIPQGREVINYYMPLQYGFDGIIKLCDEKIAEVMGEAGDDGDFGMSRG
YYYAAMKEITKGLSAWCENYSKRAKYLASIETDSEIKANYEKIEEVMGNIAHKKPANFWEAIQMTLC
CHFGVVNEDPQSGLSIGRLGQVLQPFYEKDVEDGIMTDEEVIELLELYRIKITCIECFASAGVSGGVLSG

NTFNNLSLGGQNYDGLSAVTPLEYLIVEAGMRNQTPQPTLSVLYDEKTPEDFLMKAASCTKLGLGYP
AWMNNQTGMNFMMRNYGPEGMDLHDARAWCLGGCLESAPGCFLPLEYNGKVTMIPGGASPTCG
TGVHFIGMPKVLELVLTNGLDKRTGKQVYPPHNKKLDSYETMVNQWKEYMELTTDVVNRCNNIQM
DIWRKYNMPAVNSLLKPDCFKKGKHIGTMGARYNSCINFESCGTITFVNSLSSIKKNVFDDSKFTIEE
MTDAMLNNFGFKTAYETEVFSPDFRESTDKSTKYEKIFAACVNAPKYGNADKYADEIFKAYHYYIYD
MTHKFRSYYGKPLYLCQISVSTHGPQGFVTLATADGRLAGTTYSDGSVSAAAGTDKNGIYAIFESATV
YDHSMHQNAQMNLKLHPTAVKGINGTRKLLDLVRAYMRKGGFHVQFNVVDSKTLRDAQLTPEKYR
ELMVRVAGFTQYWCEIGKPIQDEVIYRTEYDK
11111111111111111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>Q06142_2bpt_0_860
MSTAEFAQLLENSILSPDQNIRLTSETQLKKLSNDNFLQFAGLSSQVLIDENTKLEGRILAALTLKNEL
VSKDSVKTQQFAQRWITQVSPEAKNQIKTNALTALVSIEPRIANAAAQLIAAIADIELPHGAWPELMK
IMVDNTGAEQPENVKRASLLALGYMCESADPQSQALVSSSNNILIAIVQGAQSTETSKAVRLAALNAL
ADSLIFIKNNMEREGERNYLMQVVCEATQAEDIEVQAAAFGCLCKIMSLYYTFMKPYMEQALYALTIA
TMKSPNDKVASMTVEFWSTICEEEIDIAYELAQFPQSPLQSYNFALSSIKDVVPNLLNLLTRQNEDPE
DDDWNVSMSAGACLQLFAQNCGNHILEPVLEFVEQNITADNWRNREAAVMAFGSIMDGPDKVQRT
YYVHQALPSILNLMNDQSLQVKETTAWCIGRIADSVAESIDPQQHLPGVVQACLIGLQDHPKVATNCS
WTIINLVEQLAEATPSPIYNFYPALVDGLIGAANRIDNEFNARASAFSALTTMVEYATDTVAETSASIS
TFVMDKLGQTMSVDENQLTLEDAQSLQELQSNILTVLAAVIRKSPSSVEPVADMLMGLFFRLLEKKD
SAFIEDDVFYAISALAASLGKGFEKYLETFSPYLLKALNQVDSPVSITAVGFIADISNSLEEDFRRYSDA
MMNVLAQMISNPNARRELKPAVLSVFGDIASNIGADFIPYLNDIMALCVAAQNTKPENGTLEALDYQ
IKVLEAVLDAYVGIVAGLHDKPEALFPYVGTIFQFIAQVAEDPQLYSEDATSRAAVGLIGDIAAMFPDG
SIKQFYGQDWVIDYIKRTRSGQLFSQATKDTARWAREQQKRQLSL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
```
```

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000
>P07374_4gy7_0_839
MKLSPREVEKLGLHNAGYLAQKRLARGVRLNYTEAVALIASQIMEYARDGEKTVAQLMCLGQHLLG
RRQVLPAVPHLLNAVQVEATFPDGTKLVTVHDPISRENGELQEALFGSLLPVPSLDKFAETKEDNRIP
GEILCEDECLTLNIGRKAVILKVTSKGDRPIQVGSHYHFIEVNPYLTFDRRKAYGMRLNIAAGTAVRFE
PGDCKSVTLVSIEGNKVIRGGNAIADGPVNETNLEAAMHAVRSKGFGHEEEKDASEGFTKEDPNCPF
NTFIHRKEYANKYGPTTGDKIRLGDTNLLAEIEKDYALYGDECVFGGGKVIRDGMGQSCGHPPAISLD
TVITNAVIIDYTGIIKADIGIKDGLIASIGKAGNPDIMNGVFSNMIIGANTEVIAGEGLIVTAGAIDCHVH
YICPQLVYEAISSGITTLVGGGTGPAAGTRATTCTPSPTQMRLMLQSTDDLPLNFGFTGKGSSSKPDEL
HEIIKAGAMGLKLHEDWGSTPAAIDNCLTIAEHHDIQINIHTDTLNEAGFVEHSIAAFKGRTIHTYHS
EGAGGGHAPDIIKVCGIKNVLPSSTNPTRPLTSNTIDEHLDMLMVCHHLDREIPEDLAFAHSRIRKKT
IAAEDVLNDIGAISIISSDSQAMGRVGEVISRTWQTADKMKAQTGPLKCDSSDNDNFRIRRYIAKYTIN
PAIANGFSQYVGSVEVGKLADLVMWKPSFFGTKPEMVIKGGMVAWADIGDPNASIPTPEPVKMRPM
YGTLGKAGGALSIAFVSKAALDQRVNVLYGLNKRVEAVSNVRKLTKLDMKLNDALPEITVDPESYTV
KADGKLLCVSEATTVPLSRNYFLF
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000001111000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000
>Q8AAK6_2vjx_25_863
QGNDTSEVMLLDTGWEFSQSGTEKWMPATVPGTVHQDLISHELLPNPFYGMNEKKIQWVENEDW
EYRTSFIVSEEQLNRDGIQLIFEGLDTYADVYLNGSLLLKADNMFVGYTLPVKSVLRKGENHLYIYFHS
PIRQTLPQYASNGFNYPADNDHHEKHLSVFSRKAPYSYGWDWGIRMVTSGVWRPVTLRFYDIATIS
DYYVRQLSLTDENARLSNELIVNQIVPQKIPAEVRVNVSLNGTTVTEVKQQVTLQPGINHITLPAEVT
NPVRWMPNGWGTPTLYDFSAQIACGDRIVAEQSHRIGLRTIRVVNEKDKDGESFYFEVNGIPMFAKG
ANYIPQDALLPNVTTERYQTLFRDMKEANMNMVRIWGGGTYENNLFYDLADENGILVWQDFMFA
CTPYPSDPTFLKRVEAEAVYNIRRLRNHASLAMWCGNNEILEALKYWGFEKKFTPEVYQGLMHGY
DKLFRELLPSTVKEFDSDRFYVHSSPYLANWGRPESWGTGDSHNWGVWYGKKPFESLDTDLPRFM
SEFGFQSFPEMKTIAAFAAPEDYQIESEVMNAHQKSSIGNSLIRTYMERDYIIPESFEDFVYVGLVLQG
QGMRHGLEAHRRNRPYCMGTLYWQLNDSWPVVSWSSIDYYGNWKALHYQAKRAFAPVLINPIQQ
NDSLSVYLISDRLDTMEQMTLEMKVVDFDGKTLGKKIQVHSLEVPANTSKCVYRAKLDGWLTPEDC
RRSFLKLILKDKSGHQVAESVHFFRKTKDLQLPPTSVSYQMKQTDGKCELTLFSSMLAKDIFIETPLQ
GARYSDNFFDLLPGERKKVIITSPRIKKGEELPVNIKHIRETYK

1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000
>Q9AGP8_1pj5_0_829
MASTPRIVIIGAGIVGTNLADELVTRGWNNITVLDQGPLNMPGGSTSHAPGLVFQTNPSKTMASFAK
YTVEKLLSLTEDGVSCFNQVGGLEVATTETRLADLKRKLGYAAAWGIEGRLLSPAECQELYPLLDGEN
ILGGLHVPSDGLASAARAVQLLIKRTESAGVTYRGSTTVTGIEQSGGRVTGVQTADGVIPADIVVSCAG
FWGAKIGAMIGMAVPLLPLAHQYVKTTPVPAQQGRNDQPNGARLPILRHQDQDLYYREHGDRYGIG
SYAHRPMPVDVDTLGAYAPETVSEHHMPSRLDFTLEDFLPAWEATKQLLPALADSEIEDGFNGIFSF
TPDGGPLLGESKELDGFYVAEAVWVTHSAGVAKAMAELLTTGRSETDLGECDITRFEDVQLTPEYVS
ETSQQNFVEIYDVLHPLQPRLSPRNLRVSPFHARHKELGAFFLEAGGWERPYWFEANAALLKEMPA
EWLPPARDAWSGMFSSPIAAAEAWKTRTAVAMYDMTPLKRLEVSGPGALKLLQELTTADLAKKPG
AVTYTLLLDHAGGVRSDITVARLSEDTFQLGANGNIDTAYFERAARHQTQSGSATDWVQVRDTTGG
TCCIGLWGPLARDLVSKVSDDDFTNDGLKYFRAKNVVIGGIPVTAMRLSYVGELGWELYTSADNGQR
LWDALWQAGQPFGVIAAGRAAFSSLRLEKGYRSWGTDMTTEHDPFEAGLGFAVKMAKESFIGKGAL
EGRTEEASARRLRCLTIDDGRSIVLGKEPVFYKEQAVGYVTSAAYGYTVAKPIAYSYLPGTVSVGDSVDI
EYFGRRITATVTEDPLYDPKMTRLRG
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000
>D6PAH1_3ahc_0_824
MTNPVIGTPWQKLDRPVSEEAIEGMDKYWRVTNYMSIGQIYLRSNPLMKEPFTRDDVKHRLVGHW
GTTPGLNFLLAHINRLIADHQQNTVFIMGPGHGGPAGTSQSYVDGTYTEYYPNITKDEAGLQKFFRQ
FSYPGGIPSHFAPETPGSIHEGGELGYALSHAYGAVMNNPSLFVPCIIGDGEAETGPLATGWQSNKLV
NPRTDGIVLPILHLNGYKIANPTILARISDEELHDFFRGMGYHPYEFVAGFDNEDHMSIHRRFAELFE
TIFDEICDIKAAAQTDDMTRPFYPMLIFRTPKGWTCPKFIDGKKTEGSWRAHQVPLASARDTEEHF

EVLKGWMESYKPEELFNADGSIKDDVTAFMPKGELRIGANPNANGGVIREDLKLPELDQYEVTGVK
EYGHGWGQVEAPRALGAYCRDIIKNNPDSFRIFGPDETASNRLNATYEVTDKQWDNGYLSGLVDEH
MAVTGQVTEQLSEHQCEGFLEAYLLTGRHGIWSSYESFVHVIDSMLNQHAKWLEATVREIPWRKPI
SSVNLLVSSHVWRQDHNGFSHQDPGVTSLLINKTFNNDHVTNIYFATDANMLLAISEKCFKSTNKIN
AIFAGKQPAPTWVTLDEARAELEAGAAEWKWASNAENNDEVQVVLASAGDVPTQELMAASDALN
KMGIKFKVVNVVDLLKLQSRENNDEALTDEEFTELFTADKPVLFAYHSYAQDVRGLIYDRPNHDNF
HVVGYKEQGSTTTPFDMVRVNDMDRYALQAAALKLIDADKYADKIDELNAFRKKAFQFAVDNGYDI
PEFTDWVYPDVKVDETQMLSATAATAGDNE
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111111111111
>Q9R1E6_3nkr_35_861
AEWDEGPPTVLSDSPWTNTSGSCKGRCFELQEVGPPDCRCDNLCKSYSSCCHDFDELCLKTARGWE
CTKDRCGEVRNEENACHCSEDCLSRGDCCTNYQVVCKGESHWVDDDCEEIRVPECPAGFVRPPLIIF
SVDGFRASYMKKGSKVMPNIEKLRSCGTHAPYMRPVYPTKTFPNLYTLATGLYPESHGIVGNSMYDP
VFDATFHLRGREKFNHRWWGGQPLWITATKQGVRAGTFFWSVSIPHERRILTILQWLSLPDNERPS
VYAFYSEQPDFSGHKYGPFGPEMTNPLREIDKTVGQLMDGLKQLKLHRCVNVIFVGDHGMEDVTCD
RTEFLSNYLTNVDDITLVPGTLGRIRPKIPNNLKYDPKAIIANLTCKKPDQHFKPYMKQHLPKRLHYA
NNRRIEDLHLLVERRWHVARKPLDVYKKPSGKCFFQGDHGFDNKVNSMQTVFVGYGPTFKYRTKV
PPFENIELYNVMCDLLGLKPAPNNGTHGSLNHLLRTNTFRPTLPEEVSRPNYPGIMYLQSDFDLGCT
CDDKNKLEELNKRLHTKGSTEERHLLYGRPAVLYRTSYDILYHTDFESGYSEIFLMPLWTSYTISKQA
EVSSIPEHLTNCVRPDVRVSPGFSQNCLAYKNDKQMSYGFLFPPYLSSSPEAKYDAFLVTNMVPMYP
AFKRVWTYFQRVLVKKYASERNGVNVISGPIFDYNYNGLRDIEDEIKQYVEGSSIPVPTHYYSIITSCL
DFTQPADKCDGPLSVSSFILPHRPDNDESCNSSEDESKWVEELMKMHTARVRDIEHLTGLDFYRKTS
RSYSEILTLKTYLHTYESEI
11111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111100000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000111
>F8UWD6_3ucp_27_842
GGSDGKDGEDGKPGPVGLDISQATTLKATLEDVKIDNGTVSVDIVLTNANGVPVTGLEQYAQINAIGL
GIAKLTPESGKGYKTPQWVSYINSVKAADPARSLANYSYTDGKDSAGNPITKEVKFTPGDAIQANIES
SCKTTCLTVVDSGVYRYTFQTNLSTLPAIEGLDLTYDPTLIHRITLELQTDGSKDAKLVNSHIDFLPSD
NFRVAKETETRTVVDLEANCIKCHSTNYSDTSSTAKPLALHGGRRIGIANCQVCHTSYSKDPETGSPL
DMGAMVHAIHKGTYAMVGYSGTAYDFSGTMAKAAAESGYPQYREGKDVSERVTLPVSIGNCQSCHS
TDDKGPVDAASFKHHKGLACASCHMSGFNPVDNSEWLTPPEGQKDRGFVGNYFHYYATPEIDGIPG
VNLVHVFQNGGCASCHAEQGEEGSAKYHLAKANATKLLRTEYAYKLENGTFDVAKGELTFTVNWHS
DVAPHQDPKVKEFWVSLTAFNGTEYTMGPRPSNGTLGRSENRISVNLAKVETNANLTAVPNGSKVT
YTLTGIKAVIGTSSVPYKQIVSIGKGFMDGKLLICANSAELDPTMDAAIDCSNTEAPIYEVIVGSNKASF
SADASNVTARSIVISEAKCANCHGEKADFSASHALTHAADKPDNSCGTCHSAVPNTAVALADGSCVAC
HNGAPAHSKKPFERGFDFKVMIHQIHADTRSVRRLTTDAATFPENPANCAACHDKGQLSLATLGNK
PAFLASTGEYSPTVAACASCHATTATDSAVIGHFETNGGVYNAAAGTYTPGSETCATCHGEGKSFGVD
KVHPVKY
11111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>P39185_3o5a_29_830
ANFVTDSEVTKLKWSKAPCRFCGTGCGVTVAVKDNKVVATQGDPQAEVNKGLNCVKGYFLSKIMYG
QDRLTRPLMRMKNGKYDKNGDFAPVTWDQAFDEMERQFKRVLKEKGPTAVGMFGSGQWTVWEG
YAAAKLYKAGFRSNNIDPNARHCMASAAAGFMRTFGMDEPMGCYDDFEAADAFVLWGSNMAEMH
PILWTRVTDRRLSHPKTRVVVLSTFTHRCFDLADIGIIFKPQTDLAMLNYIANYIIRNNKVNKDFVNK
HTVFKEGVTDIGYGLRPDHPLQKAAKNASDPGAAKVITFDEFAKFVSKYDADYVSKLSAVPKAKLDQ
LAELYADPNIKVMSLWTMGFNQHTRGTWANNMVYNLHLLTGKIATPGNSPFSLTGQPSACGTAREV
GTFSHRLPADMVVTNPKHREEAERIWKLPPGTIPDKPGYDAVLQNRMLKDGKLNAYWVQVNNNM
QAAANLMEEGLPGYRNPANFIVVSDAYPTVTALAADLVLPSAMWVEKEGAYGNAERRTQFWHQLV
DAPGEARSDLWQLVEFAKRFKVEEVWPPELIAKKPEYKGKTLYDVLYRNGQVDKFPLKDVNAEYHN
AEAKAFGFYLQKGLFEEYATFGRGHGHDLAPFDAYHEARGLRWPVVNGKETRWRYREGSDPYVKA
GTGFQFYGNPDGKAVIFALPYEPPAESPDKEYPYWLVTGRVLEHWHSGSMTRRVPELYRSFPNAVVF
MHPEDAKALGLRRGVEVEVVSRRGRMRSRIETRGRDAPPRGLVFVPWFDASQLINKVTLDATCPISL
QTDFKKCAVKIVKV
11111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q57366_1eu1_42_821
EGLANGEVMSGCHWGVFKARVENGRAVAFEPWDKDPAPSHQLPGVLDSIYSPTRIKYPMVRREFLE
KGVNADRSTRGNGDFVRVTWDEALDLVARELKRVQESYGPTGTFGGSYGWKSPGRLHNCQVLMRR
ALNLAGGFVNSSGDYSTAAAQIIMPHVMGTLEVYEQQTAWPVVVENTDLMVFWAADPMKTNEIG
WVIPDHGAYAGMKALKEKGTRVICINPVRTETADYFGADVVSPRPQTDVALMLGMAHTLYSEDLHD
KDFLENCTTGFDLFAAYLTGESDGTPKTAEWAAEICGLPAEQIRELARSFVAGRTMLAAGWSIQRMH
HGEQAHWMLVTLASMIGQIGLPGGGFGLSYHYSNGGSPTSDGPALGGISDGGKAVEGAAWLSESGAT
SIPCARVVDMLLNPGGEFQFNGATATYPDVKLAYWAGGNPFAHHQDRNRMLKAWEKLETFIVQDF
QWTATARHADIVLPATTSYERNDIESVGDYSNRAILAMKKVVDPLYEARSDYDIFAALAERLGKGAEF
TEGRDEMGWISSFYEAAVKQAEFKNVAMPSFEDFWSEGIVEFPITEGANFVRYADFREDPLFNPLGT
PSGLIEIYSKNIEKMGYDDCPAHPTWMEPAERLGGAGAKYPLHVVASHPKSRLHSQLNGTSLRDLYA
VAGHEPCLINPADAAARGIADGDVLRVFNDRGQILVGAKVSDAVMPGAIQIYEGGWYDPLDPSEEGT
LDKYGDVNVLSLDVGTSKLAQGNCGQTILADVEKYAGAPVTVTVFDTPKGA
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011100111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>P84141_1rwg_0_756
EAEPGAAEFAALRNRWVDQITGRNVIQAGDPDFAKAITALNNKAADSLAKLDVKKGRTSVFTDLSL
AKDAEMVTTYTRLSQLATAWATPTAAVFGDAAVLAAIKAGLADANTLCYNDRKEEVGNWWSWEIG
VPRALADAMVLLHAELSAAERTAYCAAIDHFVPDPWLQFPPKRGKITSVGANRVDLCQGIIIRSLAGE
DPTKLNHAVAGLSQVWQYVTSGDGIFRDGSFIQHSTTPYTGSYGVVLLTGLSKLFSLLGGTAFEVSDP
TRSIFFDAVEGSFAPVMINGAMADAVRGRSISREANTGYDLGASAIEAILLLARAMDPATAARWRGLC
AGWIARDTYRPILNSASVPRTALVKQLEATGVAPVAEATGHKLFPAMDRTMHRGPGWALSLALSSN
RIAWYECGNGENNRGYHTGSGMTYFYTSDLGQYDDAFWATANYNRLPGITVDTTPLPDKVEGQWG
AAVPADEWSGATALGEVAAVGQHLVGPGRTGLTARKSWFVSGDVTVCLGADISTASGAKVETIVDHR
NLHQGSNTLTTAAGTIAGTAGTVEVLGDGRWVHLEGFGGYAMLDDSPLHVLRETRSGSWSGVNING

SATVQQRNFATLYVNHGVGPVAGSYAYMVAPGASVDLTRKLLEGNKYSVIRNDATAQSVEFKTAKTTA
ATFWKPGMAGDLGASGPACVVFSRHGNELSLAVSEPTQKAAGLTLTLPEGTWSSVLEGAGTLGTDA
DGRSTLTLDTTGLSGKTKLIKLKR
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>O95487_3eh1_517_1267
QPESLRPVNLTQERNILPMTPVWAPVPNLNADLKKLNCSPDSFRCTLTNIPQTQALLNKAKLPLGLL
LHPFRDLTQLPVITSNTIVRCRSCRTYINPFVSFIDQRRWKCNLCYRVNDVPEEFMYNPLTRSYGEPH
KRPEVQNSTVEFIASSDYMLRPPQPAVYLFVLDVSHNAVEAGYLTILCQSLLENLDKLPGDSRTRIGF
MTFDSTIHFYNLQEGLSQPQMLIVSDIDDVFLPTPDSLLVNLYESKELIKDLLNALPNMFTNTRETHS
ALGPALQAAFKLMSPTGGRVSVFQTQLPSLGAGLLQSREDPNQRSSTKVVQHLGPATDFYKKLALDC
SGQQTAVDLFLLSSQYSDLASLACMSKYSAGCIYYYPSFHYTHNPSQAEKLQKDLKRYLTRKIGFEAV
MRIRCTKGLSMHTFHGNFFVRSTDLLSLANINPDAGFAVQLSIEESLTDTSLVCFQTALLYTSSKGERR
IRVHTLCLPVVSSLADVYAGVDVQAAICLLANMAVDRSVSSSLSDARDALVNAVVDSLSAYGSTVSNL
QHSALMAPSSLKLFPLYVLALLKQKAFRTGTSTRLDDRVYAMCQIKSQPLVHLMKMIHPNLYRIDRL
TDEGAVHVNDRIVPQPPLQKLSAEKLTREGAFLMDCGSVFYIWVGKGCDNNFIEDVLGYTNFASIPQ
KMTHLPELDTLSSERARSFITWLRDSRPLSPILHIVKDESPAKAEFFQHLIEDRTEAAFSYYEFLLHV
QQQICK
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000111111110000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000111110000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>P22033_2xij_11_749
SPHYLRQVKESSGSRLIQQRLLHQQQPLHPEWAALAKKQLKGKNPEDLIWHTPEGISIKPLYSKRDT
MDLPEELPGVKPFTRGPYPTMYTFRPWTIRQYAGFSTVEESNKFYKDNIKAGQQGLSVAFDLATHR
GYDSDNPRVRGDVGMAGVAIDTVEDTKILFDGIPLEKMSVSMTMNGAVIPVLANFIVTGEEQGVPKE
KLTGTIQNDILKEFMVRNTYIFPPEPSMKIIADIFEYTAKHMPKFNSISISGYHMQEAGADAILELAYT
LADGLEYSRTGLQAGLTIDEFAPRLSFFWGIGMNFYMEIAKMRAGRRLWAHLIEKMFQPKNSKSLLL

RAHCQTSGWSLTEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLPTVKSARIARNTQIIIQEE
SGIPKVADPWGGSYMMECLTNDVYDAALKLINEIEEMGGMAKAVAEGIPKLRIEECAARRQARIDSG
SEVIVGVNKYQLEKEDAVEVLAIDNTSVRNRQIEKLKKIKSSRDQALAERCLAALTECAASGDGNILA
LAVDASRARCTVGEITDALKKVFGEHKANDRMVSGAYRQEFGESKEITSAIKRVHKFMEREGRRPRL
LVAKMGQDGHDRGAKVIATGFADLGFDVDIGPLFQTPREVAQQAVDADVHAVGISTLAAGHKTLVPE
LIKELNSLGRPDILVMCGGVIPPQDYEFLFEVGVSNVFGPGTRIPKAAVQVLDDIEKCLEKKQQSV
11111111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>Q4QHU7_2xe4_0_730
MSSDSSVAASAQPPIAAKKPHRVTFGYVEGEDRGPNPMNPPRYREDPYFWMRDDDRKDPAVIEHL
NKEKVYFQARSADIAQLRDDIYAEHISHINEDDMSAPYVYGKYRYYTREVKGKPYKIYCRVFTDKEPG
DVAAEEVIIDVNQVAEGKAFCDVMEVKPAPPEHDLVAFSVDMSGNEVYTIEFKRISDPSQTIADKVSG
TNGEIVWGPDHTSLFYVTKDETLRENKVWRHVMGKLQSEDVCLYEEHNPLFSAFMYKAADTNTLC
IGSQSPETAEVHLLDLRKGNAHNTLEIVRPREKGVRYDVQMHGTSHLVILTNEGGAVNHKLLIAPRG
QPSDWSHVLVDHSEDVFMESIAVRSNYLVVAGRRAGLTRIWTMMADSQDGVFKAGTGLREVVMEE
PIFTVHLVESQMLEYEEPTFRMEYSSLATPNTWFDVSPQDHSRTAVKVREVGGGFDAANYKVERRF
ATAPDQTKIPLSVVYHKDLDMSQPQPCMLYGYGSYGLSMDPQFSIQHLPYCDRGMIFAIAHIRGGSEL
GRAWYEIGAKYLTKRNTFSDFIAAAEFLVNAKLTTPSQLACEGRSAGGLLMGAVLNMRPDLFKVALA
GVPFVDVMTTMCDPSIPLTTGEWEEWGNPNEYKYYDYMLSYSPMDNVRAQEYPNIMVQCGLHDP
RVAYWEPAKWVSKLRECKTDNNEILLNIDMESGHFSAKDRYKFWKESAIQQAFVCKHLKSTVRLLV
RR
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>Q54873_1ojo_284_1008
ASVKDAYTDRLDDWNGIIAGNQYYDSKNEQMAKLNQELEGKVADSLSSISSQADRTYLWEKFSNYK
TSANLTATYRKLEEMAKQVTNPSSRYYQDETVVRTVRDSMEWMHKHVYNSEKSIVGNWWDYEIGT

PRAINNTLSLMKEYFSDEEIKKYTDVIEKFVPDPEHFRKTTDNPFKALGGNLVDMGRVKVIAGLLRK
DDQEISSTIRSIEQVFKLVDQGEGFYQDGSYIDHTNVAYTGAYGNVLIDGLSQLLPVIQKTKNPIDKDK
MQTMYHWIDKSFAPLLVNGELMDMSRGRSISRANSEGHVAAVEVLRGIHRIADMSEGETKQCLQSL
VKTIVQSDSYYDVFKNLKTYKDISLMQSLLSDAGVASVPRPSYLSAFNKMDKTAMYNAEKGFGFGLS
LFSSRTLNYEHMNKENKRGWYTSDGMFYLYNGDLSHYSDGYWPTVNPYKMPGTTETDAKRADSD
TGKVLPSAFVGTSKLDDANATATMDFTNWNQTLTAHKSWFMLKDKIAFLGSNIQNTSTDTAATTID
QRKLESGNPYKVYVNDKEASLTEQEKDYPETQSVFLESFDSKKNIGYFFFKKSSISMSKALQKGAWK
DINEGQSDKEVENEFLTISQAHKQNRDSYGYMLIPNVDRATFNQMIKELESSLIENNETLQSVYDAK
QGVWGIVKYDDSVSTISNQFQVLKRGVYTIRKEGDEYKIAYYNPETQESAPDQEVFKKLEQ
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000000000001
>P81186_2nap_32_754
ADNRPEKWVKGVCRYCGTGCGVLVGVKDGKAVAIQGDPNNHNAGLLCLKGSLLIPVLNSKERVTQPL
VRRHKGGKLEPVSWDEALDLMASRFRSSIDMYGPNSVAWYGSGQCLTEESYVANKIFKGGFGTNNV
DGNPRLCMASAVGGYVTSFGKDEPMGTYADIDQATCFFIIGSNTSEAHPVLFRRIARRKQVEPGVKIIV
ADPRRTNTSRIADMHVAFRPGTDLAFMHSMAWVIINEELDNPRFWQRYVNFMDAEGKPSDFEGY
KAFLENYRPEKVAEICRVPVEQIYGAARAFAESAATMSLWCMGINQRVQGVFANNLIHNLHLITGQIC
RPGATSFSLTGQPNACGGVRDGGALSHLLPAGRAIPNAKHRAEMEKLWGLPEGRIAPEPGYHTVALF
EALGRGDVKCMIICETNPAHTLPNLNKVHKAMSHPESFIVCIEAFPDAVTLEYADLVLPPAFWCERD
GVYGCGERRYSLTEKAVDPPGQCRPTVNTLVEFARRAGVDPQLVNFRNAEDVWNEWRMVSKGTTY
DFWGMTRERLRKESGLIWPCPSEDHPGTSLRYVRGQDPCVPADHPDRFFFYGKPDGRAVIWMRPA
KGAAEEPDAEYPLYLTSMRVIDHWHTATMTGKVPELQKANPIAFVEINEEDAARTGIKHGDSVIVET
RRDAMELPARVSDVCRPGLIAVPFFDPKKLVNKLFLDATDPVSREPEYKICAARVRKA
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>O15294_3pe4_322_1040

CPTHADSLNNLANIKREQGNIEEAVRLYRKALEVFPEFAAAHSNLASVLQQQGKLQEALMHYKEAIR
ISPTFADAYSNMGNTLKEMQDVQGALQCYTRAIQINPAFADAHSNLASIHKDSGNIPEAIASYRTALK
LKPDFPDAYCNLAHCLQIVCDWTDYDERMKKLVSIVADQLEKNRLPSVHPHHSMLYPLSHGFRKAI
AERHGNLCLDKINVLHKPPYEHPKDLKLSDGRLRVGYVSSDFGNHPTSHLMQSIPGMHNPDKFEVF
CYALSPDDGTNFRVKVMAEANHFIDLSQIPCNGKAADRIHQDGIHILVNMNGYTKGARNELFALRPA
PIQAMWLGYPGTSGALFMDYIITDQETSPAEVAEQYSEKLAYMPHTFFIGDHANMFPHLKKKAVIDF
KSNGHIYDNRIVLNGIDLKAFLDSLPDVKIVKMKCPDGGDNADSSNTALNMPVIPMNTIAEAVIEMI
NRGQIQITINGFSISNGLATTQINNKAATGEEVPRTIIVTTRSQYGLPEDAIVYCNFNQLYKIDPSTLQM
WANILKRVPNSVLWLLRFPAVGEPNIQQYAQNMGLPQNRIIFSPVAPKEEHVRRGQLADVCLDTPLC
NGHTTGMDVLWAGTPMVTMPGETLASRVAASQLTCLGCLELIAKNRQEYEDIAVKLGTDLEYLKKV
RGKVWKQRISSPLFNTKQYTMELERLYLQMWEHYAAGNKPDHMIKPVE
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000011111111111111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000111
>Q68XJ3_4hvt_18_719
AMEDNNKQIFNPKETKFLEEAEGVEALEWAKERTSKTEKALQAMQEYKQIKKEIETIFYDQRKTPY
GVIRKGYVYNFWMDDKNPQGLWRRTLVDNYSKDKPNWEVLIDFDKLSKKIGKKVAYRGVSNCFQN
PNRYLISMSFGGKDEMFFREWDLEKKDFVKNGFEPITNSGKLLEGKFTYPTWINKDTIIFNLVLHKN
EITSSLYPNSLYIWKRGESIEKAKKLFEVPKEYIYVSAGKLLSDTISSSLIFISANKDFYNYDNYILDTKY
KNLKLQKINMPSDATLQGSFKEYVFWLLRSDWKFKSHNIKAGSLVALHFTDLLKTESDKTSLKILFT
PTANEVFNFISTTKDRVFLATYDNVVAKVVTFTLENEQWTKPVVLKLPYQNAIFGMSSYEEEEEALI
TIENSIVPPTIYLWVKTHELKIIRKALYSFDSENYVLEQKEATSFDGVKIPYFLVYKKGIKFDGKNPTLL
EAYGGFQVINAPYFSRIKNEVWVKNAGVSVLANIRGGGEFGPEWHKSAQGIKRQTAFNDFFAVSEELI
KQNITSPEYLGIKGGSNGGLLVSVAMTQRPELFGAVACEVPILDMIRYKEFGAGHSWVTEYGDPEIPN
DLLHIKKYAPLENLSLTQKYPTVLITDSVLDQRVHPWHGRIFEYVLAQNPNTKTYFLESKDSGHGSG
SDLKESANYFINLYTFFANALKLKIN
11111111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000001

>P04397_1z45_0_698
MTAQLQSESTSKIVLVTGGAGYIGSHTVVELIENGYDCVVADNLSNSTYDSVARLEVLTKHHIPFYEVD
LCDRKGLEKVFKEYKIDSVIHFAGLKAVGESTQIPLRYYHNNILGTVVLLELMQQYNVSKFVFSSSATV
YGDATRFPNMIPIPEECPLGPTNPYGHTKYAIENILNDLYNSDKKSWKFAILRYFNPIGAHPSGLIGED
PLGIPNNLLPYMAQVAVGRREKLYIFGDDYDSRDGTPIRDYIHVVDLAKGHIAALQYLEAYNENEGLC
REWNLGSGKGSTVFEVYHAFCKASGIDLPYKVTGRRAGDVLNLTAKPDRAKRELKWQTELQVEDSC
KDLWKWTTENPFGYQLRGVEARFSAEDMRYDARFVTIGAGTRFQATFANLGASIVDLKVNGQSVVL
GYENEEGYLNPDSAYIGATIGRYANRISKGKFSLCNKDYQLTVNNGVNANHSSIGSFHRKRFLGPIIQN
PSKDVFTAEYMLIDNEKDTEFPGDLLVTIQYTVNVAQKSLEMVYKGKLTAGEATPINLTNHSYFNLN
KPYGDTIEGTEIMVRSKKSVDVDKNMIPTGNIVDREIATFNSTKPTVLGPKNPQFDCCFVVDENAKP
SQINTLNNELTLIVKAFHPDSNITLEVLSTEPTYQFYTGDFLSAGYEARQGFAIEPGRYIDAINQENWK
DCVTLKNGETYGSKIVYRFS
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111000000000000000000000000000000000000000000000
00000000000000000000011111111100000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000
>Q89YS0_4ak1_28_725
SDTETTDSTKFTIYYTGMTDIGPSMTGVISSPTYKGGTPYDFAITRITLDGEPFSDSIFAIDSETGKITL
NSTSNTPVGLYKLSVACYSNNNRYEYTDIVEINMMKPVPDGIKTDPEKLQVEYADIIDTESSNELPTS
QIRTEGNHISISNYTIASAMWNGVAVESPEDYFAVSDKGEISIIKGNQNIQPGKYILSFKLTTAATGEDP
EKGIFENALEINVTSRPLSLIYTPDEGKIEEEGERSPETTFQSNIPALKGSAEGLVYSISSVSPNTDKITI
DPTTGVLSVAAHHGFKDGEKYQISVKAINEFSPEGVVFENVFTLNTVEFIEPIANFGYADVNDVQAVE
IDINKNENFKGDEVKYEFVNLPTDLQGELALDLDGNIAIKKGNKIPVGQYTVQVMATNTKGSETATF
TLTITANPNYFTYFRYGNNLGLTPIENYADQFRIEAGGKLNSVKPVPTATDAKDGLSSLKWEVELKHN
PNNTKATINESTGQITITGLKQGQCGMVMVTATAGEGKTAVSVKQPVFFHFSMISDSNVQLEYTPFVF
QVNPARGGESIAPSLGAGIDKSTFRLDYRRDFFYYNIAGPDSHISGALAQKVDNFLSEMWNSYDATA
GTSRKPMSYFENTTNLSKALGYIDQTDFKVHINPNLWRNKDGYANGAMIGQITYDVTGKDPQAATS
GARVSPIFIWFDTKF
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001111111111111111111111111110
00000000000000001111111111111111111111111110000000000000000000000000000
00000000110011000000000000000000000000000011111111111111111000000000000
00000000000000011100001111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000

>P12528_2xc1_1_666
TDITANVVVSNPRPIFTESRSFKAVANGKIYIGQIDTDPVNPANQIPVYIENEDGSHVQITQPLIINAAG
KIVYNGQLVKIVTVQGHSMAIYDANGSQVDYIANVLKYDPDQYSIEADKKFKYSVKLSDYPTLQDAAS
AAVDGLLIDRDYNFYGGETVDFGGKVLTIECKAKFIGDGNLIFTKLGKGSRIAGVFMESTTTPWVIKP
WTDDNQWLTDAAAVVATLKQSKTDGYQPTVSDYVKFPGIETLLPPNAKGQNITSTLEIRECIGVEVH
RASGLMAGFLFRGCHFCKMVDANNPSGGKDGIITFENLSGDWGKGNYVIGGRTSYGSVSSAQFLRNN
GGFERDGGVIGFTSYRAGESGVKTWQGTVGSTTSRNYNLQFRDSVVIYPVWDGFDLGADTDMNPEL
DRPGDYPITQYPLHQLPLNHLIDNLLVRGALGVGFGMDGKGMYVSNITVEDCAGSGAYLLTHESVFT
NIAIIDTNTKDFQANQIYISGACRVNGLRLIGIRSTDGQGLTIDAPNSTVSGITGMVDPSRINVANLAEE
GLGNIRANSFGYDSAAIKLRIHKLSKTLDSGALYSHINGGAGSGSAYTQLTAISGSTPDAVSLKVNHKD
CRGAEIPFVPDIASDDFIKDSSCFLPYWENNSTSLKALVKKPNGELVRLTLATL
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>P15245_1pn0_0_664
MTKYSESYCDVLIVGAGPAGLMAARVLSEYVRQKPDLKVRIIDKRSTKVYNGQADGLQCRTLESLKN
LGLADKILSEANDMSTIALYNPDENGHIRRTDRIPDTLPGISRYHQVVLHQGRIERHILDSIAEISDTRI
KVERPLIPEKMEIDSSKAEDPEAYPVTMTLRYMSDHESTPLQFGHKTENSLFHSNLQTQEEEDANY
RLPEGKEAGEIETVHCKYVIGCDGGHSWVRRTLGFEMIGEQTDYIWGVLDAVPASNFPDIRSPCAIHS
AESGSIMIIPRENNLVRFYVQLQARAEKGGRVDRTKFTPEVVIANAKKIFHPYTFDVQQLDWFTAYHI
GQRVTEKFSKDERVFIAGDACHTHSPKAGQGMNTSMMDTYNLGWKLGLVLTGRAKRDILKTYEEE
RHAFAQALIDFDHQFSRLFSGRPAKDVADEMGVSMDVFKEAFVKGNEFASGTAINYDENLVTDKKSS
KQELAKNCVVGTRFKSQPVVRHSEGLWMHFGDRLVTDGRFRIIVFAGKATDATQMSRIKKFSAYLDS
ENSVISLYTPKVSDRNSRIDVITIHSCHRDDIEMHDFPAPALHPKWQYDFIYADCDSWHHPHPKSYQ
AWGVDETKGAVVVVRPDGYTSLVTDLEGTAEIDRYFSGILVEPKEKSGAQTEADWTKSTA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011
>P0CS93_1k3i_24_679
AVGTGIPEGSLQFLSLRASAPIGSAISRNNWAVTCDSAQSGNECNKAIDGNKDTFWHTFYGANGDPK

PPHTYTIDMKTTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSN
FETRPARYVRLVAITEANGQPWTSIAEINVFQASSYTAPQPGLGRWGPTIDLPIVPAAAAIEPTSGRVL
MWSSYRNDAFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHDMFCPGISMDGNGQIVVTGGNDAKKT
SLYDSSSDSWIPGPDMQVARGYQSSATMSDGRVFTIGGSWSGGVFEKNGEVYSPSSKTWTSLPNAKV
NPMLTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMNWYYTSGSGDVKSAGKRQSNRGVAPDA
MCGNAVMYDAVKGKILTFGGSPDYQDSDATTNAHIITLGEPGTSPNTVFASNGLYFARTFHTSVVLPD
GSTFITGGQRRGIPFEDSTPVFTPEIYVPEQDTFYKQNPNSIVRVYHSISLLLPDGRVFNGGGGLCGDC
TTNHFDAQIFTPNYLYNSNGNLATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQ
RRIPLTLTNNGGNSYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>Q8P5I2_2wpg_0_636
MIASSPIDAAALRASVAAALDPSTAVATLARFDTHAPRLLDALSTLYGDHADYVTWLPQWLSALGVV
AQARPAALRHLDDSRAPGWFGQQDMLGYSAYVDRFAGTLRGVAERVPYLQELGVRYLHLLPFLRAR
AGDNDGGFAVSDYGQVEPALGSNDDLVALTARLRAANISLCADFVLNHTADDHAWAQAARAGDTRY
LDYYHHFADRNAPDQYDTTLVQVFPQTAPGNFTWVDETRQWMWTTFYPYQWDLNWSNPAVFGE
MALAMLELANLGVEAFRLDSTAYLWKRPGTNCMNQPEAHTILVALRAVADIVAPSVVMKAEAIVPM
AELPPYFGSGVQRGHECHLAYHSTLMAAGWSALALQRGDILQDVIAHSPPLPPNCAWLSYVRCHDD
IGWNVLQHEAAGTAAQPPFSLREVAQFYANAVPGSYARGESFQSSGDGVHGTNGMSAALVGVQAAH
EHADAAAAARAVDRLVLLYAVSLAMPGVPLIYMGDELALPNDTAYLDDAQRRHEGRWLHRPAMAW
ELAAQRHDASTLAGTVYTRLRALIRLRAGLPALAATQSLGSVALGDARLFALTRGDSFLAVHNFSDVP
LPVDLTQTGHALWAVLDTDGTGDAPEPHTELLLPAYGVRWLQRR
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>Q54443_3vmp_99_731
QKNGNMINLTTDKAVYQAGEAVHLNLTLNNTTSLAQNITATAEVYSLENKLKTLQYTKYLLPNESYT
TQKGEFVIPANSLANNRGYLLKVNISDSQNNILEQGNRAIAVEDDWRTFPRYAAIGGSQKDNNSVLT
KNLPDYYRELEQMKNMNINSYFFYDVYKSATNPFPNVPKFDQSWNWWSHSQVETDAVKALVNRV
HQTGAVAMLYNMILAQNANETAVLPDTEYIYNYETGGYGQNGQVMTYSIDDKPLQYYYNPLSKSWQ

NYISNAMAQAMKNGGFDGWQGDTIGDNRVLSHNQKDSRDIAHSFMLSDVYAEFLNKMKEKLPQYY
LTLNDVNGENISKLANSKQDVIYNELWPFGTSALGNRPQESYGDLKARVDQVRQATGKSLIVGAYME
EPKFDDNRVPLNGAARDVLASATYQTDAVLLTTAAIAAAGGYHMSLAALANPNDGGGVGVLETAYY
PTQSLKVSKELNRKNYHYQQFITAYENLLRDKVENDSAEPQTFTANGRQLSQDALGINGDQVWTYA
KKGNDFRTIQLLNLMGITSDWKNEDGYENNKTPDEQTNLLVTYPLTGVSMAEADRIAKQVYLTSPD
DWLQSSMISLATQIKTNENGDPVLYIQVPRLTLWDMIYI
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000
>B5QNF0_4iuw_0_631
MTLPRIQDDLYLAVNGEWQAKTPIPPDKSVVSADSNLTDDIRQKLVADLSTMTKTAKTLPLQYAARL
FAKANDQTRRQQLGIEPVRDRISFLMALTTLDQFRSAMPKLVADQYVLPISPYVDADMHDAEHNILN
LGGPDTILPDAAMYQHEDAENAADLAAWSQMAAAMLAAVGFSQTDQTAYVEAAKRFDRRLADYVP
ANVDLAVDSTYDNPLSWQAFEDAAGYLGIPQAFATYMPQTPAKVNAVVPAYLPHLSKLLTPDNYSE
WHAWMVINELLTCATYLSDDLRQLAGQYDRFLAGQPEASSWTKHAFGIANEYFDDVIGQYYGQTYF
GADAKADVTAMVKQILAQYRVQLENNTWLSPATKQKAMRKLATMQVKMGYPERLFSLYDHLSVDV
DDDLLTAILKLSAQTQAFWFKQLGQTVDRNQWNMPGHLVNASYDPLKNDITFPAGILQPPYYSLKW
TRAENLGGTGATIGHEISHSFDNNGALYDEYGNLHNWWTPADKQAFDQLVKAMAAQFDGRDYEGV
KVNGTLTVSENMADNAGMDVALALLGDQPDVKDLQAFFITYARSWATKMRPERAKTVLRQDVHAP
ATLRVNVPVQNFPAWYQAFNVQPQDGMYRQPQKRLTIWHQ
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000
>B3TLD6_4jaw_40_662
GYSATAPVNLTRPATVPSMDGWTDGTGAWTLGEGTRVVSSDALAARAQSLASELTKFTDVDIKAAT
GSATGKDISLTLDASKKAELGDEGFKLNIGSKGLEVIGATDIGVFYGTRSVSQMLRQGQLTLPAGTVAT
KPKYKERGATLCACQINISTDWIDRFLSDMADLRLNYVLLEMKLKPEEDNTKKAATWSYYTRDDV
KKFVKKANNYGIDVIPEINSPGHMNVWLENYPEYQLADNSGRKDPNKLDISNPEAVKFYKTLIDEY
DGVFTTKYWHMGADEYMIGTSFDNYSKLKTFAEKQYGAGATPNDAFTGFINDIDKYVKAKGKQLRI
WNDGIVNTKNVSLNKDIVIEYWYGAGRKPQELVQDGYTLMNATQALYWSRSAQVYKVNAARLYNN
NWNVGTFDGGRQIDKNYDKLTGAKVSIWPDSSYFQTENEVEKEIFDGMRFISQMTWSDSRPWATW
NDMKADIDKIGYPLDIREYDYTPVDAGIYDIPQLKSISKGPWELITTPDGYYQMKDTVSGKCLALFTG

SKHLDVVTQVGARPELRNCADVSVGQDQRNTANERNTQKWQIRADKDGKYTISPALTQQRLAIATG
NEQNIDLETHRPAAGTVAQFPADLVSD
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>Q9NQW7_3ctz_0_622
MPPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPCDCRRAFVSGFDGSAGTAIITEEH
AAMWTDGRYFLQAAKQMDSNWTLMKMGLKDTPTQEDWLVSVLPEGSRVGVDPLIIPTDYWKKM
AKVLRSAGHHLIPVKENLVDKIWTDRPERPCKPLLTLGLDYTGISWKDKVADLRLKMAERNVMWF
VVTALDEIAWLFNLRGSDVEHNPVFFSYAIIGLETIMLFIDGDRIDAPSVKEHLLLDLGLEAEYRIQVH
PYKSILSELKALCADLSPREKVWVSDKASYAVSETIPKDHRCCMPYTPICIAKAVKNSAESEGMRRAH
IKDAVALCELFNWLEKEVPKGGVTEISAADKAEEFRRQQADFVDLSFPTISSTGPNGAIIHYAPVPET
NRTLSLDEVYLIDSGAQYKDGTTDVTRTMHFGTPTAYEKECFTYVLKGHIAVSAAVFPTGTKGHLLD
SFARSALWDSGLDYLHGTGHGVGSFLNVHEGPCGISYKTFSDEPLEAGMIVTDEPGYYEDGAFGIRIE
NVVLVVPVKTKYNFNNRGSLTFEPLTLVPIQTKMIDVDSLTDKECDWLNNYHLTCRDVIGKELQKQG
RQEALEWLIRETQPISKQH
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111
>P0CE12_3g06_165_782
PAEYDAVWSAWRRAAPAEESRGRAAVVQKMRACLNNGNAVLNVGESGLTTLPDCLPAHITTLVIPD
NNLTSLPALPPELRTLEVSGNQLTSLPVLPPGLLELSIFSNPLTHLPALPSGLCKLWIFGNQLTSLPVLP
PGLQELSVSDNQLASLPALPSELCKLWAYNNQLTSLPMLPSGLQELSVSDNQLASLPTLPSELYKLWA
YNNRLTSLPALPSGLKELIVSGNRLTSLPVLPSELKELMVSGNRLTSLPMLPSGLLSLSVYRNQLTRLP
ESLIHLSSETTVNLEGNPLSERTLQALREITSAPGYSGPIIRFDMAGASAPRETRALHLAAADWLVPA
REGEPAPADRWHMFGQEDNADAFSLFLDRLSETENFIKDAGFKAQISSWLAQLAEDEALRANTFA
MATEATSSCEDRVTFFLHQMKNVQLVHNAEKGQYDNDLAALVATGREMFRLGKLEQIAREKVRTLA
LVDEIEVWLAYQNKLKKSLGLTSVTSEMRFFDVSGVTVTDLQDAELQVKAAEKSEFREWILQWGPL
HRVLERKAPERVNALREKQISDYEETYRMLSDTELRPSGLVGNTDAERTIGARAMESAKKTFLDGLR
PLVEEMLGSYLNV
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000111100000000000000111111110000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000
>P94255_2x0q_0_617
MSRTTPPHPAEIVAHLQPEIWNKVNRLLVRKAISEYAHEWLLEPQRLGPGETPGFERFRLTLADGAQ
YDFDAQVMAMRHWRIPPESIVKTVAGVPAPLDALQFVIEIRDKLGLPVDRLPIYMDEITSTLHGSAYK
HGRTTLGAAALARADYQTIETSMIEGHPSFVANNGRLGFDAEDYHGYAPEAATPVRLMWLAVHKD
NAHFSCLSDMDYDSLMSEELGESAVTDFAARLREQGLHPADYYFMPAHPWQWFNKLSLAFAPYVA
QRKIVCLGYGEEQYLAQQSIRTFFNISRPGKRYVKTSLSILNMGFMRGLSPYYMAGTPAINEYIHDLIS
ADPWLRANGFRILREVASMGFRNYYYEAAIDTDTPYKKMFSALWRENPLTLIAPGQNLMTMAALL
HVDPQGRALLPELIQASGLDAGTWLERYVDAYLTPLIHCFYAHDLVFMPHGENVILVIQDGVPVRAF
MKDIAEESSILNPQVRLPQAAQRLAADVPEAYKLLTIFVDVFEGYFRHLTQILVETELMPEHDFWRLV
AGRIAAYQQAHPQRLDKYRRYDLFAPDMIHSCLNRLQLANNLQMVNLADPIGSFQMAPNLPNPIAC
FRPSWLGSGEALQTLTAA
111111100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000001111111111111111110000000000000111111111111
>P75906_4f9d_41_654
QPWPHNGFVAISWHNVEDEAADQRFMSVRTSALREQFAWLRENGYQPVSIAQIREAHRGGKPLPE
KAVVLTFDDGYQSFYTRVFPILQAFQWPAVWAPVGSWVDTPADKQVKFGDELVDREYFATWQQVR
EVARSRLVELASHTWNSHYGIQANATGSLLPVYVNRAYFTDHARYETAAEYRERIRLDAVKMTEYLR
TKVEVNPHVFVWPYGEANGIAIEELKKLGYDMFFTLESGLANASQLDSIPRVLIANNPSLKEFAQQII
TVQEKSPQRIMHIDLDYVYDENLQQMDRNIDVLIQRVKDMQISTVYLQAFADPDGDGLVKEVWFPN
RLLPMKADIFSRVAWQLRTRSGVNIYAWMPVLSWDLDPTLTRVKYLPTGEKKAQIHPEQYHRLSPF
DDRVRAQVGMLYEDLAGHAAFDGILFHDDALLSDYEDASAPAITAYQQAGFSGSLSEIRQNPEQFKQ
WARFKSRALTDFTLELSARVKAIRGPHIKTARNIFALPVIQPESEAWFAQNYADFLKSYDWTAIMAM
PYLEGVAEKSADQWLIQLTNQIKNIPQAKDKSILELQAQNWQKNGQHQAISSQQLAHWMSLLQLNG
VKNYGYYPDNFLHNQPE
100000000000000000010000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
111111111110000000000000000000000000111111111
>P11439_1ikp_25_637
AEEAFDLWNECAKACVLDLKDGVRSSRMSVDPAIADTNGQGVLHYSMVLEGGNDALKLAIDNALSI
TSDGLTIRLEGGVEPNKPVRYSYTRQARGSWSLNWLVPIGHEKPSNIKVFIHELNAGNQLSHMSPIYT
IEMGDELLAKLARDATFFVRAHESNEMQPTLAISHAGVSVVMAQAQPRREKRWSEWASGKVLCLL
DPLDGVYNYLAQQRCNLDDTWEGKIYRVLAGNPAKHDLDIKPTVISHRLHFPEGGSLAALTAHQAC
HLPLETFTRHRQPRGWEQLEQCGYPVQRLVALYLAARLSWNQVDQVIRNALASPGSGGDLGEAIRE
QPEQARLALTLAAAESERFVRQGTGNDEAGAASADVVSLTCPVAAGECAGPADSGDALLERNYPTGA
EFLGDGGDISFSTRGTQNWTVERLLQAHRQLEERGYVFVGYHGTFLEAAQSIVFGGVRARSQDLDAI
WRGFYIAGDPALAYGYAQDQEPDARGRIRNGALLRVYVPRSSLPGFYRTGLTLAAPEAAGEVERLIGH
PLPLRLDAITGPEEEGGRLETILGWPLAERTVVIPSAIPTDPRNVGGDLDPSSIPDKEQAISALPDYAS
QPGKPPREDLK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111100000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000001111111
>P09960_2vj8_0_610
MPEIVDTCSLASPASVCRTKHLHLRCSVDFTRRTLTGTAALTVQSQEDNLRSLVLDTKDLTIEKVVING
QEVKYALGERQSYKGSPMEISLPIALSKNQEIVIEISFETSPKSSALQWLTPEQTSGKEHPYLFSQCQAI
HCRAILPCQDTPSVKLTYTAEVSVPKELVALMSAIRDGETPDPEDPSRKIYKFIQKVPIPCYLIALVVGA
LESRQIGPRTLVWSEKEQVEKSAYEFSETESMLKIAEDLGGPYVWGQYDLLVLPPSFPYGGMENPCL
TFVTPTLLAGDKSLSNVIAHEISHSWTGNLVTNKTWDHFWLNEGHTVYLERHICGRLFGEKFRHFN
ALGGWGELQNSVKTFGETHPFTKLVVDLTDIDPDVAYSSVPYEKGFALLFYLEQLLGGPEIFLGFLKA
YVEKFSYKSITTDDWKDFLYSYFKDKVDVLNQVDWNAWLYSPGLPPIKPNYDMTLTNACIALSQRW
ITAKEDDLNSFNATDLKDLSSHQLNEFLAQTLQRAPLPLGHIKRMQEVYNFNAINNSEIRFRWLRLC
IQSKWEDAIPLALKMATEQGRMKFTRPLFKDLAAFDKSHDQAVRTYQEHKASMHPVTAMLVGKDL
KVD
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000
>Q47Z72_3o0y_23_631

NENNTVVAETKTSTASETSEPKQVISSKQQLASLYLQAKQSLFKQRALSATMYGLSQKDIGQVISSDM
EFYSPENEKQLRAELLSISNTIAGIKLDDADITTKNNQQVMAGLTRYFAGEPNFNIGYIDTWMGLSPF
IVNQINGPLIDIPRVMQNDQPITTEKEALDYIVRLGQFDKLAATIIEKQTADAAQNWLPSKVTLQGAI
KYLKGFTSGSAEQHPFVNVFREKIEKVDSLTTEQKQSLITQVIAKVSQVVYPAYQSVEKASEQLLSEAR
SESGIWAQPKGSVYYQDAIKQLGDSELSPTQIHQIGLDEVARISGVMNEILLAQGYTKGTVGERMVAL
NEEPRFLYEDSIAGREELLSDINGYITEVTAKMAPVFRTTPSYQVEVKSFPVEVQDGAPGGQYTSPAV
DGSKPGIYWINLRDMKANPKFGLKTLTYHEANPGHHWQIALNLDQAELPFLRRIAPYNAYTEGWAL
YSEQVAYELGMYENDPFGDLGRLQAELFRAVRLVVDTGLHDKRWTREQAISYMSEQTGTAESDVVA
EIERYMAWPGQALGYKLGMLKILSLREQAKARLGDKFDLAEFHDVVLLNGAVPMAVLSRNVNHWL
DNK
11111111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000
>Q62192_3t6q_20_625
TTSSDQKCIEKEVNKTYNCENLGLNEIPGTLPNSTECLEFSFNVLPTIQNTTFSRLINLTFLDLTRCQIY
WIHEDTFQSQHRLDTLVLTANPLIFMAETALSGPKALKHLFFIQTGISSIDFIPLHNQKTLESLYLGSN
HISSIKLPKGFPTEKLKVLDFQNNAIHYLSKEDMSSLQQATNLSLNLNGNDIAGIELGAFDSAVFQSL
NFGGTQNLLVIFKGLKNSTIQSLWLGTFEDMDDEDISPAVFEGLCEMSVESINLQKHYFFNISSNTFH
CFSGLQELDLTATHLSELPSGLVGLSTLKKLVLSANKFENLCQISASNFPSLTHLSIKGNTKRLELGTGC
LENLENLRELDLSHDDIETSDCCNLQLRNLSHLQSLNLSYNEPLSLKTEAFKECPQLELLDLAFTRLK
VKDAQSPFQNLHLLKVLNLSHSLLDISSEQLFDGLPALQHLNLQGNHFPKGNIQKTNSLQTLGRLEIL
VLSFCDLSSIDQHAFTSLKMMNHVDLSHNRLTSSSIEALSHLKGIYLNLASNRISIILPSLLPILSQQRTI
NLRQNPLDCTCSNIYFLEWYKENMQKLEDTEDTLCENPPLLRGVRLSDVTLSCS
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>Q5SHU6_2d5w_20_621
GPQDNSLVIGASQEPRVLAGDFLRVISNQAIKSEIEQYLFAPFIGFNADSQNFPVLATEVPTLENGRLR
VTDIGGGKKRLEMDITIRPDAKWSDGRPITTEDVAFYFEVGKAKGMPVLNPDFWERVNVRIKDARN
FTLIFEPAYYYDTYGPINTYAPKHIMGPEWERVKAAARGLDPDKDAEKLNELYRNFFLKFATPQALN
RGAMVYSGPFKLKRWVPGNSIEMERNPNFPIKPEGGESKYVQKVVYRFIQNTNSLLVAVIGGSIDATS
SVSLTFDQGRSPQLVRRAPGRFDIWFVPGAIWEHIDINKFENCQVVKDLGLNDKRTRQAILHALNRE

GLVKAFFDGLQPVAHTWIAPVNPLFNPNVKKYEFDLKKAEALLAEMGWRKGPDGILQRTVNGRTV
RFEIEYVTTAGNVVRERTQQFFAEDLKKIGIAVKINNAPSAVVFADEFIQRASECKWTGMFEFAWVS
NLQEDGSLFQYKNLNTGAIMVPTKENNYQGQNIGGWRNDEFDRLTSQAVLEFDPERRKQLFWRAQ
EIWAEELPALPLYFRANPYVVRKGLVNYVASAYSGGYGYPGWNAWEIGWESRGAVKKWDQAKYALS
TR
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001
>Q8KKG0_3edj_18_618
AAPTAIEHMEPPFWWAGMQHKGLQLMVHGRDIGRMEAALDYPGVRLVSTTRVPNANYLFVDLEIG
PEAQPGSFDIVFKGDGRSERYRYRLLAREQGSAQRQGFGPGDAIYQIMPDRFANGDPSNDNVAGMRE
QADRRHGGGRHGGDIRGTIDHLDYIAGLGFTQLWPTPLVENDAAAYSYHGYAATDHYRIDPRYGSNE
DFVRLSTEARKRGMGLIQDVVLSHIGKHHWWMKDLPTPDWINYGGKFVPTQHHRVAVQDPYAAQ
ADSENFTKGWFVEGMPDLNQTNPLVANYLIQNNIWWIEYAGLSGLRIDTYGYSDGAFLTEYTRRLM
AEYPRLNMVGEEWSTRVPVVARWQRGKANFDGYTSHLPSLMDFPLVDAMRNALSKTGEENGLNE
VYETLSLDYLYPEPQNLVLFGGNHDMARMFSAAGEDFDRWRMNLVFLMTMPRIPQFYSGDEILMT
STVKGRDDASYRRDFPGGWAGDKANAFSGAGLTSQQRAAQDLVRKLANWRKNQPVIHNGRLMHF
GPEENTWVYFRYNKDKRIMVAMNNNDKPMTLPTARFQEMLKGAPSGVDFLSGKTVGLGRELRLAP
KSVVVIELPGLPEA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011
>Q9L5A4_3hjr_24_623
NEGCAPLTGKESGMDIGRSSTERCLPGANPLQDQQWYLLNSGQDGFSARGGIAGNDLNLWWAHRT
GVLGQGVNVAVVDDGLAIAHPDLADNVRPGSKNVVTGSDDPTPTDPDTAHGTSVSGIIAAVDNAIGT
KGIAPRAQLQGFNLLDDNSQQLQKDWLYALGDSNASRDNRVFNQSYGMSVVDPRSANSLDQSQLD
RLFEQQTLKAQGAAYIKAAGNGFNKIAAGGYVLNRTGNGPKLPFENSNLDPSNSNFWNLVVSALNA
DGVRSSYSSVGSNIFLSATGGEYGTDTPAMVTTDLPGCDMGYNRTDDPSTNRLHGNSQLDASCDYN
GVMNGTSSATPSTSGAMALLMSAYPDLSVRDLRDLLARSATRVDAKHQPVMVSYTSSTGKVRDVKG
LEGWERNAAGMWFSPTYGFGLIDVNKALELAANHQPLPPLVQLPWQKINVTGSAAAIADVGNSPTS
STTRIATPLTVEAVQVMVSLDHQRLPDLLIELVSPAGTRSILLSPFNSLVGQSLDQQQLGFVRTKGLRD
MRMLSNKFYGESAQGTWRLEVTDVANGTRQVSLLNRETRERTTLTERNNRQPGKLISWSLRVLGH

DANRS
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111
>Q9RX51_2bhy_0_599
MTQTQPVTPTPPASFQTQHDPRTRLGATPLPGGAGTRFRLWTSTARTVAVRVNGTEHVMTSLGGGI
YELELPVGPGARYLFVLDGVPTPDPYARFLPDGVHGEAEVVDFGTFDWTDADWHGIKLADCVFYEV
HVGTFTPEGTYRAAAEKLPYLKELGVTAIQVMPLAAFDGQRGWGYDGAAFYAPYAPYGRPEDLMAL
VDAAHRLGLGVFLDVVYNHFGPSGNYLSSYAPSYFTDRFSSAWGMGLDYAEPHMRRYVTGNARMW
LRDYHFDGLRLDATPYMTDDSETHILTELAQEIHELGGTHLLLAEDHRNLPDLVTVNHLDGIWTDD
FHHETRVTLTGEQEGYYAGYRGGAEALAYTIRRGWRYEGQFWAVKGEEHERGHPSDALEAPNFVYCI
QNHDQIGNRPLGERLHQSDGVTLHEYRGAAALLLPMTPLLFQGQEWAASTPFQFFSDHAGELGQAV
SEGRKKEFGGFSGFSGEDVPDPQAEQTFLNSKLNWAEREGGEHARTLRLYRDLLRLRREDPVLHNR
QRENLTTGHDGDVLWVRTVTGAGERVLLWNLGQDTRAVAEVKLPFTVPRRLLLHTEGREDLTLGA
GEAVLVG
11111111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111111000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>B8CZ54_3bc9_24_622
GCSNISEDVNNPNRSLFLIESEPSTGASVSKNLTEIILIFSNDINKVSQLALTDLITDSDIQGIDYNIEGN
KVIINNFSLEPTCNYRLSYEVIDIYDNHLQGYIEFLVNQSNYPQIPDQEVNHTILQAFYWEMNTGEYA
TEHPEEANLWNLLAERAPELAEAGFTAVWLPPANKGMAGIHDVGYGTYDLWDLGEFDQKGTVRTK
YGTKGELENAIDALHNNDIKVYFDAVLNHRMGADYAETVLLDENSRDKPGQYIKAWTGFNFPGRNG
EYSNFTWNGQCFDGTDWDDYSKESGKYLFDEKSWDWTYNWDEDYLMGADVDYENEAVQNDVID
WGQWIINNIDFDGFRLDAVKHIDYRFIDKWMSAVQNSSNRDVFFVGEAWVEDVDDLKGFLDTVGN
PDLRVFDFPLRSFFVDMLNGAYMADLRNAGLVNSPGYENRAVTFVDNHDTDRDEGSYTVSIYSRKY
QAYAYILTRAEGVPTVYWKDYYIWEMKEGLDKLLTARRYYAYGPGYEVDNNDADIYSYVRSGFPDVA
GDGLVLMISDGTSGNVAGKWINSRQPDTEFYDLTGHIKEHVTTDSEGYGNFKVIKSEDKGWSIWVPV
E
11111111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>Q962Y6_2x8h_0_595
MPPADGTSQWLRKTVDSAAVILFSKTTCPYCKKVKDVLAEAKIKHATIELDQLSNGSAIQKCLASFSK
IETVPQMFVRGKFIGDSQTVLKYYSNDELAGIVNESKYDYDLIVIGGGSGGLAAGKEAAKYGAKTAVL
DYVEPTPIGTTWGLGGTCVNVGCIPKKLMHQAGLLSHALEDAEHFGWSLDRSKISHNWSTMVEGV
QSHIGSLNWGYKVALRDNQVTYLNAKGRLISPHEVQITDKNQKVSTITGNKIILATGERPKYPEIPGA
VEYGITSDDLFSLPYFPGKTLVIGASYVALECAGFLASLGGDVTVMVRSILLRGFDQQMAEKVGDYME
NHGVKFAKLCVPDEIKQLKVVDTENNKPGLLLVKGHYTDGKKFEEEFETVIFAVGREPQLSKVLCET
VGVKLDKNGRVVCTDDEQTTVSNVYAIGDINAGKPQLTPVAIQAGRYLARRLFAGATELTDYSNVATT
VFTPLEYGACGLSEEDAIEKYGDKDIEVYHSNFKPLEWTVAHREDNVCYMKLVCRKSDNMRVLGLH
VLGPNAGEITQGYAVAIKMGATKADFDRTIGIHPTCSETFTTLHVTKKSGVSPIVSGC
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000111
>C0SSE7_3a9s_0_594
MAKDPRYVGNLPKIGIRPTIDGRRKGVRESLEETTMNMAKAVAKLLEENVFYYNGQPVECVIADTCI
GGVKEAAEAAEKFAREGVGVSITVTPCWCYGTETMDMDPHIPKAVWGFNGTERPGAVYLAAVLAG
YNQKGLPAFGIYGKDVQDAGDTNIPEDVKEKLIRFAKAGLAVAMMKGKSYLSIGSVSMGIAGSVVQED
FFQNYLGMRNEYVDMSEFVRRIELEIYDKEEYERALKWVKENCKVGPDNNRDGFKRTEEQKEKD
WEISVKMALIARDLMVGNKKLEEMGYGEEALGRNAIVAGFQGQRQWTDYFPNGDFMETILNSSFD
WNGKRAPYIFATENDNLNGISMLFGYLLTNTAQIFADVRTYWSPEAVKRVTGYTLEGRAANGIIHLIN
SGAAALDGTGEQTKDGKPVIKPYYELTDEDIKKCLEATQFRPASTEYFRGGGYSTDFLTKGGMPVTIS
RLNIVKGLGPVLQIAEGYTVDLPEEVHDVLDKRTDPTWPTTWFVPNLTGEGAFKDVYSVMNNWGA
NHCSISYGHIGADLITLASILRIPVNMHNVPEEKIFRPDAWSMFGTKDLEGADYRACKNFGPIYK
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000011111

>Q81XJ1_3owa_0_593
MEKTVGNAVKGGSFLVDEITIDQVFTPEDFSSEHKMIAKTTEDFIVNEVLPELEYLEQHEFDRSVRLL
KEAGELGLLGADVPEEYGGIGLDKVSSALIAEKFSRAGGFAITHGAHVGIGSLPIVLFGNEEQKKKYLP
LLATGEKLAAYALTEPGSGSDALGAKTTARLNAEGTHYVLNGEKQWITNSAFADVFIVYAKIDGEHFS
AFIVEKDYAGVSTSPEEKKMGIKCSSTRTLILEDALVPKENLLGEIGKGHIIAFNILNIGRYKLGVGTVGS
AKRAVEISAQYANQRQQFKQPIARFPLIQEKLANMAAKTYAAESSVYRTVGLFESRMSTLSEEEVKD
GKAVAASIAEYAIECSLNKVFGSEVLDYTVDEGVQIHGGYGFMAEYEIERMYRDSRINRIFEGTNEINR
LIVPGTFLRKAMKGELPLLQKAQKLQEELMMMMPEEVGDEPLALQKYLVNNAKKIGLMVAGLAAQ
KYGKALDKEQEILVNIADIVSNLYAMESAVLRTEKAIKTTGLEKNKQKVLYTEVFCQEAFNEIEAHAK
ETLIAVENGDMLRMMLSSLRKLTRHTPLNVIPKKREIAAKILEDERYTV
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>Q8ZPF0_3m07_0_593
MSSKIFCKSWGAEYIAADVVRFRLWATGQQKVMLRLAGKDQEMQANGDGWFTLDVAGVTPGTEY
NFVLSDGMVVPDPASRAQKTDVNGPSYVVDPGSYTWRNTGWKGSRWEQAVVYEMHTGTFTPEGT
FRAAIAKLPYLAELGVTVIEVMPVAQFGGERGWGYDGVLLYAPHSAYGTPDDFKAFIDAAHGYGLSV
VLDIVLNHFGPEGNYLPLLAPAFFHKERMTPWGNGIAYDVDAVRRYIIEAPLYWLTEYHLDGLRFDA
IDQIEDSSARHVLVEIAQRIREDITDRPIHLTTEDSRNIISLHPRDQDGNAPLFTAEWNDDFHNAVHV
FATGETQAYYNDFADAPEKHLARALAEGFAYQGEISPQTGEPRGVKSTGQPPVAFVDFIQNHDQVGN
RAQGDRLITLAGAERTKVLLATLLLSPHIPLLFMGEEYGESRPFLFFTDFHGDLARAVREGRAKEFAD
HAGENVPDPNAPETFQRSKLNWKQQHSEEGKAWLAFTRELLLLRQKHIVPLLSAARESSGTVLQTA
PGFIAVSWRFPGGTLSLALNISATTVLLPDLPGKTLFAWPNESTGSLSQHSLIVRLAQGESAS
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000011111
>Q16820_4gwm_24_613
ENFDVDGGMDQDIFDINEGLGLDLFEGDIRLDRAQIRNSIIGEKYRWPHTIPYVLEDSLEMNAKGVIL
NAFERYRLKTCIDFKPWAGETNYISVFKGSGCWSSVGNRRVGKQELSIGANCDRIATVQHEFLHALG
FWHEQSRSDRDDYVRIMWDRILSGREHNFNTYSDDISDSLNVPYDYTSVMHYSKTAFQNGTEPTIV
TRISDFEDVIGQRMDFSDSDLLKLNQLYNCSSSLSFMDSCSFELENVCGMIQSSGDNADWQRVSQVP
RGPESDHSNMGQCQGSGFFMHFDSSSVNVGATAVLESRTLYPKRGFQCLQFYLYNSGSESDQLNIYIR

EYSADNVDGNLTLVEEIKEIPTGSWQLYHVTLKVTKKFRVVFEGRKGSGASLGGLSIDDINLSETRCP
HHIWHIRNFTQFIGSPNGTLYSPPFYSSKGYAFQIYLNLAHVTNAGIYFHLISGANDDQLQWPCPWQ
QATMTLLDQNPDIRQRMSNQRSITTDPFMTTDNGNYFWDRPSKVGTVALFSNGTQFRRGGGYGTS
AFITHERLKSRDFIKGDDVYILLTVEDISHLNSTQIQLTPAPSVQDLCSKTTCK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001111100
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00001111111111111111111
>Q3K5N8_4a9x_47_632
ASVSAGNSRLLGFDSIPAATTDTISLPKGYKSSVLISWGQPLHKNGPAFDPSGNGTAAAQEVQFGDNN
DGMSLFEFPGEKNRALMAINNEYTNYRYLYPHGGMPQSAEDVRKALACEGVSVIEVQRKNGQWQF
VQGSRYNRRIHGNSPLRISGPAAGHELMKTSADKHGKKVLGTFQNCANGKTPWGTYLTCEENFTDC
FGSSNAQQQFDPAQKRYGVSAASREINWHPFDPRFDMAKNPNELNRHGWVVEIDPFDPQSTPVKR
TALGRFKHENAALAETDDGRAVVYMGDDERGEFIYKFVSRDKINHRNAKANRDILDHGTLYVARFD
AGDGNPDHPKGQGQWIELTHGKNGIDASSGFADQAEVLIHARLAASVVGATRMDRPEWIVVSPKDG
QVYCTLTNNAKRGEDGQPVGGPNPREKNVYGQILRWRTDRDDHASKTFAWDLFVVAGNPSVHAGT
PKGGSSNITPQNMFNSPDGLGFDKAGRLWILTDGDSSNAGDFAGMGNNQMLCADPATGEIRRFMVG
PIGCEVTGISFSPDQKTLFVGIQHPGENGGSTFPEHLPNGKPRSSVMAITREDGGIVGA
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000000
>Q9WXN8_2o7i_21_605
QVSLPREDTVYIGGALWGPATTWNLYAPQSTWGTDQFMYLPAFQYDLGRDAWIPVIAERYEFVDDK
TLRIYIRPEARWSDGVPITADDFVYALELTKELGIGPGGGWDTYIEYVKAVDTKVVEFKAKEENLNYF
QFLSYSLGAQPMPKHVYERIRAQMNIKDWINDKPEEQVVSGPYKLYYYDPNIVVYQRVDDWWGKD
IFGLPRPKYLAHVIYKDNPSASLAFERGDIDWNGLFIPSVWELWEKKGLPVGTWYKKEPYFIPDGVG
FVYVNNTKPGLSDPAVRKAIAYAIPYNEMLKKAYFGYGSQAHPSMVIDLFEPYKQYIDYELAKKTFGT
EDGRIPFDLDMANKILDEAGYKKGPDGVRVGPDGTKLGPYTISVPYGWTDWMMMCEMIAKNLRSI
GIDVKTEFPDFSVWADRMTKGTFDLIISWSVGPSFDHPFNIYRFVLDKRLSKPVGEVTWAGDWERY
DNDEVVELLDKAVSTLDPEVRKQAYFRIQQIIYRDMPSIPAFYTAHWYEYSTKYWINWPSEDNPAW
FRPSPWHADAWPTLFIISKKSDPQPVPSWLGTVDEGGIEIPTAKIFEDLQKATM
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001
>Q5ZTD3_3kxw_1_580
KKEYLQCQSLVDVVRLRALHSPNKKSCTFLNKELEETMTYEQLDQHAKAIAATLQAEGAKPGDRVL
LLFAPGLPLIQAFLGCLYAGCIAVPIYPPAQEKLLDKAQRIVTNSKPVIVLMIADHIKKFTADELNTNPK
FLKIPAIALESIELNRSSSWQPTSIKSNDIAFLQYTSGSTMHPKGVMVSHHNLLDNLNKIFTSFHMND
ETIIFSWLPPHHDMGLIGCILTPIYGGIQAIMMSPFSFLQNPLSWLKHITKYKATISGSPNFAYDYCVK
RIREEKKEGLDLSSWVTAFNGAEPVREETMEHFYQAFKEFGFRKEAFYPCYGLAEATLLVTGGTPGS
SYKTLTLAKEQFQDHRVHFADDNSPGSYKLVSSGNPIQEVKIIDPDTLIPCDFDQVGEIWVQSNSVAK
GYWNQPEETRHAFAGKIKDDERSAIYLRTGDLGFLHENELYVTGRIKDLIIIYGKNHYPQDIEFSLMH
SPLHHVLGKCAAFVIQEEHEYKLTVMCEVKNRFMDDVAQDNLFNEIFELVYENHQLEVHTIVLIPLK
AMPHTTSGKIRRNFCRKHLLDKTLPIVATWQLNKIEE
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000001111100000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0011100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
000000000011
>P13699_3mx5_0_568
MSASKEIKSFLWTQSLRRELSGYCSNIKLQVVKDAQALLHGLDFSEVSNVQRLMRKERRDDNDLKR
LRDLNQAVNNLVELKSTQQKSILRVGTLTSDDLLILAADLEKLKSKVIRTERPLSAGVYMGNLSSQQL
DQRRALLNMIGMSGGNQGARAGRDGVVRVWDVKNAELLNNQFGTMPSLTLACLTKQGQVDLNDA
VQALTDLGLIYTAKYPNTSDLDRLTQSHPILNMIDTKKSSLNISGYNFSLGAAVKAGACMLDGGNMLE
TIKVSPQTMDGILKSILKVKKALGMFISDTPGERNPYENILYKICLSGDGWPYIASRTSITGRAWENTV
VDLESDGKPQKADSNNSSKSLQSAGFTAGLTYSQLMTLKDAMLQLDPNAKTWMDIEGRPEDPVEIA
LYQPSSGCYIHFFREPTDLKQFKQDAKYSHGIDVTDLFATQPGLTSAVIDALPRNMVITCQGSDDIRKL
LESQGRKDIKLIDIALSKTDSRKYENAVWDQYKDLCHMHTGVVVEKKKRGGKEEITPHCALMDCIM
FDAAVSGGLNTSVLRAVLPRDMVFRTSTPRVVL
1111111000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000111111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000011111111111111111
1111111100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000011110000000000000000000000000000000000000000001111111

1
>Q76KB0_3vkt_18_586
FSKNAVKLHATPPSVAAPPTGAPEVAAERLEPRVEEKDGYWILKEQFRKGINPQEKVKIEKEPMKLF
MENGIEELAKIPIEEIDQSKLTKDDIDVRLKWLGLFHRRKNQYGRFMMRLKLPNGVTTSAQTRYLAS
VIRKYGKEGCADITTRQNWQIRGVVLPDVPEILKGLAEVGLTSLQSGMDNVRNPVGNPLAGIDPEEIV
DTRPYTNLLSQFITGNSRGNPAVSNLPRKWNPCVVGSHDLYEHPHINDLAYMPATKDGRFGFNLLVG
GFFSAKRCDEAIPLDAWVPADDVVPVCKAILEAFRDLGFRGNRQKCRMMWLIDELGVEGFRAEVEK
RMPQQQLERASPEDLVQKQWERRDYLGVHPQKQEGYSFIGLHIPVGRVQADDMDELARLADEYGSG
EIRLTVEQNIIIPNIETSKIEALLKEPVLSTFSPDPPILMKGLVACTGNQFCGQAIIETKARSLKITEEVQ
RQVSLTKPVRMHWTGCPNTCAQVQVADIGFMGCLTRDKNGKTVEGADVFLGGRIGSDSHLGEVYKK
AVPCDDLVPLVVDLLVNNFGAVPREREETED
1111111111111111111111100000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000111111
1
>B5CY96_4aw7_29_597
VDYNTRRFLSGVSELDRSKYFNIHSTSDDDKDVGKFLADYQVGLGRKFWGPYSYAYNKTHEVGKYP
QMKPYSGNISVKRYIATEHPYVQHIQGGIDVQAAGAWSAEYYSNSELVPEFFEPLNEPFVHANDAGF
TVQGQAMRELMVDFYASIGKHIHNNPRLNGKMKVIGYAAAYPAWEDGNFNYWNTRMKMFIDRAG
AYMDGFSVHLYDGIVTGTDTKRSGSNSEAVLDMVEAYSYIKFGHVKPLAISEFGGIDNSKPDDSYDDI
SSVRSVSSFNHFLFNLMERQDNLFISIPFVSDKAEWHITAANNYTSYSAALFIPDNPQNLKNTTWRL
NDKKYFFELWKNVKGERVDITSSNPDIQVQAFKDGGRLYIALDNLDDNPQTVYLNNKNSWKDVSN
VTKRSLYVNYNAGIEYTEQNVPSMPESISIVPNQTIVLVADVSSSAFTNSIIRNKYYSSEYLKPISAGSSL
SFPFTGIESGSGRASLRMSIGRPVSASKKPVVKINGTAVSVPDNWKGYGQSNRNIFFGMIEVPFDIQLL
KNGDNNVDITFSDGGGHVSSMILQVEKYTVS
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000011
1110000000000000000000000000000000000000100000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000001000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>Q2T061_4f4h_0_560
MKTRIALAQLNVTVGDFAGNVAKIVAAAQAAHDAGAHFLIAPELALSGYPPEDLLLRPAFYAASDAA
LAELAAQLKPFAGLAVLVGHPLRAPSADGNANRAIERGVPPVDTYNAASLIVGGEVAGTYRKQDLPN
TEVFDEKRYFATDAAPYVFELNGVKFGVVICEDVWHASAAQLAKAAGAQVLIVPNGSPYHMNKDAV
RIDILRARIRETGLPMVYVNLVGGQDELVFDGGSFVLDGAGELVAKMPQFEEGNAIVEFDGARALPA
AIAPALSVEAQVYRALVLGVRDYIGKNGFPGAIIGLSGGVDSALVLAVAVDALGAERVRAVMMPSRYT

AGISTTDAADMARRVGVRYDEIAIAPMFDAFRASLAAEFAGLAEDATEENIQARIRGTLLMALSNKF
GSIVLTTGNKSEMAVGYCTLYGDMAGGFAVIKDIAKTLVYRLCRYRNAAAEYGQPDIVPERILTRAPSA
ELRENQTDQDSLPPYDVLDAIMRMYMEEDRPLAEIVAAGYSEADVKRVTRLIKINEYKRRQAPVGIR
VTHRAFGRDWRYPITSRFVESID
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111111111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>Q5HCV6_3iii_0_559
MNQHLLGNPKLTVTHVNEVKAGINHIVVDSVQYGNQEMIMEKDGTVEMRDGEKLYINIFRPNKDG
KFPVVMSADTYGKDNKPKITNMGALWPTLGTIPTSSFTPEESPDPGFWVPNDYVVVKVALRGSDKS
KGVLSPWSKREAEDYYEVIEWAANQSWSNGNIGTNGVSYLAVTQWWVASLNPPHLKAMIPWEGL
NDMYREVAFHGGIPDTGFYRFWTQGIFARWTDNPNIEDLIQAQQEHPLFDDFWKQRQVPLSQIKTP
LLTCASWSTQGLHNRGSFEGFKQAASEEKWLYVHGRKEWESYYARENLERQKSFFDFYLKEENND
WKDTPHVIYEVRDQFYKGEFKSASAFPLPNAEYTPLYLNAENHTLNHAKISSAHVAQYDSEDKQQD
VSFKYTFDKDTELVGNMNLKLWVSTKDSDDMDLFAGIKKLDRRGNEVNFPDFNHIENGQVATGWL
RVSHRELDQEKSSIAQPWHKHETELKLSQDEIVPVEIELLPSGTLFKQGETLEVVVKGSEIVIGNSTPG
MKTRYEHEETVNKGMHMIYTGGKYDSQLIIPIVN
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>Q13WK7_2w3p_0_555
MSTAETAVAPVDYRTDPSQYKHWKLSFNGPVATLGIDIAEDGGIRDGYKLKLNSYDLGVDIELHDAIQ
RIRFEHPEVRTVVLTSLKDRVFCSGANIFMLGLSTHAWKVNFCKFTNETRNGLEDSSRHSGLKFLAA
VNGACAGGGYELALACDEIYLVDDRSSSVSLPEVPLLGVLPGTGGLTRVTDKRKVRHDRADIFCTVVE
GVRGERAKAWRLVDEVVKPNQFDQAIQARALELAAQSDRPAHAQGVPLTRIERTDREDGLTYKTLD
VTIDRAKRIATFTAKAPQTEPPASIDAIVAAGANWWPLKFAREFDDAILSMRTNELAVGTWVFRTEG
DARHLLAADASLMQHKDHWFVRETIGLLRRTLARIDVSSRSLFALIEPGSCFAGTFAELAFAADRTY
MAALPANEDEEPAITLSEVNFGLYPMVTHQSRLARRFYEETEPLDAVRSRIGQAIKPVEAERLGLVTA
SPDDIDWADEIRIALEERAAMSPDALTGLEANLRFNGPETMETRIFGRLTAWQNWIFNRPNAVGEK
GALKVYGKGSKAQFDVSRV
11111111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>P0C061_1amu_2_555
NSSKSILIHAQNKNGTHEEEQYLFAVNNTKAEYPRDKTIHQLFEEQVSKRPNNVAIVCENEQLTYHE
LNVKANQLARIFIEKGIGKDTLVGIMMEKSIDLFIGILAVLKAGGAYVPIDIEYPKERIQYILDDSQARM
LLTQKHLVHLIHNIQFNGQVEIFEEDTIKIREGTNLHVPSKSTDLAYVIYTSGTTGNPKGTMLEHKGIS
NLKVFFENSLNVTEKDRIGQFASISFDASVWEMFMALLTGASLYIILKDTINDFVKFEQYINQKEITVI
TLPPTYVVHLDPERILSIQTLITAGSATSPSLVNKWKEKVTYINAYGPTETTICATTWVATKETIGHSV
PIGAPIQNTQIYIVDENLQLKSVGEAGELCIGGEGLARGYWKRPELTSQKFVDNPFVPGEKLYKTGDQ
ARWLSDGNIEYLGRIDNQVKIRGHRVELEEVESILLKHMYISETAVSVHKDHQEQPYLCAYFVSEKHI
PLEQLRQFSSEELPTYMIPSYFIQLDKMPLTSNGKIDRKQLPEPDLTFGMRVDYEAPRNEIEETLVTI
WQDVLG
11111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000001111111111111111111111111111
>Q00955_1w96_12_565
KMEYEITNYSERHTELPGHFIGLNTVDKLEESPLRDFVKSHGGHTVISKILIANNGIAAVKEIRSVRK
WAYETFGDDRTVQFVAMATPEDLEANAEYIRMADQYIEVPGGTNNNNYANVDLIVDIAERADVDAV
WAGWGHASENPLLPEKLSQSKRKVIFIGPPGNAMRSLGDKISSTIVAQSAKVPCIPWSGTGVDTVHV
DEKTGLVSVDDDIYQKGCCTSPEDGLQKAKRIGFPVMIKASEGGGGKGIRQVEREEDFIALYHQAANE
IPGSPIFIMKLAGRARHLEVQLLADQYGTNISLFGRDCSVQRRHQKIIEEAPVTIAKAETFHEMEKAA
VRLGKLVGYVSAGTVEYLYSHDDGKFYFLELNPRLQVEHPTTEMVSGVNLPAAQLQIAMGIPMHRIS
DIRTLYGMNPHSASEIDFEFKTQDATKKQRRPIPKGHCTACRITSEDPNDGFKPSGGTLHELNFRSSS
NVWGYFSVGNNGNIHSFSDSQFGHIFAFGENRQASRKHMVVALKELSIRGDFRTTVEYLIKLLETED
FEDNTITTGWLDDLI
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>Q72IT0_2wdd_23_572
ALEDPRSLYDLPPYGDATLLYFSDLHGQAFPHYFMEPPNLIAPKPLMGRPGYLTGEAILRYYGVERGT
PLAYLLSYVDFVELARTFGPIGGMGALTALIRDQKARVEAEGGKALVLDGGDTWTNSGLSLLTRGEA
VVRWQNLVGVDHMVSHWEWTLGRERVEELLGLFRGEFLSYNIVDDLFGDPLFPAYRIHRVGPYALA

VVGASYPYVKVSHPESFTEGLSFALDERRLQEAVDKARAEGANAVVLLSHNGMQLDAALAERIRGID
LILSGHTHDLTPRPWRVGKTWIVAGSAAGKALMRVDLKLWKGGIANLRVRVLPVLAEHLPKAEDVE
AFLKAQLAPHQDHLFTPLAVSETLLYKRDTLYSTWDQLVGEAVKAIYPEVEVVFSPAVRWGTTILPG
QAITWDHLYAYTGFTYPELYLFYLRGAQIKAVLEDIASNVFTSDPFYQQGGDVSRVFGLRYVLDPDAP
TGERVREVEVGGRPLDPNRRYLAAAYGGRLQRVGEAKPGYEPRPIYEVLAEYLRSVGRVRVRPEPNV
KVIGRNYRLPEVTG
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>Q7KZF4_3bdl_339_887
DKQFVAKVMQVLNADAIVVKLNSGDYKTIHLSSIRPPRLEGENTQDKNKKLRPLYDIPYMFEAREFL
RKKLIGKKVNVTVDYIRPASPATETVPAFSERTCATVTIGGINIAEALVSKGLATVIRYRQDDDQRSSH
YDELLAAEARAIKNGKGLHSKKEVPIHRVADISGDTQKAKQFLPFLQRAGRSEAVVEYVFSGSRLKLY
LPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEEATLFTKELVLQREVEVEVESMDKAGNFIGWL
HIDGANLSVLLVEHALSKVHFTAERSSYYKSLLSAEEAAKQKKEKVWAHYEEQPVEEVMPVLEEKER
SASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIASHPPVEGSYAPRRGEFCIAKFVDGE
WYRARVEKVESPAKIHVFYIDYGNREVLPSTRLGTLSPAFSTRVLPAQATEYAFAFIQVPQDDDARTD
AVDSVVRDIQNTQCLLNVEHLSAGCPHVTLQFADSKGDVGLGLVKEGLVMVEVRKEKQFQKVITEYL
NAQESAKSA
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>Q8DQ62_2bib_25_571
QESSGNKIHFINVQEGGSDAIILESNGHFAMVDTGEDYDFPDGSDSRYPWREGIETSYKHVLTDRVFR
RLKELSVQKLDFILVTHTHSDHIGNVDELLSTYPVDRVYLKKYSDSRITNSERLWDNLYGYDKVLQTA
TETGVSVIQNITQGDAHFQFGDMDIQLYNYENETDSSGELKKIWDDNSNSLISVVKVNGKKIYLGGD
LDNVHGAEDKYGPLIGKVDLMKFNHHHDTNKSNTKDFIKNLSPSLIVQTSDSLPWKNGVDSEYVN
WLKERGIERINAASKDYDATVFDIRKDGFVNISTSYKPIPSFQAGWHKSAYGNWWYQAPDSTGEYAV
GWNEIEGEWYYFNQTGILLQNQWKKWNNHWFYLTDSGASAKNWKKIDGIWYYFNKENQMEIGW
VQDKEQWYYLDVDGSMKTGWLQYMGQWYYFAPSGEMKMGWVKDKETWYYMDSTGVMKTGEIE
VAGQHYYLEDSGAMKQGWHKKANDWYFYKTDGSRAVGWIKDKDKWYFLKENGQLLVNGKTPEG
YTVDSSGAWLVDVSIEKSATIKTT
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000111111
>E3PQS3_3ugf_109_654
FPDNAVPYPWSNAQLSWQRTAFHFQPERSWMSDPDGPIFYKGWYHFFYQYNPDNPVWGNNTWG
HTVSRDLIHWLYLPLALAADQWYDMQGVFSGSATCLPDGRIMMLYTGVTKEMVEMLSLAYPADLS
DPLLVEWVKYPGNPILSAPPGVSPTEFRDASTGWYVSNGTWRIAIGAKYNTTGIAMVYETKDFKSFK
LLEELLHAVPDTGLWECVDLYPVSTTGEKGLETSVNGPKVKHVLKASIDEQQRDYYAIGTYDLGTNK
WTPDNPEEDVGIGLRYDWGKYYASKTFYDPKKQRRVVWAWTKELDSEVADREKGWANVQTIPRT
VLLDQKTGTNVLLWPVEEVESLRLSSKEFSKVKAGAGSVVPLDVGTATQLDIIAEFEIDKEALEGTIEA
DMGYNCTTSGGAAERGVLGPFGLLVSATENLSEQTPVYFYIAKGTDGNFKTFFCLDESRSSKASDVSK
QVKGFTVPVLDGEKFTMRLLVDHSIVESFAQGGRSCITSRVYPTEAIYGAAKLFLFNNATGASITASLK
IWEMNSAFIQPFHR
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111111111000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000001
>Q51504_3oc2_34_578
DLHVIDHDFLKGQGDARSVRHIAIPAHRGLITDRNGEPLAVSTPVTTLWANPKELMTAKERWPQLA
AALGQDTKLFADRIEQNAEREFIYLVRGLTPEQGEGVIALKVPGVYSIEEFRRFYPAGEVVAHAVGFTD
VDDRGREGIELAFDEWLAGVPGKRQVLKDRRGRVIKDVQVTKNAKPGKTLALSIDLRLQYLAHREL
RNALLENGAKAGSLVIMDVKTGEILAMTNQPTYNPNNRRNLQPAAMRNRAMIDVFEPGSTVKPFS
MSAALASGRWKPSDIVDVYPGTLQIGRYTIRDVSRNSRQLDLTGILIKSSNVGISKIAFDIGAESIYSVM
QQVGLGQDTGLGFPGERVGNLPNHRKWPKAETATLAYGYGLSVTAIQLAHAYAALANDGKSVPLSM
TRVDRVPDGVQVISPEVASTVQGMLQQVVEAQGGVFRAQVPGYHAAGKSGTARKVSVGTKGYRENA
YRSLFAGFAPATDPRIAMVVVIDEPSKAGYFGGLVSAPVFSKVMAGALRLMNVPPDNLPTATEQQQV
NAAPAKGGRG
111111111111110000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111111111000000000000000000000001111
100000000000000000000000000011111111111111111111
>O75191_4bc2_0_535
MAEHAPRRCCLGWDFSTQQVKVVAVDAELNVFYEESVHFDRDLPEFGTQGGVHVHKDGLTVTSPV

LMWVQALDIILEKMKASGFDFSQVLALSGAGQQHGSIYWKAGAQQALTSLSPDLRLHQQLQDCFSIS
DCPVWMDSSTTAQCRQLEAAVGGAQALSCLTGSRAYERFTGNQIAKIYQQNPEAYSHTERISLVSSFA
ASLFLGSYSPIDYSDGSGMNLLQIQDKVWSQACLGACAPHLEEKLSPPVPSCSVVGAISSYYVQRYGFP
PGCKVVAFTGDNPASLAGMRLEEGDIAVSLGTSDTLFLWLQEPMPALEGHIFCNPVDSQHYMALLCF
KNGSLMREKIRNESVSRSWSDFSKALQSTEMGNGGNLGFYFDVMEITPEIIGRHRFNTENHKVAAF
PGDVEVRALIEGQFMAKRIHAEGLGYRVMSKTKILATGGASHNREILQVLADVFDAPVYVIDTANSA
CVGSAYRAFHGLAGGTDVPFSEVVKLAPNPRLAATPSPGASQVYEALLPQYAKLEQRILSQTRGPPE
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111
>P51691_1hdh_0_535
MSKRPNFLVIVADDLGFSDIGAFGGEIATPNLDALAIAGLRLTDFHTASTCSPTRSMLLTGTDHHIAGI
GTMAEALTPELEGKPGYEGHLNERVVALPELLREAGYQTLMAGKWHLGLKPEQTPHARGFERSFSL
LPGAANHYGFEPPYDESTPRILKGTPALYVEDERYLDTLPEGFYSSDAFGDKLLQYLKERDQSRPFFA
YLPFSAPHWPLQAPREIVEKYRGRYDAGPEALRQERLARLKELGLVEADVEAHPVLALTREWEALE
DEERAKSARAMEVYAAMVERMDWNIGRVVDYLRRQGELDNTFVLFMSDNGAEGALLEAFPKFGP
DLLGFLDRHYDNSLENIGRANSYVWYGPRWAQAATAPSRLYKAFTTQGGIRVPALVRYPRLSRQGAI
SHAFATVMDVTPTLLDLAGVRHPGKRWRGREIAEPRGRSWLGWLSGETEAAHDENTVTGWELFG
MRAIRQGDWKAVYLPAPVGPATWQLYDLARDPGEIHDLADSQPGKLAELIEHWKRYVSETGVVEGA
SPFLVR
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000111111111
>Q945K2_1ju2_27_562
LATTSDHDFSYLSFAYDATDLELEGSYDYVIVGGGTSGCPLAATLSEKYKVLVLERGSLPTAYPNVLTA
DGFVYNLQQEDDGKTPVERFVSEDGIDNVRGRVLGGTSIINAGVYARANTSIYSASGVDWDMDLVNQ
TYEWVEDTIVYKPNSQSWQSVTKTAFLEAGVHPNHGFSLDHEEGTRITGSTFDNKGTRHAADELLN
KGNSNNLRVGVHASVEKIIFSNAPGLTATGVIYRDSNGTPHQAFVRSKGEVIVSAGTIGTPQLLLLSGV
GPESYLSSLNIPVVLSHPYVGQFLHDNPRNFINILPPNPIEPTIVTVLGISNDFYQCSFSSLPFTTPPFGF
FPSASYPLPNSTFAHFASKVAGPLSYGSLTLKSSSNVRVSPNVKFNYYSNLTDLSHCVSGMKKIGELLS
TDALKPYKVEDLPGVEGFNILGIPLPKDQTDDAAFETFCRESVASYWHYHGGCLVGKVLDGDFRVTG
INALRVVDGSTFPYTPASHPQGFYLMLGRYVGIKILQERSASDLKILDSLKSAASLVL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000111111111111111
>Q8A5P5_3sgg_22_556
AGVVVPKYTPSTENPGGPGEEPGDGLIDPAEPLDRGFMHLKGRELKSLNSISITGLNDGEKVILSTLA
GLAARVTGDQVYINEGGPSSVWLKQMQNKYGIPVNTYNALAPLVQHYVETGVIKGYIVYTPYSEGQS
HSINVATSLCGLLRGIAVPESLVDKVKAMGVTTELMDVRSYDEKWLYENYKDQLDKSLAADMKPEIF
HHLRDYITMTNAFAFYDYNARRDWSWRTSILKDLDKGAYCFGYYDLDEWGMVNNASQLGVSMLP
TDQAANLATLSSIYDTTGLKQRPATKEVVTEENVHYVTFLVSDGDNIAFNLWGQQGYMDHDLHGQF
PLGYTISPSLYDLAPAALRWYYENSKEGDYFVAGPSGSSYIFPSKMSDADLDDYLAKLNEYVDKSGLN
ICNILDQKIMDNPKVYNKYLAQPNIDAIFYTGYGEKGDGRIKFSDNGKPVIEQRSVLWEGIDGGSNRG
EESTVISQINSRSANPHSADGYTFVFVHCWTKNQQSIKTVIDGLNDNVRVVPVDQFVQLVKQNLGPK
111111111111111111111110000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>Q13WK4_2y52_0_530
MTELLKNHVAGQWIAGTGAGITLTDPVTGVALVRVSSEGLDLARAFSFAREDGGAALRALTYAQRAA
RLADIVKLLQAKRGDYYAIATANSGTTRNDSAVDIDGGIFTLSYYAKLGASLGEVHALRDGSAESLSKD
RSFSAQHVLSPTRGVALFINAFNFPSWGLWEKAAPALLSGVPVIVKPATATAWLTQRMVADVVDAGI
LPPGALSIICGSSAGLLDQIRSFDVVSFTGSADTAATLRAHPAFVQRGARLNVEADSLNSAILCADATP
DTPAFDLFIKEVVREMTVKSGQKCTAIRRAFVPEAALEPVLEALKAKLAKITVGNPRNDAVRMGSLV
SREQYENVLAGIAALREEAVLAYDSSAVPLIDADANIAACVAPHLFVVNDPDNATLLHDVEVFGPVAS
VAPYRVTTDTNALPEAHAVALARRGQGSLVASIYSNDDAHLGRLALELADSHGRVHAISPSVQHSQT
GHGNVMPMSLHGGPGRAGGGEELGGLRALAFYHRRSAIQAASAAIGTLTQATHWPAA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000110000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111
>Q8KI25_2r0c_0_528
MNAPIETDVLILGGGPVGMALALDLAHRQVGHLVVEQTDGTITHPRVGTIGPRSMELFRRWGVAKQI
RTAGWPGDHPLDAAWVTRVGGHEVYRIPLGTADTRATPEHTPEPDAICPQHWLAPLLAEAVGERL
RTRSRLDSFEQRDDHVRATITDLRTGATRAVHARYLVACDGASSPTRKALGIDAPPRHRTQVFRNILF

RAPELRSLLGERAALFFFLMLSSSLRFPLRALDGRGLYRLTVGVDDASKSTMDSFELVRRAVAFDTEI
EVLSDSEWHLTHRVADSFSAGRVFLTGDAAHTLSPSGGFGMNTGIGSAADLGWKLAATLRGWAGPG
LLATYEEERRPVAITSLEEANVNLRRTMDRELPPGLHDDGPRGERIRAAVAEKLERSGARREFDAPG
IHFGHTYRSSIVCGEPETEVATGGWRPSARPGARAPHAWLTPTTSTLDLFGRGFVLLSFGTTDGVEA
VTRAFADRHVPLETVTCHAPEIHALYERAHVLVRPDGHVAWRGDHLPAELGGLVDKVRGAA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111111000000000000000000000000000000000000000000000001111111110
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>P20906_1q6z_0_527
MASVHGTTYELLRRQGIDTVFGNPGSNELPFLKDFPEDFRYILALQEACVVGIADGYAQASRKPAFIN
LHSAAGTGNAMGALSNAWNSHSPLIVTAGQQTRAMIGVEALLTNVDAANLPRPLVKWSYEPASAAE
VPHAMSRAIHMASMAPQGPVYLSVPYDDWDKDADPQSHHLFDRHVSSSVRLNDQDLDILVKALNS
ASNPAIVLGPDVDAANANADCVMLAERLKAPVWVAPSAPRCPFPTRHPCFRGLMPAGIAAISQLLEG
HDVVLVIGAPVFRYHQYDPGQYLKPGTRLISVTCDPLEAARAPMGDAIVADIGAMASALANLVEESSR
QLPTAAPEPAKVDQDAGRLHPETVFDTLNDMAPENAIYLNESTSTTAQMWQRLNMRNPGSYYFCA
AGGLGFALPAAIGVQLAEPERQVIAVIGDGSANYSISALWTAAQYNIPTIFVIMNNGTYGALRWFAGVL
EAENVPGLDVPGIDFRALAKGYGVQALKADNLEQLKGSLQEALSAKGPVLIEVSTVSPVK
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000111
>P42251_2yeq_56_582
APNFSSYPFTLGVASGDPLSDSVVLWTRLAPDPLNGGGMPKQAVPVKWEVAKDEHFRKIVRKGTEM
AKPSLAHSVHVEADGLEPNKVYYYRFKTGHELSPVGKTKTLPAPGANVPQMTFAFASCQQYEHGYY
TAYKHMAKEKLDLVFHLGDYIYEYGPNEYVSKTGNVRTHNSAEIITLQDYRNRHAQYRSDANLKAA
HAAFPWVVTWDDHEVENNYANKIPEKGQSVEAFVLRRAAAYQAYYEHMPLRISSLPNGPDMQLYR
HFTYGNLASFNVLDTRQYRDDQANNDGNKPPSDESRNPNRTLLGKEQEQWLFNNLGSSTAHWNV
LAQQIFFAKWNFGTSASPIYSMDSWDGYPAQRERVINFIKSKNLNNVVVLTGDVHASWASNLHVDF
EKTSSKIFGAEFVGTSITSGGNGADKRADTDQILKENPHIQFFNDYRGYVRCTVTPHQWKADYRVM
PFVTEPGAAISTRASFVYQKDQTGLRKVSSTTIQGGVKQSDEVEEDRFFSHNKAHEKQMIKKRAKIT
N
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000011111
>Q04912_4fww_41_567
VKYVVPSFSAGGLVQAMVTYEGDRNESAVFVAIRNRLHVLGPDLKSVQSLATGPAGDPGCQTCAACG
PGPHGPPGDTDTKVLVLDPALPALVSCGSSLQGRCFLHDLEPQGTAVHLAAPACLFSAHHNRPDDCP
DCVASPLGTRVTVVEQGQASYFYVASSLDAAVAASFSPRSVSIRRLKADASGFAPGFVALSVLPKHLVS
YSIEYVHSFHTGAFVYFLTVQPASVTDDPSALHTRLARLSATEPELGDYRELVLDCRFAPKRRRRGAP
EGGQPYPVLRVAHSAPVGAQLATELSIAEGQEVLFGVFVTGKDGGPGVGPNSVVCAFPIDLLDTLIDE
GVERCCESPVHPGLRRGLDFFQSPSFCPNPPGLEALSPNTSCRHFPLLVSSSFSRVDLFNGLLGPVQVT
ALYVTRLDNVTVAHMGTMDGRILQVELVRSLNYLLYVSNFSLGDSGQPVQRDVSRLGDHLLFASGDQ
VFQVPIQGPGCRHFLTCGRCLRAWHFMGCGWCGNMCGQQKECPGSWQQDHCP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000111111111100000000000
00000000000000000000000000000111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000
>Q5F2I3_3fo3_28_552
EPGENLKPVDAMQCFDCHTQIEDMHTVGKHATVNCVHCHDATEHVETASSRRMGERPVTRMDLE
ACATCHTAQFNSFVEVRHESHPRLEKATPTSRSPMFDKLIAGHGFAFEHAEPRSHAFMLVDHFVVD
RAYGGRFQFKNWQKVTDGMGAVRGAWTVLTDADPESSDQRRFLSQTATAANPVCLNCKTQDHILD
WAYMGDEHEAAKWSRTSEVVEFARDLNHPLNCFMCHDPHSAGPRVVRDGLINAVVDRGLGTYPH
DPVKSEQQGMTKVTFQRGREDFRAIGLLDTADSNVMCAQCHVEYNCNPGYQLSDGSRVGMDDRRA
NHFFWANVFDYKEAAQEIDFFDFRHATTGAALPKLQHPEAETFWGSVHERNGVACADCHMPKVQ
LENGKVYTSHSQRTPRDMMGQACLNCHAEWTEDQALYAIDYIKNYTHGKIVKSEYWLAKMIDLFPV
AKRAGVSEDVLNQARELHYDAHLYWEWWTAENSVGFHNPDQARESLMTSISKSKEAVSLLNDAID
AQVASR
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000011
>A6LG40_4fj6_19_540
ADSIYVREQQIPILIDRIDNVLYEMRIPAQKGDVLNEITIQIGDNVDLSDIQAIRLFYSGVEAPSRKGEH
FSPVTYISSHIPGNTRKALESYSVRQDEVTAPLSRTVKLTSKQPMLKGINYFWVSIQMKPETSLLAKV
ATTMPNAQINNKPINITWKGKVDERHVGIGVRQAGDDGSAAFRIPGLVTTNNGTLLGVYDIRYNSSV
DLQEKIDIGVSRSTDKGQTWEPMRVAMTFKQTDGLPHGQNGVGDPSILVDEKTNTIWVVAAWTHG

MGNERAWWNSMPGMTPDETAQLMLVKSEDDGKTWSEPINITSQVKDPSWYFLLQGPGRGITMQD
GTLVFPIQFIDATRVPNAGIMYSKDRGKTWHLHNLARTNTTEAQVAEVEPGVLMLNMRDNRGGSR
AVATTKDLGKTWTEHPSSRSALQESVCMASLIKVNAKDNITGKDLLLFSNPNTTKGRNHITIKASLD
GGLTWPTEHQVLLDEAEGWGYSCLSMIDKETVGIFYESSVAHMTFQAVKLQDLIHQ
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000001
>Q9VRD9_3pc3_0_521
MPQPKPYERPADFIDPGKPSKCKWHLGTAEKSPHIHRGIAHRQQITPNILEVIGCTPLVKLNNIPASD
GIECEMYAKCEFLNPGGSVKDRIGYRMVQDAEEQGLLKPGYTIIEPTSGNTGIGLAMACAVKGYKCIIV
MPEKMSNEKVSALRTLGAKIIRTPTEAAYDSPEGLIYVAQQLQRETPNSIVLDQYRNAGNPLAHYDG
TAAEILWQLDNKVDMIVVSAGTAGTISGIGRKIKEQVPSCQIVGVDPYGSILARPAELNKTDVQFYEVE
GIGYDFPPTVFDDTVVDVWTKIGDSDCFPMSRRLNAEEGLLCGGSSGGAMHAALEHARKLKKGQRC
VVILPDGIRNYMTKFVSDNWMEARNFKEPVNEHGHWWWSLAIAELELPAPPVILKSDATVGEAIA
LMKKHRVDQLPVVDQDDGSVLGVVGQETLITQIVSMNRQQSDPAIKALNKRVIRLNESEILGKLARV
LEVDPSVLILGKNPAGKVELKALATKLDVTTFIAAGKQKPKANGTTNGGSH
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000111111111111
>Q59675_1us2_85_605
VAASEGNVVIEVDMANGWRGNASGSTSHSGITYSADGVTFAALGDGVGAVFDIARPTTLEDAVIAMV
VNVSAEFKASEANLQIFAQLKEDWSKGEWDCLAASSELTADTDLTLTCTIDEDDDKFNQTARDVQVG
IQAKGTPAGTITIKSVTITLAQEAYSANVDHLRDLAPSDFPIGVAVSNTDSATYNLLTNSREQAVVKKH
FNHLTAGNIMKMSYMQPTEGNFNFTNADAFVDWATENNMTVHGHALVWHSDYQVPNFMKNWA
GSAEDFLAALDTHITTIVDHYEAKGNLVSWDVVNEAIDDNSPANFRTTDSAFYVKSGNSSVYIERAF
QTARAADPAVILYYNDYNIEQNNAKTTKMVDMVKDFQARSIPIDGVGFQMHVCMNYPSIANISAAM
KKVVDLGLLVKITELDVAVNQPHCDAYPANKINPLTEAAQLAQKKRYCDVVKAYLDTVPVNQRGGIS
VWGTTDANTWLDGLYREQFEDEKISWPLLFDNNYNDKPALRGFADALIGTQCTNTH
1111111110000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001100000000000000000000000000000000
0000000000011100000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000
>P51584_2w5f_31_550
ADYEVVHDTFEVNFDGWCNLGVDTYLTAVENEGNNGTRGMMVINRSSASDGAYSEKGFYLDGGVE
YKYSVFVKHNGTGTETFKLSVSYLDSETEEENKEVIATKDVVAGEWTEISAKYKAPKTAVNITLSITT
DSTVDFIFDDVTITRKGMAEANTVYAANAVLKDMYANYFRVGSVLNSGTVNNSSIKALILREFNSITC
ENEMKPDATLVQSGSTNTNIRVSLNRAASILNFCAQNNIAVRGHTLVWHSQTPQWFFKDNFQDNG
NWVSQSVMDQRLESYIKNMFAEIQRQYPSLNLYAYDVVNEAVSDDANRTRYYGGAREPGYGNGRSP
WVQIYGDNKFIEKAFTYARKYAPANCKLYYNDYNEYWDHKRDCIASICANLYNKGLLDGVGMQSHIN
ADMNGFSGIQNYKAALQKYINIGCDVQITELDISTENGKFSLQQQADKYKAVFQAAVDINRTSSKGKV
TAVCVWGPNDANTWLGSQNAPLLFNANNQPKPAYNAVASIIPQSEWGDGNNPA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>Q9ZBA9_1ei5_0_519
MSKFDTSALEAFVRHIPQNYKGPGGVVAVVKDGEVVLQHAWGFADLRTRTPMTLDTRMPICSVSKQ
FTCAVLLDAVGEPELLDDALEAYLDKFEDERPAVRDLCNNQSGLRDYWALSVLCGADPEGVFLPAQA
QSLLRRLKTTHFEPGSHYSYCNGNFRILADLIEAHTGRTLVDILSERIFAPAGMKRAELISDTALFDEC
TGYEGDTVRGFLPATNRIQWMGDAGICASLNDMIAWEQFIDATRDDESGLYRRLSGPQTFKDGVAA
PYGFGLNLHETGGKRLTGHGGALRGWRCQRWHCADERLSTIAMFNFEGGASEVAFKLMNIALGVSS
SEVSRVEADSAWFGSWLDDETGLVLSLEDAGHGRMKARFGTSPEMMDVVSANEARSAVTTIRRDG
ETIELVRASENLRLSMKRVKGEAKHDIIGRYHSDELDADLLLVSEGGAIYGAFEGFLGKSDMYPLYSVG
SDVWLLPVQRSMDAPSPGEWKLVFRRDDKGEITGLSVGCWLARGVEYRRVQP
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>Q55168_3zq5_0_513
MATTVQLSDQSLRQLETLAIHTAHLIQPHGLVVVLQEPDLTISQISANCTGILGRSPEDLLGRTLGEVF
DSFQIDPIQSRLTAGQISSLNPSKLWARVMGDDFVIFDGVFHRNSDGLLVCELEPAYTSDNLPFLGFYH
MANAALNRLRQQANLRDFYDVIVEEVRRMTGFDRVMLYRFDENNHGDVIAEDKRDDMEPYLGLH
YPESDIPQPARRLFIHNPIRVIPDVYGVAVPLTPAVNPSTNRAVDLTESILRSAYHCHLTYLKNMGVGAS
LTISLIKDGHLWGLIACHHQTPKVIPFELRKACEFFGRVVFSNISAQEDTETFDYRVQLAEHEAVLLD
KMTTAADFVEGLTNHPDRLLGLTGSQGAAICFGEKLILVGETPDEKAVQYLLQWLENREVQDVFFTS
SLSQIYPDAVNFKSVASGLLAIPIARHNFLLWFRPEVLQTVNWGGDPNHAYEATQEDGKIELHPRQS

FDLWKEIVRLQSLPWQSVEIQSALALKKAIVNLILRQAEE
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>Q9SQT8_2o7s_89_602
VKNPSLICAPVMADSIDKMVIETSKAHELGADLVEIRLDWLKDFNPLEDLKTIIKKSPLPTLFTYRPK
WEGGQYEGDENERRDVLRLAMELGADYIDVELQVASEFIKSIDGKKPGKFKVIVSSHNYQNTPSVED
LDGLVARIQQTGADIVKIATTAVDIADVARMFHITSKAQVPTIGLVMGERGLMSRILCSKFGGYLTFGT
LDSSKVSAPGQPTIKDLLDLYNFRRIGPDTKVYGIIGKPVSHSKSPIVHNQAFKSVDFNGVYVHLLVDN
LVSFLQAYSSSDFAGFSCTIPHKEAALQCCDEVDPLAKSIGAVNTILRRKSDGKLLGYNTDCIGSISAIE
DGLRSSGDPSSVPSSSSPLASKTVVVIGAGGAGKALAYGAKEKGAKVVIANRTYERALELAEAIGGKAL
SLTDLDNYHPEDGMVLANTTSMGMQPNVEETPISKDALKHYALVFDAVYTPRITRLLREAEESGAIT
VSGSEMFVRQAYEQFEIFTGLPAPKELYWQIMSKY
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000111111111
11111111110000000000000000000000010000000000000000000010000000000110000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>P11349_1q16_0_511
MKIRSQVGMVLNLDKCIGCHTCSVTCKNVWTSREGVEYAWFNNVETKPGQGFPTDWENQEKYKG
GWIRKINGKLQPRMGNRAMLLGKIFANPHLPGIDDYYEPFDFDYQNLHTAPEGSKSQPIARPRSLIT
GERMAKIEKGPNWEDDLGGEFDKLAKDKNFDNIQKAMYSQFENTFMMYLPRLCEHCLNPACVATC
PSGAIYKREEDGIVLIDQDKCRGWRMCITGCPYKKIYFNWKSGKSEKCIFCYPRIEAGQPTVCSETCV
GRIRYLGVLLYDADAIERAASTENEKDLYQRQLDVFLDPNDPKVIEQAIKDGIPLSVIEAAQQSPVYKM
AMEWKLALPLHPEYRTLPMVWYVPPLSPIQSAADAGELGSNGILPDVESLRIPVQYLANLLTAGDTK
PVLRALKRMLAMRHYKRAETVDGKVDTRALEEVGLTEAQAQEMYRYLAIANYEDRFVVPSSHREL
AREAFPEKNGCGFTFGDGCHGSDTKFNLFNSRRIDAIDVTSKTEPHP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000111
>A7ASX7_3nrr_0_510

MSNSYEGCGDLTIFVAVALNKVIGHKNQIPWPHITHDFRFLRNGTTYIPPEVLSKNPDIQNVVIFGRK
TYESIPKASLPLKNRINVILSRTVKEVPGCLVYEDLSTAIRDLRANVPHNKIFILGGSFLYKEVLDNGLC
DKIYLTRLNKEYPGDTYFPDIPDTFEITAISPTFSTDFVSYDFVIYERKDCKTVFPDPPFDQLLMTGTD
ISVPKPKYVACPGVRIRNHEEFQYLDILADVLSHGVLKPNRTGTDAYSKFGYQMRFDLSRSFPLLTTK
KVALRSIIEELLWFIKGSTNGNDLLAKNVRIWELNGRRDFLDKNGFTDREEHDLGPIYGFQWRHFG
AEYLDMHADYTGKGIDQLAEIINRIKTNPNDRRLIVCSWNVSDLKKMALPPCHCFFQFYVSDNKLSC
MMHQRSCDLGLGVPFNIASYSILTAMVAQVCGLGLGEFVHNLADAHIYVDHVDAVTTQIARIPHPFP
RLRLNPDIRNIEDFTIDDIVVEDYVSHPPIPMAMSA
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000111111000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>A6L2F0_4f7a_27_536
DNKINGSFDDTVKEYDFQKYTTNFETIQKGIYFNYDWGEGTTWPWQTFQNLNHDMFSGYFHDFAS
KFSDKNTVYALEAGWTASAWNYTYNYIFPVAHKSTLITQDEAKYKHFYGATLILKVEAMHRITDTYG
PIVYSKFGKNETNSVDTQEEAYKAFFDDLDKAVDALDTYLKEGGKEDGVKSINMCNCPTASRWIKFA
NSLRLRLAMRVSNVDKTLATSEAQKALENSYGVIESSDENIQISGKGYQNPLAGVAGWGETYMGATI
ASVLNGYEDPRISIYYNPATLAEHTEEYLGVPQGVYAKDGDPNYYQSYSFINTQTITASTPAVLLTAAE
TWFLRAEASLRGINPKNESAKQCYEAGVQTSFSQWGAGDASLYLTSKGKPTDYINYAAGPGKDMKAL
ITTTPNFDDAVNQEEQLEKIITQKWIACWPEGMEAWAEQRRTGYPKLFKVQTNNSNGTIDTDIMIR
RLPFSQDDAKKDPEQYKNLCTALGGADNGGTRLWWDTGKNNF
11111111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000
>A7M4E1_4eps_25_533
EEEVPGNVRNGIVLNVTDTGIISNEPSTRTEDTGFVTTFTQGDQIGLFAVKDGAILDEINNMPFTFNG
SSWSGKPILYDDRLVGVNFYAYYPYQSEMTGKTDLIGDDFFAPLAAGWELTTEQSDQKAYAKQDLMT
SNATALIGENGNYSLSFQLTHRMSLVVVKLPSTRYIFTDAEGVAMPEETPYVAMSVDVAFYLDNVEEG
TKISPYYDAKKDEYRLLRKPSSENQIIGHYNDKQCTLDTAEKMKEGKYKRFVVDGGYKEVTHHLQV
GDYYYADGSVVSGNEAEPAKDNCIGIVCWVGNPMPSVLYKDVAGTPYTATNDALLRSHPNCVHGLV
MSLYTETGKFSPALTQSIHDWFMTTSFTSSYVSVTGYYDANENNKNKPLRFLGYNNSEVLDLYYDTF
KTDFECFQYQDDCESSFPSPSITTGWYVPSSGELVALQDKDNSLESKLNTKLIKVSDKTMDISATYWS
STERNNKNMYIVTYSKTAGSAGTGGVKTNTYTYRFFLGF
11111100000000000000000011111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000000000
>P06681_2odp_243_751
KIQIQRSGHLNLYLLLDCSQSVSENDFLIFKESASLMVDRIFSFEINVSVAIITFASEPKVLMSVLNDNS
RDMTEVISSLENANYKDHENGTGTNTYAALNSVYLMMNNQMRLLGMETMAWQEIRHAIILLTDGK
SNMGGSPKTAVDHIREILNINQKRNDYLDIYAIGVGKLDVDWRELNELGSKKDGERHAFILQDTKAL
HQVFEHMLDVSKLTDTICGVGNMSANASDQERTPWHVTIKPKSQETCRGALISDQWVLTAAHCFRD
GNDHSLWRVNVGDPKSQWGKEFLIEKAVISPGFDVFAKKNQGILEFYGDDIALLKLAQKVKMSTHA
RPICLPCTMEANLALRRPQGSTCRDHENELLNKQSVPAHFVALNGSKLNINLKMGVEWTSCAEVVS
QEKTMFPNLTDVREVVTDQFLCSGTQEDESPCKGESGGAVFLERRFRFFQVGLVSWGLYNPCLGSAD
KNSRKRAPRSKVPPPRDFHINLFRMQPWLRQHLGDVLNFLPL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011110000000000000000000111111110000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000001111100000000000000000000000000000
000000000011
>Q6F6A2_3umv_0_505
MPPTSVSPPRTAPGPANPSPAHPSRVRVIHPGGGKPGGPVVYWMLRDQRLADNWALLHAAGLAAA
SASPLAVAFALFPRPFLLSARRRQLGFLLRGLRRLAADAAARHLPFFLFTGGPAEIPALVRRLGASTLV
ADFSPLRPVREALDAVVGDLRREAPGVAVHQVDAHNVVPVWTASAKMEYSAKTFRGKVSKVMDEY
LVEFPELPAVVPWDREQPEGVDWDALIARVCSEAENVPEIDWCEPGEEAAIEALLGSKDGFLTKRIK
SYETDRNDPTKPRALSGLSPYLHFGHISAQRCALEAKKCRHLSPKSVDAFLEELVVRRELADNFCYY
QPQYDSLSGAWEWARKTLMDHAADKREHIYTREQLENAKTHDPLWNASQLEMVHHGKMHGFM
RMYWAKKILEWTSGPEEALSTAIYLNDKYEIDGRDPSGYVGCMWSICGLHDQGWKERPVFGKIRYM
NYAGCKRKFDVDAYISYVKRLAGQSKKRNAEESPNPVVKLSKSQH
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000001111111
111111111
>B3EY95_4eu8_0_504
MTERIRNVALRSKVCPAETASELIKHGDVVGTSGFTGAGYPKEVPKALAQRMEAAHDRGEKYQISLIT
GASTGPQLDGELAKANGVYFRSPFNTDATMRNRINAGETEYFDNHLGQVAGRAVQGNYGKFNIALV
EATAITEDGGIVPTSSVGNSQTFLNLAEKVIIEVNEWQNPMLEGIHDIWDGNVSGVPTRDIVPIVRAD

QRVGGPVLRVNPDKIAAIVRTNDRDRNAPFAAPDETAKAIAGYLLDFFGHEVKQNRLPPSLLPLQSG
VGNVANAVLEGLKEGPFENLVGYSEVIQDGMLAMLDSGRMRIASASSFSLSPEAAEEINNRMDFFRS
KIILRQQDVSNSPGIIRRLGCIAMNGMIEADIYGNVNSTRVMGSKMMNGIGGSGDFARSSYLSIFLSPS
TAKGGKISAIVPMAAHVDHIMQDAQIFVTEQGLADLRGLSPVQRAREIISKCAHPDYRPMLQDYFDR
ALKNSFGKHTPHLLTEALSWHQRFIDTGTMLPS
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000
>O09496_2x3h_0_504
MAKLTKPKTEGILHKGQSLYEYLDARVLTSKPFGAAGDATTDDTEVIAASLNSQKAVTISDGVFSSSGI
NSNYCNLDGRGSGVLSHRSSTGNYLVFNNPRTGRLSNITVESNKATDTTQGQQVSLAGGSDVTVSDV
NFSNVKGTGFSLIAYPNDAPPDGLMIKGIRGSYSGYATNKAAGCVLADSSVNSLIDNVIAKNYPQFGAV
ELKGTASYNIVSNVIGADCQHVTYNGTEGPIAPSNNLIKGVMANNPKYAAVVAGKGSTNLISDVLVDY
STSDARQAHGVTVEGSDNVINNVLMSGCDGTNSLGQRQTATIARFIGTANNNYASVFPSYSATGVITF
ESGSTRNFVEVKHPGRRNDLLSSASTIDGAATIDGTSNSNVVHAPALGQYIGSMSGRFEWRIKSMSLP
SGVLTSADKYRMLGDGAVSLAVGGGTSSQVRLFTSDGTSRTVSLTNGNVRLSTSSTGYLQLGADAMT
PDSTGTYALGSASRAWSGGFTQAAFTVTS
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000001
>Q4FVQ2_3hn7_0_504
MHIHILGICGTFMGSLALLARALGHTVTGSDANIYPPMSTQLEQAGVTIEEGYLIAHLQPAPDLVVVG
NAMKRGMDVIEYMLDTGLRYTSGPQFLSEQVLQSRHVIAVAGTHGKTTTTTMLAWILHYAGIDAGF
LIGGVPLVNTTDTNLQQVFAHSSYLGTEKDDSDNSVNTGYFVIEADEYDSAFFDKRSKFVHYRPRTAI
LNNLEFDHADIFADLDAIQTQFHHMVRMIPSTGKIIMPAATISLEDTLAKGVWTPIWRTSVIDSTISS
VRREDSPLENSQAENSSDWQAELISADGSQFTVSFNDNKEATALVNWSMSGLHNVNNALVAIAAAY
NIGVSVKTACAALSAFAGIKRRMELIGDVNDILVFDDFAHHPTAITTTLDGAKKKLADRRLWAIIEPRS
NTMKMGIHQDSLAQSATLADHTLWYEPTGLEWGLKEVIDNATIANPSIGSQQVLSSVDDIIKHICTH
AKAGDAIVIMSNGGFEGIHQRLLTALGNIVAIL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000001111
1100000000000000000000000000000000000000000000001111111111111111111
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000001
>Q92WS7_3v4c_0_504
MIFTPKGKHLVAGEWLDGAGTFASAPAHGPAHDFAVGTVELVNRACEAAEEAFWTYGYSSRKERAA
FLRAIADEIEARAEAITEIGSQETGLPEARLNGERGRTTGQLRLFADHIEKGDYLDRRVDAAMPERQP
APRQEIRLVQRPVGPVAVFGASNFPLAFSTAGGDTAAALAAGCPVVVKGHSAHPGTGEIVAEAVDAAI
RKTGVHPGVFSLIQGGSRDVGHALVQHPHIKAVGFTGSLAGGRALFDLCAARPEPIPFFGELGSVNPM
FLLPEALKARAETLGQGWAGSLTMGAGQFCTNPGIAVVIEGADADRFTTAAVEALAKVAPQTMLTD
GIAKAYRDGQARFATRNAVKPLLATESSGRDASPNLFETTGAQFLADHALGEEVFGPLGLVVRVGSPA
EMEELARGFQGQLTATIHMDAGDLETARRLRPVLERKAGRVLVNGFPTGVEVVDSMVHGGPYPAST
NFGATSVGTMSIRRFLRPVAYQNMPEDLLPEDFLG
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000011
>P33590_1uiv_22_523
AAPDEITTAWPVNVGPLNPHLYTPNQMFAQSMVYEPLVKYQADGSVIPWLAKSWTHSEDGKTWTF
TLRDDVKFSNGEPFDAEAAAENFRAVLDNRQRHAWLELANQIVDVKALSKTELQITLKSAYYPFLQ
ELALPRPFRFIAPSQFKNHETMNGIKAPIGTGPWILQESKLNQYDVFVRNENYWGEKPAIKKITFNV
IPDPTTRAVAFETGDIDLLYGNEGLLPLDTFARFSQNPAYHTQLSQPIETVMLALNTAKAPTNELAVR
EALNYAVNKKSLIDNALYGTQQVADTLFAPSVPYANLGLKPSQYDPQKAKALLEKAGWTLPAGKDIR
EKNGQPLRIELSFIGTDALSKSMAEIIQADMRQIGADVSLIGEEESSIYARQRDGRFGMIFHRTWGAPY
DPHAFLSSMRVPSHADFQAQQGLADKPLIDKEIGEVLATHDETQRQALYRDILTRLHDEAVYLPISYI
SMMVVSKPELGNIPYAPIATEIPFEQIKPVKP
11100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00011
>P13134_2id4_113_612
APPMDSSLLPVKEAEDKLSINDPLFERQWHLVNPSFPGSDINVLDLWYNNITGAGVVAAIVDDGLDY
ENEDLKDNFCAEGSWDFNDNTNLPKPRLSDDYHGTRCAGEIAAKKGNNFCGVGVGYNAKISGIRILS
GDITTEDEAASLIYGLDVNDIYSCSWGPADDGRHLQGPSDLVKKALVKGVTEGRDSKGAIYVFASGNG
GTRGDNCNYDGYTNSIYSITIGAIDHKDLHPPYSEGCSAVMAVTYSSGSGEYIHSSDINGRCSNSHGGT
SAAAPLAAGVYTLLLEANPNLTWRDVQYLSILSAVGLEKNADGDWRDSAMGKKYSHRYGFGKIDAH
KLIEMSKTWENVNAQTWFYLPTLYVSQSTNSTEETLESVITISEKSLQDANFKRIEHVTVTVDIDTEI

RGTTTVDLISPAGIISNLGVVRPRDVSSEGFKDWTFMSVAHWGENGVGDWKIKVKTTENGHRIDFH
SWRLKLFGESIDSSKTETFVFGNDKEEVE
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001111111111
111
>Q54276_1e15_0_498
MSTRKAVIGYYFIPTNQINNYTETDTSVVPFPVSNITPAKAKQLTHINFSFLDINSNLECAWDPATND
AKARDVVNRLTALKAHNPSLRIMFSIGGWYYSNDLGVSHANYVNAVKTPASRAKFAQSCVRIMKDY
GFDGVDIDWEYPQAAEVDGFIAALQEIRTLLNQQTITDGRQALPYQLTIAGAGGAFFLSRYYSKLAQIV
APLDYINLMTYDLAGPWEKVTNHQAALFGDAAGPTFYNALREANLGWSWEELTRAFPSPFSLTVD
AAVQQHLMMEGVPSAKIVMGVPFYGRAFKGVSGGNGGQYSSHSTPGEDPYPSTDYWLVGCEECVRD
KDPRIASYRQLEQMLQGNYGYQRLWNDKTKTPYLYHAQNGLFVTYDDAESFKYKAKYIKQQQLGGV
MFWHLGQDNRNGDLLAALDRYFNAADYDDSQLDMGTGLRYTGVGPGNLPIMTAPAYVPGTTYAQG
ALVSYQGYVWQTKWGYITSAPGSDSAWLKVGRVA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00
>Q9M426_3kal_0_498
MSQPLTTNSVLVEEAAADGDSSAAAPPLFDYHRIDQKLLQNIVYDALVWSTLNCLLVGDKSVQRSGR
VPGVGLVHLPLSLLPGPFPESHWKQGCELAPIFNELVDRVSLDGKFLQESLSRTKNADEFTSRLLDIH
SKMLQINKKEDIRMGIVRSDYMIDEKTKSLLQIEMNTISTSFALIGCLMTGLHKSLLSQYGKFLGLNS
NRVPANNAVDQSAEALAKAWSEYNNPRAAILVVVQVEERNMYEQHYISALLREKHHIRSIRKTLTEI
DQEGKILPDGTLSVDGQAISVVYFRAGYTPKDYPSESEWRARLLMEQSSAIKCPTISYHLVGTKKIQQ
ELAKPGVLERFVENKDHIAKLRACFAGLWSLEDSDIVKKAIENPELFVMKPQREGGGNNIYGDELRE
TLLKLQEAGSQEDAAYILMQRIFPATSPAILVRDGNWDTGHVISEAGIFGTYLRNKDKIIINNESGYMV
RTKISSSYEGGVLPGFGVVDTVYLT
11111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000001111100000000000
00000000000000000000000000000000000000000000000000000000000000000000
00

>Q8FBB1_3ive_21_518
AKDVTIIYTNDLHAHVEPYKVPWIADGKRDIGGWANITTLVKQEKAKNKATWFFDAGDYFTGPYIS
SLTKGKAIIDIMNTMPFDAVTIGNHEFDHGWDNTLLQLSQAKFPIVQGNIFYQNSSKSFWDKPYTIIE
KDGVKIGVIGLHGVFAFNDTVSAATRVGIEARDEIKWLQRYIDELKGKVDLTVALIHEGVPARQSSMG
GTDVRRALDKDIQTASQVKGLDILITGHAHVGTPEPIKVGNTLILSTDSGGIDVGKLVLDYKEKPHNF
TVKNFELKTIYADEWKPDQQTKQVIDGWNKKLDEVVQQTVAQSPVELKRAYGESASLGNLAADALL
AAAGKNTQLALTNSGGIRNEIPAGAITMGGVISTFPFPNELVTMELTGKQLRSLMEHGASLSNGVLQV
SKGLEMKYDSSKPVGQRVITLTLNGKPIEDATVYHIATQSFLADGGDGFTAFTEGKARNITGGYYVYH
AVVDYFKAGNTITDEQLNGMRVKDIK
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000111000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0
>P33197_2d1c_0_495
MPLITTETGKKMHVLEDGRKLITVIPGDGIGPECVEATLKVLEAAKAPLAYEVREAGASVFRRGIASG
VPQETIESIRKTRVVLKGPLETPVGYGEKSANVTLRKLFETYANVRPVREFPNVPTPYAGRGIDLVVV
RENVEDLYAGIEHMQTPSVAQTLKLISWKGSEKIVRFAFELARAEGRKKVHCATKSNIMKLAEGTLK
RAFEQVAQEYPDIEAVHIIVDNAAHQLVKRPEQFEVIVTTNMNGDILSDLTSGLIGGLGFAPSANIGNE
VAIFEAVHGSAPKYAGKNVINPTAVLLSAVMMLRYLEEFATADLIENALLYTLEEGRVLTGDVVGYDR
GAKTTEYTEAIIQNLGKTPRKTQVRGYKPFRLPQVDGAIAPIVPRSRRVVGVDVFVETNLLPEALGKA
LEDLAAGTPFRLKMISNRGTQVYPPTGGLTDLVDHYRCRFLYTGEGEAKDPEILDLVSRVASRFRWM
HLEKLQEFDGEPGFTKAQGED
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>Q66GI4_4g24_76_571
ASPSENLSRKAKKKAIQQSPEALLKQKLDMCSKKGDVLEALRLYDEARRNGVQLSQYHYNVLLYVCS
LAEAATESSPNPGLSRGFDIFKQMIVDKVVPNEATFTNGARLAVAKDDPEMAFDMVKQMKAFGIQP
RLRSYGPALFGFCRKGDADKAYEVDAHMVESEVVPEEPELAALLKVSMDTKNADKVYKTLQRLRDL
VRQVSKSTFDMIEEWFKSEVATKTGVKKWDVKKIRDAVVSGGGGWHGQGWLGTGKWNVKRTEM
DENGVCKCCKEKLVCIDINPVETETFAASLTRLACEREVKANFNQFQEWLERHGPFDAVIDGANMGL
VNQRSFSFFQLNNTVQRCQQISPSKRLPLVILHKSRVNGGPATYPKNRALLEKWKNAGALYATPPGS
NDDWYWLYAAVSCKCLLVTNDEMRDHLFQLLGNSFFPRWKEKHQVRISVTREDGLKLNMPPPYSI
VIQESEDGTWHVPMSVEDDLQTSRQWLCAKRSKTP
111111111111111111000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000011
>Q8VW87_3vss_36_531
QSGLQDGPEPTIHTQQAYAPEDDFTAKWTRADARQLQRMSDPTAPSRENSMPASVTMPTVPQDFP
DMSNEQVWVWDTWPLTDEDANQYSVNGWEIIFSLVADRNLGFDDRHVFAKIGYFYRPAGVPAAER
PENGGWTYGGLVFKEGVTGQIFEDQSFSHQTQWSGSARVSKNGEIKLFFTDVAFYRNSDGTNIKPYD
PRIALSVGKVKANKKGVTLTGFNKVTDLLQADGTYYQTGAQNEFFNFRDPFTFEDPAHPGETFMVF
EGNSAMQRETATCNEADLGYRQGDPYAETVDDVNASGATYQIGNVGLAKAKNKQLTEWEFLPPILS
ANCVTDQTERPQIYFKDGKSYLFTISHRGTFAAGLDGPEGVYGFVGDGIRSDYQPLNGGSGLALGNPT
NLNFLGGQPFAPDFNQHPGHFQAYSHYVMPGGLVQSFIDTIGTHDDFVRGGTLAPTVKMDIGVGGD
PTKTAVDYSYGSEGLGGWADIPANKHLFTNGKF
11000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>Q5SJM0_3oep_0_493
MVRGFYLRFGEGVSEEANRRALALAEALLRAPPPGLLDAVPAYGVLYLEYDPRRLSRGRLLRLLKGLP
QERAEEGRVVEIPVRYDGEDLPEVASRLGLSLEAVKALHQKPLYRVYALGFTPGFPFLAEVEPALRLP
RKPHPRPRVPAHAVAVAGVQTGIYPLPSPGGWNLLGTSLVAVYDPHRETPFLLRPGDRVRFLEAEGP
TPPEPRPLELLPEEPRLPALLVEEPGLMDLVVDGGRFLGGHLGLARSGPLDAPSARLANRLVGNGAG
APLLEFAYKGPVLTALRDLVAAFAGYGFVALLEGEEIPPGQSFLWPRGKTLRFRPRGPGVRGYLAVAGG
LEVRPFLGSASPDLRGRIGRPLWAGDVLGLEALRPVRPGRAFPQRPLPEAFRLRLLPGPQFAGEAFR
ALCSGPFRVARADRVGVELLGPEVPGGEGLSEPTPLGGVQVPPSGRPLVLLADKGSLGGYAKPALVDP
RDLWLLGQARPGVEIHFTSG
00000000000000000000000000000000000000000000000000000000000000000000000000000111
11110000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000001
>Q87NC6_2qma_464_957
IAAGGSHVEAAPQEEWKKHFIHTGELGSAEFASVMSHTTSAMKSVFEQVNAPYSGMDPKALEDAIN
AVDLDNKNAPLKSVIDDVAELVAKNAIFTQHPDCIAHLHTPPLMPAVAAEAMIAALNQSMDSWDQA
SSATYVEQKVVNWLCDKYDLSEKADGIFTSGGTQSNQMGLMLARDWIADKLSGHSIQKLGLPDYAD
KLRIVCSKKSHFTVQKSASWMGLGEKAVMTVDANADGTMDITKLDEVIAQAKAEGLIPFAIVGTAGT
TDHGAIDDLDFIADMAVKHDMWMHVDGAYGGALILSSHKSRLKGVERAHSISVDFHKLFYQTISCG
ALLVNDKSNFKFLLHHADYLNREHDELPNLVDKSIATTKRFDALKVFMTMQNVGPKALGDMYDHL

LAQTLEVADMIRTNDQFELLAEPSLSTVLFRATHETADLDELNKALRLEALTRGIAVLGETIVDGKTA
LKFTILNPCLTTSDFESLLSKINMLAVELV
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000111111111
11111111111000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>P13398_3a2p_0_492
MSKVDLWQDATAQAELVRSGEISRTELLEATIAHVQAVNPEINAVIIPLFEKARRESELASGPFAGVPY
LLKDLTVVSQGDINTSSIKGMKESGYRADHDAYFVQRMRAAGFVLLGKTNTPEMGNQVTTEPEAW
GATRNPWNLGRSVGGSSGGSGAAVAAALSPVAHGNDAAGSVRIPASVCGVVGLKPTRGRISPGPLVTD
SDNVAGAAHEGLFARSVRDIAALLDVVSGHRPGDTFCAPTASRPYAQGISENPGSLRVGVLTHNPVGD
FALDPECAAAARGAAAALAALGHDVNDAYPEALGDRSFLKDYSTICDVAIAREIERNGELIGRPLTED
DVEWTSWEMVKRADQVTGRAFAACVDELRYYAGKVERWWEAGWDLLILPTVTRQTPEIGELMLA
KGTDLEGRQSAFISGSLQMLAFTVPFNVSGQPAISLPIGMSSDGMPIGVQIVAAYGREDLLLQVAAQLE
GALPWVARRPQLLNPSRKIPAA
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000011111111
>Q9Y600_2jis_0_492
MADSEALPSLAGDPVAVEALLRAVFGVVVDEAIQKGTSVSQKVCEWKEPEELKQLLDLELRSQGESQ
KQILERCRAVIRYSVKTGHPRFFNQLFSGLDPHALAGRIITESLNTSQYTYEIAPVFVLMEEEVLRKLR
ALVGWSSGDGIFCPGGSISNMYAVNLARYQRYPDCKQRGLRTLPPLALFTSKECHYSIQKGAAFLGLG
TDSVRVVKADERGKMVPEDLERQIGMAEAEGAVPFLVSATSGTTVLGAFDPLEAIADVCQRHGLWL
HVDAAWGGSVLLSQTHRHLLDGIQRADSVAWNPHKLLAAGLQCSALLLQDTSNLLKRCHGSQASYL
FQQDKFYDVALDTGDKVVQCGRRVDCLKLWLMWKAQGDQGLERRIDQAFVLARYLVEEMKKREG
FELVMEPEFVNVCFWFVPPSLRGKQESPDYHERLSKVAPVLKERMVKEGSMMIGYQPHGTRGNFFR
VVVANSALTCADMDFLLNELERLGQDL
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>P0A636_3pny_0_489
MTATETVRVRFCPSPTGTPHVGLVRTALFNWAYARHTGGTFVFRIEDTDAQRDSEESYLALLDALR
WLGLDWDEGPEVGGPYGPYRQSQRAEIYRDVLARLLAAGEAYHAFSTPEEVEARHVAAGRNPKLGY

DNFDRHLTDAQRAAYLAEGRQPVVRLRMPDDDLAWNDLVRGPVTFAAGSVPDFALTRASGDPLYTL
VNPCDDALMKITHVLRGEDLLPSTPRQLALHQALIRIGVAERIPKFAHLPTVLGEGTKKLSKRDPQSN
LFAHRDRGFIPEGLLNYLALLGWSIADDHDLFGLDEMVAAFDVADVNSSPARFDQKKADALNAEHI
RMLDVGDFTVRLRDHLDTHGHHIALDEAAFAAAAELVQTRIVVLGDAWELLKFFNDDQYVIDPKAA
AKELGPDGAAVLDAALAALTSVTDWTAPLIEAALKDALIEGLALKPRKAFSPIRVAATGTTVSPPLFE
SLELLGRDRSMQRLRAARQLVGHA
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000011111
>Q0S4Q9_4at2_0_489
MVDATPIRPRSATTVTEWDYEADVVVAGYGIAGVAASIEAARAGADVLVLERTSGWGGAAALAGGFI
YLGGGTPLQKACGFDDSPENMKTFMMAALGPGADEEKITDYCEGSVEHYNWLVDCGVPFKESFWG
EPGWEPPFDDGLMYSGGENAAPFNEIATPAPRGHVPQMDGKRTGEKGGGYMLMKPLVETAEKLGV
RAEYDMRVQTLVTDDTGRVVGIVAKQYGKEVAVRARRGVVLATGSFAYNDKMIEAHAPRLIGRPGAA
IEEHDGRSILMAQALGADLAHMDATEVAFVCDPQLIVRGILVNGRGQRYVPEDTYSGRIGQMTLFHQ
DNQAFLIIDEASYEEGAAATTATPFLRVQPKWAAETVEELESDMGLPAGALQSTVEVYNKHAAEGSD
PLLHKKSEWVKPIGTPVAALDLRGFTLGFTLGGLRTTVNSEVLHVSGEPIPGLFAAGRCTSGVCAGGY
ASGTSLGDGSFYGRRAGISAAKQA
111111000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000001
>Q93LY7_2qa1_1_490
DAAVIVVGAGPAGMMLAGELRLAGVEVVVLERLVERTGESRGLGFTARTMEVFDQRGILPRFGEVET
STQGHFGGLPIDFGVLEGAWQAAKTVPQSVTETHLEQWATGLGADIRRGHEVLSLTDDGAGVTVEV
RGPEGKHTLRAAYLVGCDGGRSSVRKAAGFDFPGTAATMEMYLADIKGVELQPRMIGETLPGGMVM
VGPLPGGITRIIVCERGTPPQRRETPPSWHEVADAWKRLTGDDIAHAEPVWVSAFGNATRQVTEYR
RGRVILAGDSAHIHLPAGGQGMNTSIQDAVNLGWKLGAVVNGTATEELLDSYHSERHAVGKRLLMN
TQAQGLLFLSGPEVQPLRDVLTELIQYGEVARHLAGMVSGLEITYDVGTGSHPLLGKRMPALELTTAT
RETSSTELLHTARGVLLDLADNPRLRARAAAWSDRVDIVTAVPGEVSATSGLRDTTAVLIRPDGHVA
WAAPGSHHDLPMALERWFGAPLTG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000111110000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000
>Q8VPD4_2jb2_45_533
AGDLIGKVKGSHSVVVLGGGPAGLCSAFELQKAGYKVTVLEARTRPGGRVWTARGGSEETDLSGETQ
KCTFSEGHFYNVGATRIPQSHITLDYCRELGVEIQGFGNQNANTFVNYQSDTSLSGQSVTYRAAKAD
TFGYMSELLKKATDQGALDQVLSREDKDALSEFLSDFGDLSDDGRYLGSSRRGYDSEPGAGLNFGTE
KKPFAMQEVIRSGIGRNFSFDFGYDQAMMMFTPVGGMDRIYYAFQDRIGTDNIVFGAEVTSMKNVS
EGVTVEYTAGGSKKSITADYAICTIPPHLVGRLQNNLPGDVLTALKAAKPSSSGKLGIEYSRRWWETE
DRIYGGASNTDKDISQIMFPYDHYNSDRGVVVAYYSSGKRQEAFESLTHRQRLAKAIAEGSEIHGEKY
TRDISSSFSGSWRRTKYSESAWANWAGSGGSHGGAATPEYEKLLEPVDKIYFAGDHLSNAIAWQHG
ALTSARDVVTHIHERVAQEA
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000011111110000000000000000000000000000000000000000000000000001
>P36649_3qqx_28_515
AERPTLPIPDLLTTDARNRIQLTIGAGQSTFGGKTATTWGYNGNLLGPAVKLQRGKAVTVDIYNQLTE
ETTLHWHGLEVPGEVDGGPQGIIPPGGKRSVTLNVDQPAATCWFHPHQHGKTGRQVAMGLAGLVV
IEDDEILKLMLPKQWGIDDVPVIVQDKKFSADGQIDYQLDVMTAAVGWFGDTLLTNGAIYPQHAAP
RGWLRLRLLNGCNARSLNFATSDNRPLYVIASDGGLLPEPVKVSELPVLMGERFEVLVEVNDNKPFD
LVTLPVSQMGMAIAPFDKPHPVMRIQPIAISASGALPDTLSSLPALPSLEGLTVRKLQLSMDPMLDM
MGMQMLMEKYGDQAMAGMDHSQMMGHMGHGNMNHMNHGGKFDFHHANKINGQAFDMNKP
MFAAAKGQYERWVISGVGDMMLHPFHIHGTQFRILSENGKPPAAHRAGWKDTVKVEGNVSEVLVK
FNHDAPKEHAYMAHCHLLEHEDTGMMLGFTV
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000011
1111111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>P00727_2j9a_32_518
TKGLVLGIYSKEKEEDEPQFTSAGENFNKLVSGKLREILNISGPPLKAGKTRTFYGLHEDFPSVVVVGL
GKKTAGIDEQENWHEGKENIRAAVAAGCRQIQDLEIPSVEVDPCGDAQAAAEGAVLGLYEYDDLKQK
RKVVVSAKLHGSEDQEAWQRGVLFASGQNLARRLMETPANEMTPTKFAEIVEENLKSASIKTDVFIR
PKSWIEEQEMGSFLSVAKGSEEPPVFLEIHYKGSPNASEPPLVFVGKGITFDSGGISIKAAANMDLMR
ADMGGAATICSAIVSAAKLDLPINIVGLAPLCENMPSGKANKPGDVVRARNGKTIQVDNTDAEGRLI
LADALCYAHTFNPKVIINAATLTGAMDIALGSGATGVFTNSSWLWNKLFEASIETGDRVWRMPLFE
HYTRQVIDCQLADVNNIGKYRSAGACTAAAFLKEFVTHPKWAHLDIAGVMTNKDEVPYLRKGMAG
RPTRTLIEFLFRFSQDSA
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000011
>P05327_1owl_0_483
MAAPILFWHRRDLRLSDNIGLAAARAQSAQLIGLFCLDPQILQSADMAPARVAYLQGCLQELQQRYQ
QAGSRLLLLQGDPQHLIPQLAQQLQAEAVYWNQDIEPYGRDRDGQVAAALKTAGIRAVQLWDQLLH
SPDQILSGSGNPYSVYGPFWKNWQAQPKPTPVATPTELVDLSPEQLTAIAPLLLSELPTLKQLGFDW
DGGFPVEPGETAAIARLQEFCDRAIADYDPQRNFPAEAGTSGLSPALKFGAIGIRQAWRAASAAHALS
RSDEARNSIRVWQQELAWREFYQHALYHFPSLADGPYRSLWQQFPWENREALFTAWTQAQTGYPI
VDAAMRQLTETGWMHNRCWMIVASFLTKDLIIDWRRGEQFFMQHLVDGDLAANNGGWQWSASS
GMDPKPLRIFNPASQAKKFDATATYIKRWLPELRHVHPKDLISGEITPIGRRGYPAPIVNHNLRQKQF
KALYNQLKAAIAEPEAEPDS
11000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000111111111
>Q9N0F3_1wle_34_517
ATERQDRNLLYEHAREGYSALPLLDMESLCAYPEDAARALDLRKGELRSKDLPGIISTWQELRQLRE
QIRSLEEEKEAVTEAVRALVVNQDNSQVQQDPQYQSLRARGREIRKQLTLLYPKEAQLEEQFYLRALR
LPNQTHPDVPVGDESQARVLHVVGDKPAFSFQPRGHLEIAEKLDIIRQKRLSHVSGHRSYYLRGAGA
LLQHGLVNFTLNKLIHRGFTPMTVPDLLRGVVFEGCGMTPNAKPSQIYNIDPSRFEDLNLAGTAEVG
LAGYFMDHSVAFRDLPIRMVCSSTCYRAETDTGKEPWGLYRVHHFTKVEMFGVTGPGLEQSSELLE
EFLSLQMEILTELGLHFRVLDMPTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIM
FQTEAGELQFAHTVNATGCAVPRLLIALLESYQQKDGSVLVPPALQPYLGTDRITTPTHVPLQYIGPN
QPQKPRLPGQPASS
11110000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000011111111111
>P14779_3m4v_0_481
MTIKEMPQPKTFGELKNLPLLNTDKPVQALMKIADELGEIFKFEAPGRVTRYLSSQRLIKEACDESR
FDKNLSQALKFVRDFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMKGYHAMMVDIAVQLVQKW
ERLNADEHIEVPEDMTRLTLDTIGLCGFNYRFNSFYRDQPHPFITSMVRALDEAMNKLQRANPDDP
AYDENKRQFQEDIKVMNDLVDKIIADRKASGEQSDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIA
GHETTSGLLSFALYFLVKNPHVLQKAAEEAARVLVDPVPSYKQVKQLKYVGMVLNEALRLWPTAPAF
SLYAKEDTVLGGEYPLEKGDELMVLIPQLHRDKTIWGDDVEEFRPERFENPSAIPQHAFKPFGNGQR

ACIGQQFALHEATLVLGMMLKHFDFEDHTNYELDIKETLTLKPEGFVVKAKSKKIPLGGIPSPSTEQS
AKKVRKKAENAHNTP
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111111111
>Q13325_4j0u_0_481
MSEIRKDTLKAILLELECHFTWNLLKEDIDLFEVEDTIGQQLEFLTTKSRLALYNLLAYVKHLKGQNK
DALECLEQAEEIIQQEHSDKEEVRSLVTWGNYAWVYYHMDQLEEAQKYTGKIGNVCKKLSSPSNYK
LECPETDCEKGWALLKFGGKYYQKAKAAFEKALEVEPDNPEFNIGYAITVYRLDDSDREGSVKSFSL
GPLRKAVTLNPDNSYIKVFLALKLQDVHAEAEGEKYIEEILDQISSQPYVLRYAAKFYRRKNSWNKA
LELLKKALEVTPTSSFLHHQMGLCYRAQMIQIKKATHNRPKGKDKLKVDELISSAIFHFKAAMERDS
MFAFAYTDLANMYAEGGQYSNAEDIFRKALRLENITDDHKHQIHYHYGRFQEFHRKSENTAIHHYL
EALKVKDRSPLRTKLTSALKKLSTKRLCHNALDVQSLSALGFVYKLEGEKRQAAEYYEKAQKIDPEN
AEFLTALCELRLSI
00000000000000000000000000000000000000000000110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000011111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000001000000000000000000000000000000000000000011
>A1W1C2_3zx1_32_512
KNHSINHDLDTSFINFAPKNLKLLDPKQFPQGEILKALPLLKNESKEKNIFRATIEIKENHIELIKGKK
TLFYTYNGLVPAPKIEVFEGDKLEILVKNKLKEATTIHWHGVPVPPDQDGSPHDPILAGEERIYRFEI
PQDSAGTYWYHPHPHYTTSKQVFMGLAGAFVIKAKKDALSHLKERDLMISDLRLDENAQIPNNNL
NDWLNGREGEFVLINGQFKPKIKLATNERIRIYNATAARYLNLRIQGAKFILVGTDGGLIEKAIYKEEF
FLSPASRVEVLIDAPKDGEFRLESAYYDRDKMMVKEEPNTLFLANINLKKENVELPKNLKIFKPSEE
PKEFKEIIMSEDHMQMHGMMGKSESELKIALASMFLINGKSYDLKRIDLSSKLGVVEDWIVINKSHM
DHPFHIHGTQFELISSKLNGKVQKAEFRALRDTINVRPNEELRLRMKQDFKGLRMYHCHILEHEDL
GMMGNLEVKE
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000
>A6LIX4_3otn_25_505
QPTGTMTTDSKLTSKESALALTNSAYLKNTVFNKMTPGWGCNTILLLEYMTGKATSENSQSNYKDF
QDLLVSDRSLYIEDWWQDCYAGIANCNLALQKLGEFENLDASLVNGYMAEVKFMRALYYFYLVRIFG

DVPKITTVQSELGELQVSRAPVKEIYDEIIIPDLLEAEQSDLAFSDHTGRVSMGAVKALLADVYLTYAG
YPLQGGKSYYAESAKRSLEVIKSNEYTLFTDYESLRLPSQNNKGEFIYQVQFSLNKRHNESVRIFLPSR
SGISAYDLEYGSLIPTKEFVESFEKGDKRTEEKQYFFTNYKGHPSKFSPGAAELEFMDLNGYYIYKFFD
QVAVDNTAKSDLNWSVYRYTDVLLMYAEAQVNADGTPNQQSIDIVNQIRGRAGLAPFKQTNASAFL
EEVWDQRYFDLCYENKMWFDMLRTRKIRDDKSGEYVDFIGYKTNWGKVYTETQLLFPIPLSERQA
NPNLTQNQGY
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>O59245_4dwr_0_870
MVVPLKRIDKIRWEIPKFDKRMRVPGRVYADEVLLEKMKNDRTLEQATNVAMLPGIYKYSIVMPDG
HQGYGFPIGGVAAFDVKEGVISPGGIGYDINCGVRLIRTNLTEKEVRPRIKQLVDTLFKNVPSGVGSQG
RIKLHWTQIDDVLVDGAKWAVDNGYGWERDLERLEEGGRMEGADPEAVSQRAKQRGAPQLGSLGS
GNHFLEVQVVDKIFDPEVAKAYGLFEGQVVVMVHTGSRGLGHQVASDYLRIMERAIRKYRIPWPDR
ELVSVPFQSEEGQRYFSAMKAAANFAWANRQMITHWVRESFQEVFKQDPEGDLGMDIVYDVAHNI
GKVEEHEVDGKRVKVIVHRKGATRAFPPGHEAVPRLYRDVGQPVLIPGSMGTASYILAGTEGAMKET
FGSTCHGAGRVLSRKAATRQYRGDRIRQELLNRGIYVRAASMRVVAEEAPGAYKNVDNVVKVVSEAG
IAKLVARMRPIGVAKG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000
>A3DHG6_2y8k_36_515
SPQRGRPRLNAARTTFVGDNGQPLRGPYTSTEWTAAAPYDQIARVKELGFNAVHLYAECFDPRYPAP
GSKAPGYAVNEIDKIVERTRELGLYLVITIGNGANNGNHNAQWARDFWKFYAPRYAKETHVLYEIHN
EPVAWGPPYSSSTANPPGAVDMEIDVYRIIRTYAPETPVLLFSYAVFGGKGGAAEALKDIRAFNKAVF
GNENAVWTNEAVAFHGYAGWQETTIAVEELLKAGYPCFMTEYAGGAWGSGMGGLDVELTYELERL
GVSWLTFQYIPPTGVSDDVTKPEYFSALVENSGLSWTPDYGNWPAARGVYGNGGLARETATWINNF
LTGTTRIEAEDFDWGGNGVSYYDTDSVNVGGQYRPDEGVDIEKTSDTGGGYNVGWISEGEWLEYTI
RVRNPGYYNLSLRVAGISGSRVQVSFGNQDKTGVWELPATGGFQTWTTATRQVFLGAGLQKLRINAL
SGGFNLNWIELSPI
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000
>A6KXE4_3jq1_33_512
TEDTFWKDETDFNLALTSCYTPLKNALNGGYYGTRGVMLRIARADEVDFRNDISDVYTVNRFTNSN
TNSLTQGMFYQFYNALYRTNSIMQKLEEKKEQFSTDFQNSVKGECLFIRGFYLFQLAKEFKDAPLRLT
ASQSPSTFPLAKSSQADIWAQAKEDLKTAASLLPITNKIGKPTQGAAYAALGKIYVYEENWQEAINVL
EPLTQNPYTYKLVEDFNWNFDDTHENNAESIFELLIEDVGGTDLWGDGENINSTQSNTRPKEYAAA
EVGGWYEANPTQQIMDIFWKEKDKDGNFDYRARCSVAWDYEGCTYYQRPFREVFAQDKWKTYWI
LKYQNWKTQKDEPAPPKSFINERAIRYADVLLMLAEAYMNKGALDTSIGYINQIRRRANLNDYSGPI
TKEGVFEDLVHQRAIEFFVEGERFYDLRRWGLLEQTLKTCDDTRYKNYQTGKSDNINKFNYFPIPAK
ELDTNPLCTPSEGW
11100000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111011111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>O33830_1obb_0_479
MPSVKIGIIGAGSAVFSLRLVSDLCKTPGLSGSTVTLMDIDEERLDAILTIAKKYVEEVGADLKFEKTM
NLDDVIIDADFVINTAMVGGHTYLEKVRQIGEKYGYYRGIDAQEFNMVSDYYTFSNYNQLKYFVDIA
RKIEKLSPKAWYLQAANPIFEGTTLVTRTVPIKAVGFCHGHYGVMEIVEKLGLEEEKVDWQVAGVNH
GIWLNRFRYNGGNAYPLLDKWIEEKSKDWKPENPFNDQLSPAAIDMYRFYGVMPIGDTVRNSSWR
YHRDLETKKKWYGEPWGGADSEIGWKWYQDTLGKVTEITKKVAKFIKENPSVRLSDLGSVLGKDLS
EKQFVLEVEKILDPERKSGEQHIPFIDALLNDNKARFVVNIPNKGIIHGIDDDVVVEVPALVDKNGIHP
EKIEPPLPDRVVKYYLRPRIMRMEMALEAFLTGDIRIIKELLYRDPRTKSDEQVEKVIEEILALPENEE
MRKHYLKR
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>P0C1B3_2gvy_21_498
ATPADWRSQSIYFLLTDRFARTDGSTTATCNTADQKYCGGTWQGIIDKLDYIQGMGFTAIWITPVTAQ
LPQTTAYGDAYHGYWQQDIYSLNENYGTADDLKALSSALHERGMYLMVDVVANHMGYDGAGSSVD
YSVFKPFSSQDYFHPFCFIQNYEDQTQVEDCWLGDNTVSLPDLDTTKDVVKNEWYDWVGSLVSNYS
IDGLRIDTVKHVQKDFWPGYNKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPIYYPLLNAFKSTS
GSMDDLYNMINTVKSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIPIIYAGQEQH
YAGGNDPANREATWLSGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPIYKDDTTIAMRKGTD
GSQIVTILSNKGASGDSYTLSLSGAGYTAGQQLTEVIGCTTVTVGSDGNVPVPMAGGLPRVLYPTEKLA
GSKICSSS
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>Q5CS01_3lij_41_516
DLQATPGMFITSKKGHLSEMYQRVKKLGSGAYGEVLLCRDKVTHVERAIKIIRKTSVSTSSNSKLLEE
VAVLKLLDHPNIMKLYDFFEDKRNYYLVMECYKGGELFDEIIHRMKFNEVDAAVIIKQVLSGVTYLHK
HNIVHRDLKPENLLLESKEKDALIKIVDFGLSAVFENQKKMKERLGTAYYIAPEVLRKKYDEKCDVW
SIGVILFILLAGYPPFGGQTDQEILRKVEKGKYTFDSPEWKNVSEGAKDLIKQMLQFDSQRRISAQQA
LEHPWIKEMCSKKESGIELPSLANAIENMRKFQNSQKLAQAALLYMASKLTSQEETKELTDIFRHID
KNGDGQLDRQELIDGYSKLSGEEVAVFDLPQIESEVDAILGAADFDRNGYIDYSEFVTVAMDRKSLLS
KDKLESAFQKFDQDGNGKISVDELASVFGLDHLESKTWKEMISGIDSNNDGDVDFEEFCKMIQKLCS
NNE
00000000000000000000000000001110000000000000000000011111000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00111000000000000000000000000000000000000000000000000000000000000000
00000000011000000000000000000000000000000000000000000000000000000000
00000001000000000000000000000000000000000001
>C1F2K5_3vo0_0_474
MAFARGGLAQTASQTTSSPVRVGLSVDASALGHTIPPDYTGLSYEQAQMANPNYFSGANTQLAGFLR
TLGRQGVLRIGGNTSEYTFWNRHAKPTAADEHLAAGPDKGHHAAAREVITPEAVNNLSEFLDKTG
WKLIYGLNLGKGTPENAADEAAYVMETIGADRLLAFQLGNEPDLFYRNGIRPASYDFAAYAGDWQR
FFTAIRKRVPNAPFAGPDTAYNTKWLVPFADKFKHDVKFISSHYYAEGPPTDPSMTIERLMKPNPRL
LGETAGLKQVEADTGLPFRLTETNSCYQGGKQGVSDTFAAALWAGDLMYQQAAAGSTGINFHGGGY
GWYTPVAGTPEDGFIARPEYYGMLLFAQAGAGQLLGAKLTDNSAAPLLTAYALRGTDGRTRIALFNK
NLDADVEVAISGVASPSGTVLRLEAPRADDTTDVTFGGAPVGASGSWSPLVQEYVPGHSGQFVLHMR
KASGALLEFA
11111111111111110000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>P45066_1p3d_0_474
MKHSHEEIRKIIPEMRRVQQIHFIGIGGAGMSGIAEILLNEGYQISGSDIADGVVTQRLAQAGAKIYIGH
AEEHIEGASVVVVSSAIKDDNPELVTSKQKRIPVIQRAQMLAEIMRFRHGIAVAGTHGKTTTTAMISM
IYTQAKLDPTFVNGGLVKSAGKNAHLGASRYLIAEADESDASFLHLQPMVSVVTNMEPDHMDTYEG
DFEKMKATYVKFLHNLPFYGLAVMCADDPVLMELVPKVGRQVITYGFSEQADYRIEDYEQTGFQGH
YTVICPNNERINVLLNVPGKHNALNATAALAVAKEEGIANEAILEALADFQGAGRRFDQLGEFIRPNG
KVRLVDDYGHHPTEVGVTIKAAREGWGDKRIVMIFQPHRYSRTRDLFDDFVQVLSQVDALIMLDVY

AAGEAPIVGADSKSLCRSIRNLGKVDPILVSDTSQLGDVLDQIIQDGDLILAQGAGSVSKISRGLAESW
KN
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>E3Y0J2_3me5_1_471
QENISVTDSYSTGNAAQAMLEKLLQIYDVKMLVAQLNGVGENHWSAAILKRALANDSAWHRLSEKE
FAHLQTLLPKPPEHHPHYAFRFIDLFAGIGGIRRGFESIGGQCVFTSEWNKHAVRTYKANHYCDPAT
HHFNEDIRDITLSHQEGVSDEAAAEHIRQHIPEHDVLLAGFPCQPFSLAGVSKKNSLGRAHGFACDT
QGTLFFDVVRIIDARRPAMFVLENVKNLKSHDKGKTFRIIMQTLDELGYDVADAEDNGPDDPKIIDG
KHFLPQHRERIVLVGFRRDLNLKADFTLRDISECFPAQRVTLAQLLDPMVEAKYILTPVLWKYLYRYA
KKHQARGNGFGYGMVYPNNPQSVTRTLSARYYKDGAEILIDRGWDMATGEKDFDDPLNQQHRPRR
LTPRECARLMGFEAPGEAKFRIPVSDTQAYRQFGNSVVVPVFAAVAKLLEPKIKQAVALRQQEAQHG
RRSR
11111111111110000000000000000000000000000000000000011111110000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111111111111111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000001111111111000000000
00000000001110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000111111
>Q5ZXC3_3pfe_0_470
MFKPQGLYDYICQQWQEEILPSLCDYIKIPNKSPHFDAKWEEHGYMEQAVNHIANWCKSHAPKGM
TLEIVRLKNRTPLLFMEIPGQIDDTVLLYGHLDKQPEMSGWSDDLHPWKPVLKNGLLYGRGGADDG
YSAYASLTAIRALEQQGLPYPRCILIIEACEESGSYDLPFYIELLKERIGKPSLVICLDSGAGNYEQLWMT
TSLRGNLVGKLTVELINEGVHSGSASGIVADSFRVARQLISRIEDENTGEIKLPQLYCDIPDERIKQAKQ
CAEILGEQVYSEFPWIDSAKPVIQDKQQLILNRTWRPALTVTGADGFPAIADAGNVMRPVTSLKLSM
RLPPLVDPEAASVAMEKALTQNPPYNAKVDFKIQNGGSKGWNAPLLSDWLAKAASEASMTYYDKP
AAYMGEGGTIPFMSMLGEQFPKAQFMITGVLGPHSNAHGPNEFLHLDMVKKLTSCVSYVLYSFSQK
K
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000001
>P45494_1lfw_0_469
MDLNFKELAEAKKDAILKDLEELIAIDSSEDLENATEEYPVGKGPVDAMTKFLSFAKRDGFDTENFA
NYAGRVNFGAGDKRLGIIGHMDVVPAGEGWTRDPFKMEIDEEGRIYGRGSADDKGPSLTAYYGMLLL

KEAGFKPKKKIDFVLGTNEETNWVGIDYYLKHEPTPDIVFSPDAEYPIINGEQGIFTLEFSFKNDDTK
GDYVLDKFKAGIATNVTPQVTRATISGPDLEAVKLAYESFLADKELDGSFEINDESADIVLIGQGAHAS
APQVGKNSATFLALFLDQYAFAGRDKNFLHFLAEVEHEDFYGKKLGIFHHDDLMGDLASSPSMFDY
EHAGKASLLNNVRYPQGTDPDTMIKQVLDKFSGILDVTYNGFEEPHYVPGSDPMVQTLLKVYEKQT
GKPGHEVVIGGGTYGRLFERGVAFGAQPENGPMVMHAANEFMMLDDLILSIAIYAEAIYELTKDEEL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>Q04371_3pt1_0_469
MTIPGRFMTIDKGTFGEYTASTRWPIIIQNAIDDLSKHQETEKSNGTKFEQGEVIKKELKEFRQEIIDR
VPLRPFTEEEIKIANVPLSFNEYLKKHPEVNWGAVEWLFSEVYLYRRVNVLFQRQCEWAKFDIFNRL
KQSTFESSFYGVVELALRYENLLPQLREMKQNPGNEIDDILKVLFKEFIEISLWGNATDLSLLTNATLE
DIKSIQGAKARAASESKIVVNDTEKAWEVLTKARADANSREIRVDFVLDNSGFELYADLMLAAFLLQ
SGLATKCIFHAKDIPYMVSDVMLKDFDILVHDLRDREFFPSGEPSTKESRALDLFAGEMEKFVSSGKI
EFREDSFWTTELDYWNLDANETKYHGSILHKDLQKSNLVIFKGDLNYRKLTGDRKWPRTTKWETA
IGPLATNGITSLSLRTCKADVQVALPEGLDAKLSQEWEKENPGRGSWWCCSGKWAVICFCSGIHK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111100000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>A7RZU9_3re2_0_485
MAGKSIPFPLKDIKSVVEVFRQELRNDQPNLAQLSIVLGFFESASTMKAGDTTSTPSLDEETFDALHC
KFMALLQRDFTFNAGGLPATREIVKNVADLVWGCLAKSYFKDRPHIQNLYSFLTGNRLDCFGVAFAV
VAMCQALGYNDVHLALSEDHAWVVFGKDKIETAEVTWHGKGNEDKRGKPVIYQDDDRCSWLYLN
GNAVHCTRHMEVASIISSINPNINHTTDSIQLSQLQQELLWLLYDMGHIKTYPMAIANLGDLEEISPT
PGRPPAEELFKEAITVAKREYSDHHIYPYTYLGGYYYRKKKYYEAIASWVDAGYVAGKYNYSKDDEE
MYKEFHEIANDLIPNILKDAVAKADPSGTGSTNLTSDPKFFALVLQFYDGICLWEEGSPTPVLHADW
AKKLVQSIGKFAPECRSAFNANTDTLSLRSAKMREMKNLITTSGKLNTSAMKLQLTAQSQVNVPKSR
R
11100000000000000000000000000000000000000000011111110000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00011111111000000000000000000000000000000000000000000000000000000000
00000000000000001111100000000011111111111
>Q2G2P5_3rqt_1_469

HSSGKDLNISLPLKTKSIAPYETDVPVKIGAAESLFKTNDQGKIEKALVKSYHQPNDTTLDIELKDNIK
FQNGQKLTAEKVKSSLENSMKKSDLVKYSLPISSITAKGQKLTIKTNSAYPELVSELANPFMAIYDTDA
KSDVNQTPVGTGPYQIKDYKQSRKISLSNFKDYWQGKPKLDHITVTYQEDGNNRVRNLESQKDDLIT
DVPVNKVQDIENNQNLKVSKESGFRTSLLMYNHTNKKMTKSVREALDHIIDRQGIADHIYQGYAKPA
TSPFNDKIPYIKEPKLTKQNIEQAKMLLAKDGYTKEHPLKIKLITYDGRPELSKIAQVLQSDAKKANIE
IDIKSVDDIEGYLKDRSAWDATMYSFGTIPRGDTGYFFNQAYKKDGAINKGDYNNSNVDDLINQLNH
TVDVKERHNISNDIIKLSSRDVPNSYIAYNDQIVAANSKVKNYKVTPEGIYLIDYRTTIER
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001
>Q9M9P3_1z90_0_468
MAATTENLPQLKSAVDGLTEMSESEKSGFISLVSRYLSGEAQHIEWSKIQTPTDEIVVPYEKMTPVSQ
DVAETKNLLDKLVVLKLNGGLGTTMGCTGPKSVIEVRDGLTFLDLIVIQIENLNNKYGCKVPLVLMNS
FNTHDDTHKIVEKYTNSNVDIHTFNQSKYPRVVADEFVPWPSKGKTDKEGWYPPGHGDVFPALMN
SGKLDTFLSQGKEYVFVANSDNLGAIVDLTILKHLIQNKNEYCMEVTPKTLADVKGGTLISYEGKVQL
LEIAQVPDEHVNEFKSIEKFKIFNTNNLWVNLKAIKKLVEADALKMEIIPNPKEVDGVKVLQLETAA
GAAIRFFDNAIGVNVPRSRFLPVKASSDLLLVQSDLYTLVDGFVTRNKARTNPSNPSIELGPEFKKVAT
FLSRFKSIPSIVELDSLKVSGDVWFGSSIVLKGKVTVAAKSGVKLEIPDRAVVENKNINGPEDL
11111000000000000000000000000000000000011110000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>P00350_2zya_0_467
MSKQQIGVVGMAVMGRNLALNIESRGYTVSIFNRSREKTEEVIAENPGKKLVPYYTVKEFVESLETP
RRILLMVKAGAGTDAAIDSLKPYLDKGDIIIDGGNTFFQDTIRRNRELSAEGFNFIGTGVSGGEEGALK
GPSIMPGGQKEAYELVAPILTKIAAVAEDGEPCVTYIGADGAGHYVKMVHNGIEYGDMQLIAEAYSLL
KGGLNLTNEELAQTFTEWNNGELSSYLIDITKDIFTKKDEDGNYLVDVILDEAANKGTGKWTSQSAL
DLGEPLSLITESVFARYISSLKDQRVAASKVLSGPQAQPAGDKAEFIEKVRRALYLGKIVSYAQGFSQLR
AASEEYNWDLNYGEIAKIFRAGCIIRAQFLQKITDAYAENPQIANLLLAPYFKQIADDYQQALRDVVAY
AVQNGIPVPTFSAAVAYYDSYRAAVLPANLIQAQRDYFGAHTYKRIDKEGVFHTEWLD
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001

>P18477_3uxf_27_490
GAAAPADPNGSTIDPDAATTLTVHKCEQTDTNGVKEGTGNEDPQAECKPVSDVEFTITKLNVDLTTY
DGWKTLADLKGDVVKAGALKSTTVQKITTGANGLASFTDAQTEVGAYLVSETRTPDKVIPAEDFVVT
LPMTNPQDTAKWNYNVHVYPKNTLSGVDKQVTDKPAPGSGRDITYTITTSIPKVDYPGGARIKRYE
VVDRLDKRIKKEALTPVVKIVGQNEVTLAETTDYTLITAEGKDHNWATIQLTEEGRRKASEARYNGN
GETKLQVTLNAKFDAAVNLEGDLSNTAGLIPNDSPNFTWDPNNPGTTTDIPGIPTTPVLSKYGKVVL
TKTGTDDLADKTKYNGAQFQVYECTKTASGATLRDSDPSTQTVDPLTIGGEKTFTTAGQGTVEINYL
RANDYVNGAKKDQLTDEDYYCLVETKAPEGYNLQADPLPFRVLAEKAEKKAATEVTVTDIPKN
1111111000000000000000000000011111111000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001
>A7LZS1_3p2c_25_486
SNRMTEMHVCLADAIQKDNRPEISNRLFRSNAVEKEILRVQKLLKNAKLAWMFTNCFPNTLDTTV
HFRKGSDGKPDTFVYTGDIHAMWLRDSGAQVWPYVQLANSDPELKEMLAGVILRQFKCINIDPYAN
AFNDGAIPDGHWMSDLTDMKPELHERKWEIDSLCYPLRLAYHYWKTTGDASIFNEEWIQAITNVL
KTFKEQQRKDGVGPYKFQRKTERALDTVSNDGLGAPVKPVGLIVSSFRPSDDATTLQFLVPSNFFAV
SSLRKAAEILEKVNKKTALSKECKDLAQEVETALKKYAVYNHPKYGKIYAFEVDGFGNHHLMDDAN
VPSLLAMPYLGDVNVNDPIYQNTRRFVWSEDNPYFFKGKAGEGIGGPHIGYDMVWPMSIMMKAFT
SQNDAEIKTCIKMLMDTDAGTGFMHESFHKDNPKKFTRAWFAWQNTLFGELILKLVNEGKVDLLN
SIQ
1111111111111111000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000
>Q8PYK9_2xry_2_463
MNPKRIRALKSGKQGDGPVVYWMSRDQRAEDNWALLFSRAIAKEANVPVVVVFCLTDEFLEAGIR
QYEFMLKGLQELEVSLSRKKIPSFFLRGDPGEKISRFVKDYNAGTLVTDFSPLRIKNQWIEKVISGISIP
FFEVDAHNVVPCWEASQKHEYAAHTFRPKLYALLPEFLEEFPELEPNSVTPELSAGAGMVETLSDVL
ETGVKALLPERALLKNKDPLFEPWHFEPGEKAAKKVMESFIADRLDSYGALRNDPTKNMLSNLSPY
LHFGQISSQRVVLEVEKAESNPGSKKAFLDEILIWKEISDNFCYYNPGYDGFESFPSWAKESLNAHRN
DVRSHIYTLEEFEAGKTHDPLWNASQMELLSTGKMHGYMRMYWAKKILEWSESPEKALEIAICLN
DRYELDGRDPNGYAGIAWSIGGVHDRAWGEREVTGKIRYMSYEGCKRKFDVKLYIEKYSAL
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000011111111100000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000011
>Q60187_3ssa_0_459
MAKEYKTITQIAGPLIFVEKTEPVGYNEIVNIKMGDGTVRRGQVLDSSADIVVVQVFEGTGGLDKDCG
VIFTGETLKLPASVDLLGRILSGSGEPRDGGPRIVPDQLLDINGAAMNPYARLPPKDFIQTGISTIDGT
NTLVRGQKLPIFSASGLPHNEIALQIARQASVPGSESAFAVVFAAMGITNEEAQYFMSDFEKTGALER
AVVFLNLADDPAVERIVTPRMALTAAEYLAYEHGMHVLVILTDITNYAEALRQMGAARNEVPGRRGY
PGYMYTDLATLYERAGIVKGAKGSVTQIPILSMPGDDITHPIPDLSGYITEGQIVVARELHRKGIYPPIN
VLPSLSRLMNSGIGAGKTREDHKAVSDQMYAGYAEGRDLRGLVAIVGKEALSERDTKFLEFADLFED
KFVRQGRNENRTIEDTLEIGWQILTHLPENQLGRIDNKYIQKYHPAHRKAK
11111111111000000000000000000000000000000000000000000000000001111111000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>Q8GAG1_2bvf_0_458
MVSSKLATPLSIQGEVIYPDDSGFDAIANIWDGRHLQRPSLIARCLSAGDVAKSVRYACDNGLEISVRS
GGHNPNGYATNDGGIVLDLRLMNSIHIDTAGSRARIGGGVISGDLVKEAAKFGLAAVTGMHPKVGFC
GLALNGGVGFLTPKYGLASDNILGATLVTATGDVIYCSDDERPELFWAVRGAGPNFGVVTEVEVQLYE
LPRKMLAGFITWAPSVSELAGLLTSLLDALNEMADHIYPSVFVGVDENRAPSVTVCVGHLGGLDIAE
RDIARLRGLGRTVSDSIAVRSYDEVVALNAEVGSFEDGMSNLWIDREIAMPNARFAEAIAGNLDKFVS
EPASGGSVKLEIEGMPFGNPKRTPARHRDAMGVLALAEWSGAAPGSEKYPELARELDAALLRAGVT
TSGFGLLNNNSEVTAEMVAEVYKPEVYCRLAAVKREYDPENRFRHNYNIDPEGS
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>Q83DX0_3ij3_0_457
MADCYLTEKKKNFIPIQPMMPDELPDWLDTQDARTQQWVKASGFVGLAGTICSIPESTGALQRVLL
GVSDYEYSWDFGGLSKVLPPGAFQLNRDDFEDDEYYERALLAFGLGSYQFNAYRKRSPYLAKLFLPQ
AHRKRVTDWLTTIYLIRDLINTPAEDMGPSELAQAVKHVAKEFEAKVKIIESKDLETEFPAIYAVGRA
GSRPPLLIDLKWGDIKAPKVTLVGKGVCFDSGGLDIKTPGGMLLMKKDMGGAAHALGLARMIMLQ
QLPVRLRLLIPAVENAIGSRSYRPGDVVQTRARKTIEITNTDAEGRVVLADALAEAVKEDPDLIIDFST
LTGAARIALGPNLPALFANQDSLAQALIDASLKTDDPLWRLPLFQPYRNYLKSEVADLTNSSQNRMA
GAITAALFLQHFVSDQIPWAHFDIFAWNLEDLPGRPIGGEAMALRAVFHYLEQQYR
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000
>Q8KRB7_2xep_8_465
MMKKADSVPTPAEAALAAQTALAADDSPMGDAARWAMGLLTSSGLPRPEDVAARFIPTFAAAGNF
AETVREWRSKGPFTVRAYHPVAHKGWVVLSAPAGVRYILSLTLDSSGLIRILTLKPETVIPDMVTWN
DVEETLHTPGVQHSVYAVRLTPDGHEVLHASAPERPMPTGSAYKLYLMRALVAEIEKGTVGWDEILT
LTPELRSLPTGDMQDLPDGTRVTVRETAHKMIALSDNTGADLVADRLGREVVERSLAAAGHHDPSL
MRPFLTSHEVFELGWGDPERRAEWVRQDEAGRRELLEKMAGVMTVRGSDLGATVHQLGIDWHM
DAFDVVRVLEGLLQDSGRDTSGTVEEILTAYPGLLIDEERWRRVYFKAGSSPGVMMFCWLLQDHAGI
SYVLVLRQSADEQRLIGDGLFLRGIGAKIIEAEAKLLSSGERRGAGTAAAGDDRASAGEAARR
111111000000000000000000000000000000000000000000000000111100000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000011111111111111111111111
>P24228_2exb_20_476
ANVDEYITQLPAGANLALMVQKVGASAPAIDYHSQQMALPASTQKVITALAALIQLGPDFRFTTTLE
TKGNVENGVLKGDLVARFGADPTLKRQDIRNMVATLKKSGVNQIDGNVLIDTSIFASHDKAPGWPW
NDMTQCFSAPPAAAIVDRNCFSVSLYSAPKPGDMAFIRVASYYPVTMFSQVRTLPRGSAEAQYCELD
VVPGDLNRFTLTGCLPQRSEPLPLAFAVQDGASYAGAILKDELKQAGITWSGTLLRQTQVNEPGTVVA
SKQSAPLHDLLKIMLKKSDNMIADTVFRMIGHARFNVPGTWRAGSDAVRQILRQQAGVDIGNTIIAD
GSGLSRHNLIAPATMMQVLQYIAQHDNELNFISMLPLAGYDGSLQYRAGLHQAGVDGKVSAKTGSLQ
GVYNLAGFITTASGQRMAFVQYLSGYAVEPADQRNRRIPLVRFESRLYKDIYQNN
111000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000011111111000000000000000000
>Q5SII2_3m6v_0_455
MLPKAFLSRMAELLGEEFPAFLKALTEGKRTYGLRVNTLKLPPEAFQRISPWPLRPIPWCQEGFYYP
EEARPGPHPFFYAGLYYIQEPSAQAVGVLLDPKPGERVLDLAAAPGGKTTHLAARMGGKGLLLANEV
DGKRVRGLLENVERWGAPLAVTQAPPRALAEAFGTYFHRVLLDAPCSGEGMFRKDREAARHWGPS
APKRMAEVQKALLAQASRLLGPGGVLVYSTCTFAPEENEGVVAHFLKAHPEFRLEDARLHPLFAPGV
PEWGEGNPELLKTARLWPHRLEGEGHFLARFRKEGGAWSTPRLERPSPLSQEALRAFRGFLEEAGL
TLEGPVLDRAGHLYLLPEGLPTLLGLKAPAPGLYLGKVQKGRFLPARALALAFGATLPWPEGLPRLAL
TPEDPRALAFATGEGVAWEGEDHPLALVVLKTAAGEFPLDFGKAKRGVLRPVGVGL
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>Q5ZXD1_3bhg_0_455
MTLTALNAISPIDGRYVNKTRALSPYFSEFALTYYRLMVEIKWFESLAANDTIPEVPALDNKARKFLS
DLISNFNESEAEKIKEFEKQTNHDVKAVEYYLQDKFQENEQLKSCVAFIHFACTSEDINNLAYALMIK
QAIAQVIQPTIAEIMGSITLLGKQHADVAMLSRTHGQPATPTTMGKELVNFVARLKRPQQQLAEVLIP
AKFNGAVGNYNAHVAAYPEVDWRKHCANFVTSLGLSFNAYTTQIEPHDGIAEVSQIMVRINNILLDY
TQDIWSYISLGYFKQKTIAEEVGSSTMPHKVNPIDFENAEGNLGLSNALFIHFANKLTQSRMQRDLSD
STVLRNLGVAFSYSLIAYHSVAKGNDKLQINKSALQKDLSENWEVLAEAIQTVMRRYNEPNAYEQLK
ELTRGQMIDAENLKKFIKTLSIPEEAKAELMKLTPETYTGLATQLVKAFS
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000011111100000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>Q6A1F6_2nx9_0_455
MTQAIKRVGVTDVVLRDAHQSLFATRLRIDDMLPIAQQLDQIGYWSLECWGGATFDSCIRFLGEDP
WQRLRLLKQAMPNTPLQMLLRGQNLLGYRHYADDVVDTFVERAVKNGMDVFRVFDAMNDVRNM
QQALQAVKKMGAHAQGTLCYTTSPVHNLQTWVDVAQQLAELGVDSIALKDMAGILTPYAAEELVST
LKKQVDVELHLHCHSTAGLADMTLLKAIEAGVDRVDTAISSMSGTYGHPATESLVATLQGTGYDTGL
DIAKLEQIAAYFRDVRKKYHAFEGMMKGSDARILVAQVPGGMLTNMESQLKQQNALDKLDLVLEEIP
RVREELGFLPLVTPTSQIVGTQAVINVVLGERYKTITKETSGVLKGEYGKTPAPVNTELQARVLAGAE
AITCRPADLIAAEMPTLQDRVLQQAKEQHITLAENAIDDVLTIALFDQVGWKFLANRHN
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011
>Q6SJY7_3ls9_13_468
MILIRGLTRVITFDDQERELEDADILIDGPKIVAVGKDLSDRSVSRTIDGRGMIALPGLINSHQHLYEGA
MRAIPQLERVTMASWLEGVLTRSAGWWRDGKFGPDVIREVARAVLLESLLGGITTVADQHLFFPGA
TADSYIDATIEAATDLGIRFHAARSSMTLGKSEGGFCDDLFVEPVDRVVQHCLGLIDQYHEPEPFGMV
RIALGPCGVPYDKPELFEAFAQMAADYDVRLHTHFYEPLDAGMSDHLYGMTPWRFLEKHGWASDR
VWLAHAVVPPREEIPEFADAGVAIAHLIAPDLRMGWGLAPIREYLDAGITVGFGTTGSASNDGGNLL
GDLRLAALAHRPADPNEPEKWLSARELLRMATRGSAECLGRPDLGVLEEGRAADIACWRLDGVDR
VGVHDPAIGLIMTGLSDRASLVVVNGQVLVENERPVLADLERIVANTTALIPKNL
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000111
>Q9HU77_3mdw_0_452
MSAIFAERALLPEGWARNVRFEISADGVLAEIRPDANADGAERLGGAVLPGMPNLHSHAFQRAMAG
LAEVAGNPNDSFWTWRELMYRMVARLSPEQIEVIACQLYIEMLKAGYTAVAEFHYVHHDLDGRSYA
DPAELSLRISRAASAAGIGLTLLPVLYSHAGFGGQPASEGQRRFINGSEAYLELLQRLRAPLEAAGHSL
GLCFHSLRAVTPQQIATVLAAGHDDLPVHIHIAEQQKEVDDCQAWSGRRPLQWLYENVAVDQRWCL
VHATHADPAEVAAMARSGAVAGLCLSTEANLGDGIFPATDFLAQGGRLGIGSDSHVSLSVVEELRWL
EYGQRLRDRKRNRLYRDDQPMIGRTLYDAALAGGAQALGQPIGSLAVGRRADLLVLDGNDPYLASAE
GDALLNRWLFAGGDRQVRDVMVAGRWVVRDGRHAGEERSARAFVQVLGELLD
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000011
>B7AM82_4ftd_22_473
DEDYPKSHIEPYDTELLSIKILNAGANGDKVVEGTIDEAKKTINFPRLDVETDFSALSIEAELSEGAAL
QSEVMDYSMDAETNEKTQVLRIINHNRYKDYLMKVRKRVPVFGADFEKPTVYNFSGDNIYSDFATN
YTRCASYDGEHVLVVSRPTTPNFHTPHLLKVSDLKRGEIKPIMLDVTGVKGGTYDYNMGALINGHVY
LSSLSGGKVSPFKIYYWETPTSNPEVIANINVGNIPGAGNRHGDNASYNIDENGNGFIFFGDNAATEF
LKVPISGHKTVDIGNIKVLPSKSDATMVTNVYRVGDTDQYLWSGIRVPVTLVDESLGEKYKSKIAGEA
VAPKVVTFNEERYLLVCTAGQGAASKASIALEVYDLTKGETIEDALKKFDEGENHNPIYQFKLGGSGN
GNALAQTDYYIEKDENGKDAKLCLFASRTQSGFVICEFPIKQEEMD
111111111111000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000
>P54318_1bu8_16_467
KEVCYGHLGCFSNDKPWAGMLQRPLKIFPWSPEDIDTRFLLYTNENPNNYQKISATEPDTIKFSNFQ
LDRKTRFIVHGFIDKGEDGWLLDMCKKMFQVEKVNCICVDWRRGSRTEYTQASYNTRVVGAEIAFL
VQVLSTEMGYSPENVHLIGHSLGAHVVGEAGRRLEGHVGRITGLDPAEPCFQGLPEEVRLDPSDAMF
VDVIHTDSAPIIPYLGFGMSQKVGHLDFFPNGGKEMPGCQKNILSTIVDINGIWEGTQNFVACNHLRS
YKYYASSILNPDGFLGYPCSSYEKFQQNDCFPCPEEGCPKMGHYADQFEGKTATVEQTVYLNTGDSG
NFTRWRYKVSVTLSGAKKLSGYILVALYGNNGNSKQYEIFKGSLKPEARHVRDIDVDINVGEIQKVKF
LWNNKVINLFRPTLGASQITVQSGVDGKEYNFCSSDTVREDVLQSLYPC
000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000111111000000000000000000000
>Q59310_2vk5_242_693
VEGAVKTEPVDLFHPGFLNSSNYRIPALFKTKEGTLIASIDARRHGGADAPNNDIDTAVRRSEDGGKT
WDEGQIIMDYPDKSSVIDTTLIQDDETGRIFLLVTHFPSKYGFWNAGLGSGFKNIDGKEYLCLYDSSG
KEFTVRENVVYDKDGNKTEYTTNALGDLFKNGTKIDNINSSTAPLKAKGTSYINLVYSDDDGKTWS
EPQNINFQVKKDWMKFLGIAPGRGIQIKNGEHKGRIVVPVYYTNEKGKQSSAVIYSDDSGKNWTIGE
SPNDNRKLENGKIINSKTLSDDAPQLTECQVVEMPNGQLKLFMRNLSGYLNIATSFDGGATWDETV
EKDTNVLEPYCQLSVINYSQKVDGKDAVIFSNPNARSRSNGTVRIGLINQVGTYENGEPKYEFDWKY
NKLVKPGYYAYSCLTELSNGNIGLLYEGTPSEEMSYIEMNLKYLESGANK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000111
>Q9F1X5_2cdu_0_451
MKVIVVGCTHAGTFAVKQTIADHPDADVTAYEMNDNISFLSCGIALYLGKEIKNNDPRGLFYSSPEEL
SNLGANVQMRHQVTNVDPETKTIKVKDLITNEEKTEAYDKLIMTTGSKPTVPPIPGIDSSRVYLCKN
YNDAKKLFEEAPKAKTITIIGSGYIGAELAEAYSNQNYNVNLIDGHERVLYKYFDKEFTDILAKDYEA
HGVNLVLGSKVAAFEEVDDEIITKTLDGKEIKSDIAILCIGFRPNTELLKGKVAMLDNGAIITDEYMHS
SNRDIFAAGDSAAVHYNPTNSNAYIPLATNAVRQGRLVGLNLTEDKVKDMGTQSSSGLKLYGRTYVST
GINTALAKANNLKVSEVIIADNYRPEFMLSTDEVLMSLVYDPKTRVILGGALSSMHDVSQSANVLSVC
IQNKNTIDDLAMVDMLFQPQFDRPFNYLNILGQAAQAQADKAHK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000001
>C8W8H7_4jbf_504_953
IDAPRLQALPTNNHTIAKSAYVQRGAIITSDGVTLAESVKQDDGTYVRNYPHDGMASHTVGYISTQYG
TAGIESSMNETLTGHADHSDWRSALYSMAGINTTGSSVVLTINSQMQAVAEAALQGYSGSIVVMDPS
TGAVLAKASSPSYTHAELGTIIESGTGSQLVDRTTQALYSPGSSFKTVTLAAGIDTHKTTLDTTYSAPG
TMEIGGGTIHNYANEDMGTIPLREAFARSSNTALAQLGVALGADNLVSYARAFGYGTALGQDFSTTPS
LMPNPAEMTTWELAWASCGLPVGEHASPAGPQTTVMQNAVIAAAIANGGVVMNPYIVDRVLSPEG
AVVSTTSPKSLGQAVSADTAAQVREAMLGVVESGTGMGARVPGVKIAGKTGTADVENGNFNSFFIGF
APYDHPTLVVSVVIEGNGENVLGYGAQVGGRVLAQCLNIQALGAAS

1111111111111111110000000000000000000010001000000000000000000000000
0000000000111111000000000000000000000000000000000000000000000000000
0000000000000011111100000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111
>Q8A0N4_3poh_26_475
DDLEVGKNIDESAYSGIYENNAYLRDGKSNLVSKVVELHGETYATTVKMGLSKTPNTATSAKVKIDAA
YLETYNKAHNTDFALYPQDLVTFANEGILTVNANTKSAEVEMTIRAGEGLQEDKTYAIPVAISDQSSD
ITIKDEDAKHCIYLVKDMRNAGDAYKGEGVMQGYLFFEVNDVNPLNTLSFQLENGKLLWDVVVLFA
ANINYDAEAGRPRVQCNPNVQYLLDNNETLLQPLRRRGVKVLLGLLGNHDITGLAQLSEQGAKDFA
REVAQYCKAYNLDGVNYDDEYSNSPDLSNPSLTNPSTAAAARLCYETKQAMPDKLVTVFDWGQMYG
VATVDGVDAKEWIDIVVANYGSAAYPIGQMTKKQCSGISMEFNLGGGGSLSASKAQSMIDGGYGWFM
GFAPSPAKYGSVFSRLQGGGEVLYGSNVAAPTIFYKKNDPTPYKYPDDL
1111111111111110000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000
>F0V3Z3_4a0s_1_447
SSLSRAVLDGASAAEIEAAPVPDTYLALHLRAEDADMFKGVADKDVRKSLRLGEVPMPELAPDEVLV
AVMASSINYNTVWSAMFEPIPTFHFLKQNARQGGWATRHDQPYHVLGSDCSGVVVRTGIGVRRWK
PGDHVIVHPAHVDEQEPATHGDGMLGTEQRAWGFETNFGGLAEYGVVRASQLLPKPAHLTWEEAA
VSPLCAGTAYRMLVSDRGAQMKQGDIVLIWGASGGLGSYAIQFVKNGGGIPVAVVSSAQKEAAVRALG
CDLVINRAELGITDDIADDPRRVVETGRKLAKLVVEKAGREPDIVFEHTGRVTFGLSVIVARRGGTVV
TCGSSSGYLHTFDNRYLWMKLKKIVGSHGANHEEQQATNRLFESGAVVPAMSAVYPLAEAAEACRV
VQTSRQVGKVAVLCMAPEQGLGVTDPDLRARLGEDRLNPLRGLTATSR
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>P03587_3vkw_665_1110
SYTRSEEIESLEQFHMATASSLIHKQMCSIVYTGPLKVQQMKNFIDSLVASLSAAVSNLVKILKDTAAID
LETRQKFGVLDVASKRWLVKPSAKNHAWGVVETHARKYHVALLEHDEFGIITCDNWRRVAVSSESV
VYSDMAKLRTLRRLLKDGEPHVSSAKVVLVDGVPGCGKTKEILSRVNFEEDLILVPGRQAAEMIRRR
ANASGIIVATKDNVRTVDSFLMNYGKGARCQFKRLFIDEGLMLHTGCVNFLVEMSLCDIAYVYGDTQ
QIPYINRVTGFPYPAHFAKLEVDEVETRRTTLRCPADVTHFLNQRYEGHVMCTSSEKKSVSQEMVSG
AASINPVSKPLKGKILTFTQSDKEALLSRGYADVHTVHEVQGETYADVSLVRLTPTPVSIIARDSPHVL

VSLSRHTKSLKYYTVVMDPLVSIIRDLERVSSYLLDMYKV
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000
>P0A6E4_1k92_1_446
TTILKHLPVGQRIGIAFSGGLDTSAALLWMRQKGAVPYAYTANLGQPDEEDYDAIPRRAMEYGAENA
RLIDCRKQLVAEGIAAIQCGAFHNTTGGLTYFNTTPLGRAVTGTMLVAAMKEDGVNIWGDGSTYKGN
DIERFYRYGLLTNAELQIYKPWLDTDFIDELGGRHEMSEFMIACGFDYKMSVEKAYSTDSNMLGATH
EAKDLEYLNSSVKIVNPIMGVKFWDESVKIPAEEVTVRFEQGHPVALNGKTFSDDVEMMLEANRIG
GRHGLGMSDQIENRIIEAKSRGIYEAPGMALLHIAYERLLTGIHNEDTIEQYHAHGRQLGRLLYQGRW
FDSQALMLRDSLQRWVASQITGEVTLELRRGNDYSILNTVSENLTYKPERLTMEKGDSVFSPDDRIG
QLTMRNLDITDTREKLFGYAKTGLLSSSAASGVPQVENLENKGQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000011
>A3EYF7_2ykv_0_444
MNEPIGEPGRSPASDTAEKAQAIAAARNTFARDNPVSAGHHERARRSMPGGNTRSILFHRPFPLVIA
QGTGSRFQDVDGHAYVNFLGEYTAGLFGHSHPVIRAAVERALAVGLNLSTQTENEALFAEAVCDRFP
SIDLVRFTNSGTEANLMALATATAITGRKTVLAFDGGYHGGLLNFASGHAPTNAPYHVVLGVYNDVE
GTADLLKRHGHDCAAILVEPMLGAGGCVPAERAFLDLLRAEASRCGALLIFDEVMTSRLSGGGAQEM
LGISADLTTLGKYIGGGMSFGAFGGRRDLMERFDPARDGAFAHAGTFNNNILTMSAGHAALTQIYTR
QAASDLSASGDRFRANLNRIAVENQAPLQFTGLGSLGTIHFSRAPIRSAGDVRAADQQLKELFFFHM
LRKGIYLAPRGMYALSLEIADAGRDAFAEALADFIGEQRALLM
11111111111111000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001
>A1S420_3iib_24_466
SDDINQKVAEQLAQKAQSSSLGYDIVESLTVEVGPRLAGSEQDKVAVDWAIAKLQSLGFDRVYKEPVT
VPVWRRGIAKASILSPFPQPLVVTALGGSIATPAQGLSATIVRFDTLQDLQNAEAGSLNDKIAFIDAKT
ERHRDGKGYGQTASGRSRGAVAAAEKGAVGIIIRSIGTDHDRMAHTGMMRYEEGVTAIPAAAISNPDA
DLINAMLKRDKEVVISLELGSERRGETTSYNVIAEVKGSTKADEIVLIGAHLDSWDEGTGAIDDGAGV
AIVTAAAKHILDLPQKPERTIRVVLYAAEELGLLGGKTYAKEHEAELEKHYIAAESDFGAGPIYQIDWR

VADTAHSPVINAMKVAEPLGVAAGNNKASGGPDVSMLPALGVPVASLRQDGSDYFDYHHTPNDTLD
KINPEALAQNVAVYAQFAWVMANSKVELRPLPPKE
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000001
>F8UVJ4_3rva_0_442
MSQHKATYQQHIEELQARTREALQREGLDGLVIHSGQGKRLFLDDNHYPFKVNPQFKAWVPVIDNP
NCWLVVNGVDKPTLIFYRPEDFWHKVPPEPNDFWTDSFDIKLLQQADAVEKFLPYDKSRFAYVGEY
IEVAKALGFDNVNPDRVLHYLHYQRAYKTDYELDCMREANKLAVAGHKAAEQAFREGKSEFDINLA
YAAASRQGDNDVPYTSIVALNEHASILHYMQCDTVAPKESRSFLIDAGANYHGYAADITRTYAQEGVH
NSAMFRDLIQAVDKVTLTLVDSLKPGVAYTDIHLLAHDGIAQILHDTGMVNLTPPEIVEMGITRTFFP
HGIGHFLGLQVHDVGGLVNDDRGTPKPAPDDHPFLRCTRMVEARQVFTIEPGLYFIDSLLRDLKATP
ASKYINWDTIDAYKPFGGIRIEDNIIVHRDKNENMTRDLDLN
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>Q9QZM2_1g5h_16_458
WLSGYAGPADGTQQPDAPEHAVAREALVDLCRRRHFFSGTPQQLSTAALLSGCHARFGPLGVELRK
NLASQWWSSMVVFREQVFAVDSLHQEPGSSQPRDSAFRLVSPESIREILQDREPSKEQLVAFLENLL
KTSGKLRATLLHGALEHYVNCLDLVNRKLPFGLAQIGVCFHPVSNSNQTPSSVTRVGEKTEASLVWF
TPTRTSSQWLDFWLRHRLLWWRKFAMSPSNFSSADCQDELGRKGSKLYYSFPWGKEPIETLWNLG
DQELLHTYPGNVSTIQGRDGRKNVVPCVLSVSGDVDLGTLAYLYDSFQLAENSFARKKSLQRKVLKL
HPCLAPIKVALDVGKGPTVELRQVCQGLLNELLENGISVWPGYSETVHSSLEQLHSKYDEMSVLFSVL
VTETTLENGLIQLRSRDTTMKEMMHISKLRDFLVKYLASASNV
111111111111111111111110000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111100000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000001111111100000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000
>O00092_1qwo_23_464
SAGSKSCDTVDLGYQCSPATSHLWGQYSPFFSLEDELSVSSKLPKDCRITLVQVLSRHGARYPTSSKSK
KYKKLVTAIQANATDFKGKFAFLKTYNYTLGADDLTPFGEQQLVNSGIKFYQRYKALARSVVPFIRAS
GSDRVIASGEKFIEGFQQAKLADPGATNRAAPAISVIIPESETFNNTLDHGVCTKFEASQLGDEVAANF
TALFAPDIRARAEKHLPGVTLTDEDVVSLMDMCSFDTVARTSDASQLSPFCQLFTHNEWKKYNYLQ

SLGKYYGYGAGNPLGPAQGIGFTNELIARLTRSPVQDHTSTNSTLVSNPATFPLNATMYVDFSHDNSM
VSIFFALGLYNGTEPLSRTSVESAKELDGYSASWVVPFGARAYFETMQCKSEKEPLVRALINDRVVPL
HGCDVDKLGRCKLNDFVKGLSWARSGGNWGECFS
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000001
>Q8WZK8_3mm3_56_497
ANDTILPLNNIQGDILVGMKKQKERFVFFQVNDATSFKTALKTYVPERITSAAILISDPSQQPLAFVNL
GFSNTGLQALGITDDLGDAQFPDGQFADAANLGDDLSQWVAPFTGTTIHGVFLIGSDQDDFLDQFT
DDISSTFGSSITQVQALSGSARPGDQAGHEHFGFLDGISQPSVTGWETTVFPGQAVVPPGIILTGRDGD
TGTRPSWALDGSFMAFRHFQQKVPEFNAYTLANAIPANSAGNLTQQEGAEFLGARMFGRWKSGAPI
DLAPTADDPALGADPQRNNNFDYSDTLTDETRCPFGAHVRKTNPRQDLGGPVDTFHAMRSSIPYGP
ETSDAELASGVTAQDRGLLFVEYQSIIGNGFRFQQINWANNANFPFSKPITPGIEPIIGQTTPRTVGGL
DPLNQNETFTVPLFVIPKGGEYFFLPSISALTATIAA
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>Q65Z69_1y9z_144_584
AETTPWGQTFVGATVLSDSQAGNRTICIIDSGYDRSHNDLNANNVTGTNNSGTGNWYQPGNNNAH
GTHVAGTIAAIANNEGVVGVMPNQNANIHIVKVFNEAGWGYSSSLVAAIDTCVNSGGANVVTMSLGG
SGSTTTERNALNTHYNNGVLLIAAAGNAGDSSYSYPASYDSVMSVAAVDSNLDHAAFSQYTDQVEIS
GPGEAILSTVTVGEGRLADITIGGQSYFSNGVVPHNRLTPSGTSYAPAPINASATGALAECTVNGTSFS
CGNMANKICLVERVGNQGSSYPEINSTKACKTAGAKGIIVYSNSALPGLQNPFLVDANSDITVPSVSVD
RATGLALKAKLGQSTTVSNQGNQDYEYYNGTSMATPHVSGVATLVWSYHPECSASQVRAALNATAD
DLSVAGRDNQTGYGMINAVAAKAYLDESCTGPTDPGTG
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000011111
>Q9FYU1_3lx4_56_496
AAPAAEAPLSHVQQALAELAKPKDDPTRKHVCVQVAPAVRVAIAETLGLAPGATTPKQLAEGLRRLG
FDEVFDTLFGADLTIMEEGSELLHRLTEHLEAHPHSDEPLPMFTSCCPGWIAMLEKSYPDLIPYVSSC
KSPQMMLAAMVKSYLAEKKGIAPKDMVMVSIMPCTRKQSEADRDWFCVDADPTLRQLDHVITTVE

LGNIFKERGINLAELPEGEWDNPMGVGSGAGVLFGTTGGVMEAALRTAYELFTGTPLPRLSLSEVRG
MDGIKETNITMVPAPGSKFEELLKHRAAARAEAAAHGTPGPLAWDGGAGFTSEDGRGGITLRVAVA
NGLGNAKKLITKMQAGEAKYDFVEIMACPAGCVGGGGQPRSTDKAITQKRQAALYNLDEKSTLRRS
HENPSIRELYDTYLGEPLGHKAHELLHTHYVAGGVEEKDEKK
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111100000000000000000000000000000000000
00000000000000000000000000000000000000000011100000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000001111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000001111111
>C7QHQ7_4fx5_0_439
MSQYPDFAFEINQNEFLAAGVREVHAVVTLTATAAAGGAPAAASYGAPASGSENVEVIIIDCSGSMDY
PRTKMMAAKEATKVAIDTLTDGAFFAVVAGTEGARVVYPTGGQLLRADYQSRAAAKEAVGRLHANG
GTAMGRWLAQAGRIFDTAPSAIKHAILLTDGKDESETPADLARAIQSSIGNFTADCRGIGEDWEPKEL
RKIADALLGTVGIIRDPATLAEDFREMTAKSMGKEVADVALRLWAPKGATIRYVKQVSPNLADLSGM
RVPGDNPLTGDYPTGAWGAESREYHICVEVEPGNIGQEKLAGRVQLVAKDAGGATLLGEGKIRAVWT
EDTDLSTRINGRVAHYTGQAEMAAAIQEGLDAQAAGDLDTATARLGRAMDLAVESGHEDTVKMLR
KVTEVDPATSKVRAKAKVDKGDAMELDVVSTKTVRAKRN
10000000000000000000000000000001111111111111111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111
>Q9X1F8_1mky_0_438
MATVLIVGRPNVGKSTLFNKLVKKKKAIVEDEEGVTRDPVQDTVEWYGKTFKLVDTCGVFDNPQDII
SQKMKEVTLNMIREADLVLFVVDGKRGITKEDESLADFLRKSTVDTILVANKAENLREFEREVKPEL
YSLGFGEPIPVSAEHNINLDTLLETIIKKLEEKGLDLESKPEITDAIKVAIVGRPNVGKSTLFNAILNKE
RALVSPIPGTTRDPVDDEVFIDGRKYVFVDTAGLRRKSRVEPRTVEKYSNYRVVDSIEKADVVVIVLD
ATQGITRQDQRIAGLVERRGRASVVVFNKWDLVEHREKRYDEFTKLFREKLYFIDYSPLIFTSADKG
WNIDRVIDAINLAYASYTTKVPSSAINSALQKVLAFTNLPRGLKIFFGLQVDIKPPTFLFFVNSIEKVK
NPQKIFLRKLIRDYVFPFEGSPIFLKFKRSR
10000000000000000000001111111111111100000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
11111000000000000000000011111111111000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000000000
>O52582_1yqz_0_437
MPKIVVVGAVAGGATCASQIRRLDKESDIIIFEKDRDMSFANCALPYVIGEVVEDRRYALAYTPEKFYD
RKQITVKTYHEVIAINDERQTVSVLNRKTNEQFEESYDKLILSPGASANSLGFESDITFTLRNLEDTD

AIDQFIKANQVDKVLVVGAGYVSLEVLENLNERGLHPTLIHRSDKINKLMDADMNQPILDELDKREI
PYRLNEEINAINGNEITFKSGKVEHYDMIIEGVGTHPNSKFIESSNIKLDRKGFIPVNDKFETNVPNIY
AIGDIATSHYRHVDLPASVPLAWGAHRAASIVAEQIAGNDTIEFKGFLGNNIVKFFDYTFASVGVKPN
ELKQFDYKMVEVTQGAHANYYPGNSPLHLRVYYDTSNRQILRAAAVGKEGADKRIDVLSMAMMNQ
LTVDELTEFEVAYAPPYSHPKDLINMIGYKAK
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000
>P08563_4b3v_582_1017
EEAFTYLCTAPGCATQTPVPVRLAGVRFESKIVDGGCFAPWDLEATGACICEIPTDVSCEGLGAWVPT
APCARIWNGTQRACTFWAVNAYSSGGYAQLASYFNPGGSYYKQYHPTACEVEPAFGHSDAACWGFP
TDTVMSVFALASYVQHPHKTVRVKFHTETRTVWQLSVAGVSCNVTTEHPFCNTPHGQLEVQVPPD
PGDLVEYIMNYTGNQQSRWGLGSPNCHGPDWASPVCQRHSPDCSRLVGATPERPRLRLVDADDPLL
RTAPGPGEVWVTPVIGSQARKCGLHIRAGPYGHATVEMPEWIHAHTTSDPWHPPGPLGLKFKTVR
PVALPRALAPPRNVRVTGCYQCGTPALVEGLAPGGGNCHLTVNGEDVGAFPPGKFVTAALLNTPPPY
QVSCGGESDRASARVIDPAAQSFTGVVYGTHTTAVSETR
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000110
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000001
>P35021_1skq_0_434
MSQKPHLNLIVIGHIDHGKSTLVGRLLMDRGFIDEKTVKEAEEAAKKLGKESEKFAFLLDRLKEERE
RGVTINLTFMRFETKKYFFTIIDAPGHRDFVKNMITGASQADAAILVVSAKKGEYEAGMSVEGQTRE
HIILAKTMGLDQLIVAVNKMDLTEPPYDEKRYKEIVDQVSKFMRSYGFNTNKVRFVPVVAPAGDNIT
HRSENMKWYNGPTLEEYLDQLELPPKPVDKPLRIPIQDVYSISGVGTVPVGRVESGVLKVGDKIVFM
PAGKVGEVRSIETHHTKMDKAEPGDNIGFNVRGVEKKDIKRGDVVGHPNNPPTVADEFTARIIVVW
HPTALANGYTPVIHVHTASVACRVSELVSKLDPRTGQEAEKNPQFLKQGDVAIVKFKPIKPLCVEKYN
EFPPLGRFAMRDMGKTVGVGIIVDVKPAKVEIK
11100000000000000000000000000000000000000000000000000000000000000111111
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000011111
>Q60393_2vxr_862_1296
SNISSNAILSLSYRGGRLIDSSGYGATMNVGSDVIFNDIGNGQFKLNNSENSNITAHQSKFVVYDSMFD

NFSINFWVRTPKYNNNDIQTYLQNEYTIISCIKNDSGWKVSIKGNRIIWTLIDVNAKSKSIFFEYSIKD
NISDYINKWFSITITNDRLGNANIYINGSLKKSEKILNLDRINSSNDIDFKLINCTDTTKFVWIKDFNIF
GRELNATEVSSLYWIQSSTNTLKDFWGNPLRYDTQYYLFNQGMQNIYIKYFSKASMGETAPRTNFN
NAAINYQNLYLGLRFIIKKASNSRNINNDNIVREGDYIYLNIDNISDESYRVYVLVNSKEIQTQLFLAPI
NDDPTFYDVLQIKKYYEKTTYNCQILCEKDTKTFGLFGIGKFVKDYGYVWDTYDNYFCISQWYLRRI
SENINKLRLGCNWQFIPVDEGWTE
11111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001110000000000000000000000000000000000000
000000000
>Q383X0_3h9u_3_436
YKVRDISLAEWGRRELELAENEMPGLMELRREYGPSKPLKGAKIAGCLHMTMQTAVLIETLVELGA
EVRWASCNIFSTQDHAAAAIAKRGIPVFAWKGETEEEYMWCMKQTLKGFSGDGYPNMLLDDGGDL
TNYVLDECKELDGKIYGVSEETTTGVKNLYKRLQRGKLTIPAMNVNDSVTKSKFDNLYGCRESLVDGI
KRATDVMIAGKTACVCGYGDVGKGCAAALRGFGARVVVTEVDPINALQAAMEGYQVLLVEDVVEEA
HIFVTTTGNDDIITSEHFPRMRDDAIVCNIGHFDTEIQVAWLKANAKERVEVKPQVDRYTMANGRHI
ILLAEGRLVNLGCASGHPSFVMSNSFCNQVLAQIELWTNRDTGKYPRGAKAQVYFLPKKLDEKVAAL
HLGKLGAKLTKLTPKQAEYINCPVDGPFKPDHYRY
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000100
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000
>Q9X9I8_2fn0_0_433
MKISEFLHLALPEEQWLPTISGVLRQFAEEECYVYERPPCWYLGKGCQARLHINADGTQATFIDDAG
EQKWAVDSIADCARRFMAHPQVKGRRVYGQVGFNFAAHARGIAFNAGEWPLLTLTVPREELIFEKG
NVTVYADSADGCRRLCEWVKEASTTTQNAPLAVDTALNGEAYKQQVARAVAEIRRGEYVKVIVSRAI
PLPSRIDMPATLLYGRQANTPVRSFMFRQEGREALGFSPELVMSVTGNKVVTEPLAGTRDRMGNPE
HNKAKEAELLHDSKEVLEHILSVKEAIAELEAVCLPGSVVVEDLMSVRQRGSVQHLGSGVSGQLAEN
KDAWDAFTVLFPSITASGIPKNAALNAIMQIEKTPRELYSGAILLLDDTRFDAALVLRSVFQDSQRCW
IQAGAGIIAQSTPERELTETREKLASIAPYLMV
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000011
11111111111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000
>Q72DN3_3m1u_31_463

SRPATPPVTPPSREGHVADLDRFPQDLRVYAMKAGADRQLLPFTEQAAQDARWNRRFFAPWRMT
RISVPVKDVAAPFGTDGRPRGYAENLLPWDVTRWGALASGAALDLYPSQAWKGIVVSNSALREVPT
LRPMFTAPTRAGQGYPFDMFQRTAVWMGTPVFVGHATADRAWLYVETAFAAGWMPAADVARVDD
AFMTRYESGSLAAILRDDTSLNGADGTHLATAHIGTVLPLSGASQVGRTVLVPVRAPEGHAVVVPVLL
TSGEAAQKPVPLTPGNMAELGNRMMGQPYGWGGLYEDRDCSSTLRDLFTPFGLWLPRNSASQAKA
GRYVDIAKLDADDKEARIVAEGVPFMTLLWLRGHITLYLGLHEGQAAMFHNMWGIRTHRGGVEGR
YVLGRAVVTSTRPGLDVPGNDNADGLLGRMQGMSILPGGAQ
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000111
>P08169_1q25_44_475
AAGTQGAEFPELCSYTWEAVDTKNNMLYKINICGNMGVAQCGPSSAVCMHDLKTDSFHSVGDSLLK
TASRSLLEFNTTVNCKQQNHKIQSSITFLCGKTLGTPEFVTATDCVHYFEWRTTAACKKNIFKANKE
VPCYAFDRELKKHDLNPLIKTSGAYLVDDSDPDTSLFINVCRDIEVLRASSPQVRVCPTGAAACLVRG
DRAFDVGRPQEGLKLVSNDRLVLSYVKEGAGQPDFCDGHSPAVTITFVCPSERREGTIPKLTAKSNCR
FEIEWVTEYACHRDYLESRSCSLSSAQHDVAVDLQPLSRVEASDSLFYTSEADEYTYYLSICGGSQAPI
CNKKDAAVCQVKKADSTQVKVAGRPQNLTLRYSDGDLTLIYFGGEECSSGFQRMSVINFECNQTAGN
NGRGAPVFTGEVDCTYFFTWDTKYACV
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000
>Q6N7D3_3pfo_0_431
MATETLTKSDAITQSLRAAVDRNFNDQVAFLQRMVQFRSVRGEEAPQQEWLAQQFADRGYKVDTF
SLADVDIASHPKAAPMDTIDPAGSMQVVATADSDGKGRSLILQGHIDVVPEGPVDLWSDPPYEAKVR
DGWMIGRGAQDMKGGVSAMIFALDAIRTAGYAPDARVHVQTVTEEESTGNGALSTLMRGYRADACL
IPEPTGHTLTRAQVGAVWFRLRVRGTPVHVAYSETGTSAILSAMHLIRAFEEYTKELNAQAVRDPWF
GQVKNPIKFNVGIIKGGDWASSTAAWCELDCRLGLLTGDTPQEAMRGIEKCLADAQATDSFLSENPA
ELVWSGFQADPAVCEPGGVAEDVLTAAHKAAFNAPLDARLSTAVNDTRYYSVDYGIPALCYGPYGQG
PHAFDERIDLESLRKTTLSIALFVAEWCGLRKL
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
000000

>Q9Y253_4ecw_0_431
MATGQDRVVALVDMDCFFVQVEQRQNPHLRNKPCAVVQYKSWKGGGIIAVSYEARAFGVTRSMWA
DDAKKLCPDLLLAQVRESRGKANLTKYREASVEVMEIMSRFAVIERASIDEAYVDLTSAVQERLQKLQ
GQPISADLLPSTYIEGLPQGPTTAEETVQKEGMRKQGLFQWLDSLQIDNLTSPDLQLTVGAVIVEEMR
AAIERETGFQCSAGISHNKVLAKLACGLNKPNRQTLVSHGSVPQLFSQMPIRKIRSLGGKLGASVIEIL
GIEYMGELTQFTESQLQSHFGEKNGSWLYAMCRGIEHDPVKPRQLPKTIGCSKNFPGKTALATREQV
QWWLLQLAQELEERLTKDRNDNDRVATQLVVSIRVQGDKRLSSLRRCCALTRYDAHKMSHDAFTVI
KNCNTSGIQTEWSPPLTMLFLCATKFSAS
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
000000
>P03518_4hj1_690_1118
CSELIQASSRITTCSTEGVNTKCRLSGTALIRAGSVGAEACLMLKGVKEDQTKFLKIKTVSSELSCREG
QSYWTGSISPKCLSSRRCHLVGECHVNRCLSWRDNETSAEFSFVGESTTMRENKCFEQCGGWGCGC
FNVNPSCLFVHTYLQSVRKEALRVFNCIDWVHKLTLEITDFDGSVSTIDLGASSSRFTNWGSVSLSLD
AEGISGSNSFSFIESPSKGYAIVDEPFSEIPRQGFLGEIRCNSESSVLSAHESCLRAPNLISYKPMIDQLE
CTTNLIDPFVVFERGSLPQTRNDKTFAASKGNRGVQAFSKGSVQADLTLMFDNFEVDFVGAAVSCDA
AFLNLTGCYSCNAGARVCLSITSTGTGSLSAHNKDGSLHIVLPSENGTKDQCQILHFTVPEVEEEFMY
SCDGDERPLLVKGTLIAIDP
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
001
>P37352_1i7o_0_426
MKGTIFAVALNHRSQLDAWQEAFQQSPIKAPPKTAVWFIKPRNTVIGCGEPIPFPQGENLLSGATVAL
IVGKTATKVREEDAAEYIAGYALANDVSLPEESFYRPAIKAKCRDGFCPIGETVALSNVDNLTIYTEING
RPADHWNTSDLQRNAAQLLSALSEFATLNPGDAILLGTPQARVEIQPGDRVRVLAEGFPPLENPVVD
EREVTTRKSFPTLPHPHGTLFALGLNYADHASELEFKPPEEPLVFLKAPNTLTGDNQTSVRPNNIEY
MHYEAELVVVIGKQARNVSEADAMDYVAGYTVCNDYAIRDYLENYYRPNLRVKSRDGLTPMLSTIVP
KEAIPDPHNLTLRTFVNGELRQQGTTADLIFSVPFLIAYLSEFMTLNPGDMIATGTPKGLSDVGDEVV
VEVEGVGRLVNRIVSEETAK
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

0
>D9TQ02_2yjg_0_425
MANIEIPYGKSKLAFDLPDERIQGILRSKAGSYKVNMSEEDIVKRALENPIGTKRLQDLAEGKKNIVII
TSDHTRPVPSRITLPLLLDEIRKKNKSANVKILIATGFHRGTTLQEMKAKFGEDLVENEQFVVHDSR
NSENMELIGTLPSGGKLEINKLAVEADLLVAEGFIEPHFFAGFSGGRKSILPGIASVQCILANHCSEFIK
NPYARTGVLENNPIHRDMIYAAKKANLAFILNVVIDSSHKIVNAFAGHSEKAHLKGCEFVSEIATVNA
KPADIVITSNGGYPLDQNIYQSVKGMTAGEAACKDGGVIIIAAECADGHGGEGFYRWFKESKDPQDV
MNKILSRGRDETLPDQWEAQILARILINHKVIMVTDSKNYEYVKDMFMTPAKDLGEALKIAESIVN
NDSKINVIPDGVSVIVREK
1000000000000000000000000001111111000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>Q6M8B5_3ppl_0_425
MSSVSLQDFDAERIGLFHEDIKRKFDELKSKNLKLDLTRGKPSSEQLDFADELLALPGKGDFKAADG
TDVRNYGGLDGIVDIRQIWADLLGVPVEQVLAGDASSLNIMFDVISWSYIFGNNDSVQPWSKEETVK
WICPVPGYDRHFSITERFGFEMISVPMNEDGPDMDAVEELVKNPQVKGMWVVPVFSNPTGFTVTE
DVAKRLSAMETAAPDFRVVWDNAYAVHTLTDEFPEVIDIVGLGEAAGNPNRFWAFTSTSKITLAGAG
VSFFLTSAENRKWYTGHAGIRGIGPNKVNQLAHARYFGDAEGVRAVMRKHAASLAPKFNKVLEILD
SRLAEYGVAQWTVPAGGYFISLDVVPGTASRVAELAKEAGIALTGAGSSYPLRQDPENKNLRLAPSLP
PVEELEVAMDGVATCVLLAAAEHYAN
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001
>Q8DP63_2c1i_37_462
FKIYQQKSFEQKIESLKKEKDDQLSEGNQKEHFRQGQAEVIAYYPLQGEKVISSVRELINQDVKDKLE
SKDNLVFYYTEQEESGLKGVVNRNVTKQIYDLVAFKIEETEKTSLGKVHLTEDGQPFTLDQLFSDASK
AKEQLIKELTSFIEDKKIEQDQSEQIVKNFSDQDLSAWNFDYKDSQIILYPSPVVENLEEIALPVSAFF
DVIQSSYLLEKDAALYQSYFDKKHQKVVALTFDDGPNPATTPQVLETLAKYDIKATFFVLGKNVSGNE
DLVKRIKSEGHVVGNHSWSHPILSQLSLDEAKKQITDTEDVLTKVLGSSSKLMRPPYGAITDDIRNSL
DLSFIMWDVDSLDWKSKNEASILTEIQHQVANGSIVLMHDIHSPTVNALPRVIEYLKNQGYTFVTIPE
MLNTRLKAHELYYSRDE
1111111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001111100000000000000000000000000000000000000
0000011111111111111111111110000000000000000111111111000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>Q09028_2xu7_0_424

MADKEAAFDDAVEERVINEEYKIWKKNTPFLYDLVMTHALEWPSLTAQWLPDVTRPEGKDFSIHRL
VLGTHTSDEQNHLVIASVQLPNDDAQFDASHYDSEKGEFGGFGSVSGKIEIEIKINHEGEVNRARYMP
QNPCIIATKTPSSDVLVFDYTKHPSKPDPSGECNPDLRLRGHQKEGYGLSWNPNLSGHLLSASDDHT
ICLWDISAVPKEGKVVDAKTIFTGHTAVVEDVSWHLLHESLFGSVADDQKLMIWDTRSNNTSKPSH
SVDAHTAEVNCLSFNPYSEFILATGSADKTVALWDLRNLKLKLHSFESHKDEIFQVQWSPHNETILA
SSGTDRRLNVWDLSKIGEEQSPEDAEDGPPELLFIHGGHTAKISDFSWNPNEPWVICSVSEDNIMQV
WQMAENIYNDEDPEGSVDPEGQGS
11111111110000000000000000000000000000000000000000000000000000000000
00000000000000001111111111111111111111110000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11110000000000000000000000000000000000000000000000000111111111111111
>Q11U39_3h9m_1_425
SFTPLHTTSEAFIEKALPWLEDRYFHIAYLNPNGYTAYPQGAFRHYLAFGSEAAIHVSDATRVFETW
NEIKKGYTNEWIFVFASYDGKNSVEQLHTSKEAGIAFAAATFFIPEHVWEIQPDGILIHKGSGSSLVTE
IQHAEPSTPVQQSDIFVKQVVSKESYFNAFDELQQIIAQGDAYEINYCIPFTAKGNISPAATYQRLNKKT
PMPFSVYYKFNTEYILSASPERFIKKTGDTIISQPIKGTSKRGKSKAEDEMLKQQLGTSEKEQSENTMI
VDLVRNDLSRTAVAGSVCVPELSGLYTFPNVHQLISTVQSTIDPACSSIDVIQQAFPMGSMTGAPKVNV
MKFIDRIESMARGPFSGTVGYMDPHDNFDFNVLIRSIFYNSATQELFMEAGSAITSYAKAETEYEECL
LKITPMIHILNNQ
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000001111111111111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000011
>Q65D11_3vot_0_424
MTKRNKNLAIICQNKHLPFIFEEAERLGLKVTFFYNSAEDFPGNLPAVERCVPLPLFEDEEAAMDVV
RQTFVEFPFDGVMTLFEPALPFTAKAAEALNLPGLPFTTMENCRNKNKTRSILQQNGLNTPVFHEF
HTLADLENRKLSYPLVVKPVNGFSSQGVVRVDDRKELEEAVRKVEAVNQRDLNRFVHGKTGIVAEQ
FIDGPEFAIETLSIQGNVHVLSIGYKGNSKGPFFEEGVYIAPAQLKEETRLAIVKEVTGAVSALGIHQGP
AHTELRLDKDGTPYVIEVGARIGGSGVSHYIVKESTGINFMQLVLQNALKPLESSEFEGEIRPVRTAGN
YIIPVQGSGTFEKIDGLEEVKQRQEVKRVFQFMRRGAKILPYPHFSGYPGFILTSHHSYEECEAFYREL
DDELHIIYQNNLTGTIGG
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000001111100000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000011111111
>O54874_4aw2_1_423
SGEVRLRQLEQFILDGPAQTNGQCFSVETLLDILICLYDECNNSPLRREKNILEYLEWAKPFTSKVKQ
MRLHREDFEILKVIGRGAFGEVAVVKLKNADKVFAMKILNKWEMLKRAETACFREERDVLVNGDSK

WITTLHYAFQDDNNLYLVMDYYVGGDLLTLLSKFEDRLPEEMARFYLAEMVIAIDSVHQLHYVHRDI
KPDNILMDMNGHIRLADFGSCLKLMEDGTVQSSVAVGTPDYISPEILQAMEDGKGRYGPECDWWSL
GVCMYEMLYGETPFYAESLVETYGKIMNHKERFQFPTQVTDVSENAKDLIRRLICSREHRLGQNGIE
DFKKHPFFSGIDWDNIRNCEAPYIPEVSSPTDTSNFDVDDDCLKNSETMPPPTHTAFSGHHLPFVGF
TYTSSCVLSDRSCLRVTAGPTS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000001111111111111111110000000000000000000001111111
>Q816V9_2i0z_0_422
MHYDVIVIGGGPSGLMAAIGAAEEGANVLLLDKGNKLGRKLAISGGGRCNVTNRLPLDEIVKHIPGN
GRFLYSAFSIFNNEDIITFFENLGVKLKEEDPGRMFPVSNKAQSVVDALLTRLKDLGVKIRTNTPVETI
EYENGQTKAVILQTGEVLETNHVVIAVGGKSVPQTGSTGDGYAWAEKAGHTITELFPTEVPILSNEPF
IRDRSLQGLALRDINLSVLNPKGKAIISHKMDMLFTHFGLSGPAALRCSQFVVKALKKFKTNTIQMSI
DALPEENSEQLFQRMLKQMKEDPKKGIKNVLKGYVPERYFLFLLEKNEIDGSEQAGQVSHEKIRALV
KDFKEFTVNVNGTQSIEKAFVTGGGVSVKEINPKEMSSKFTNGLYFCGEVLDIHGYTGGYNITSALVT
GRIAGTTAGENAKMQY
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111
>O54828_2pbi_0_421
MTIRHQGQQYRPRMAFLQKIEALVKDMQNPETGVRMHNQRVLVTSVPHAMTGGDVLQWITQRLW
ISNLEAQNLGNFIVKYGYIYPLQDPKNLILKPDSSLYRFQTPYFWPTQQWPAEDTDYAIYLAKRNIKK
KGILEEYEKENYDFLNKKINYKWDFVIMQAKEQYRTGKERNKADRYALDCQEKAYWLVHRSPPGM
NNVLDYGLDRVTNPNEVKKQTVTAVRKEIMYYQQALMRSTVKSSVSLGGIVKYSEQFSSNDAIMSGC
LPSNPWITDDTQFWDLNAKLVEIPTKMRVERWAFNFSELIRDPKGRQSFQYFLKKEFSGENLGFWE
ACEDLKYGDQSKVKEKAEEIYKLFLAPGARRWINIDGKTMDITVKGLRHPHRYVLDAAQTHIYMLM
KKDSYARYLKSPIYKEMLAKAIEPQE
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000001
>O66990_1xrf_0_421
MLKLIVKNGYVIDPSQNLEGEFDILVENGKIKKIDKNILVPEAEIIDAKGLIVCPGFIDIHVHLRDPGQT
YKEDIESGSRCAVAGGFTTIVCMPNTNPPIDNTTVVNYILQKSKSVGLCRVLPTGTITKGRKGKEIADF
YSLKEAGCVAFTDDGSPVMDSSVMRKALELASQLGVPIMDHCEDDKLAYGVINEGEVSALLGLSSRA
PEAEEIQIARDGILAQRTGGHVHIQHVSTKLSLEIIEFFKEKGVKITCEVNPNHLLFTEREVLNSGANA

RVNPPLRKKEDRLALIEGVKRGIIDCFATDHAPHQTFEKELVEFAMPGIIGLQTALPSALELYRKGIISL
KKLIEMFTINPARIIGVDLGTLKLGSPADITIFDPNKEWILNEETNLSKSRNTPLWGKVLKGKVIYTIK
DGKMVYKD
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000111111111111111111111111111100000
000000000000000000000000000000000000000000000000111111111111111111111
100000000000000000000000011111111100000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>P08192_1w78_0_421
MIIKRTPQAASPLASWLSYLENLHSKTIDLGLERVSLVAARLGVLKPAPFVFTVAGTNGKGTTCRTLE
SILMAAGYKVGVYSSPHLVRYTERVRVQGQELPESAHTASFAEIESARGDISLTYFEYGTLSALWLFKQ
AQLDVVILEVGLGGRLDATNIVDADVAVVTSIALDHTDWLGPDRESIGREKAGIFRSEKPAIVGEPEM
PSTIADVAQEKGALLQRRGVEWNYSVTDHDWAFSDAHGTLENLPLPLVPQPNAATALAALRASGLE
VSENAIRDGIASAILPGRFQIVSESPRVIFDVAHNPHAAEYLTGRMKALPKNGRVLAVIGMLHDKDIA
GTLAWLKSVVDDWYCAPLEGPRGATAEQLLEHLGNGKSFDSVAQAWDAAMADAKAEDTVLVCGSF
HTVAHVMEVIDARRSGGK
111110000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000111
>P16640_1q1r_0_421
MNANDNVVIVGTGLAGVEVAFGLRASGWEGNIRLVGDATVIPHHLPPLSKAYLAGKATAESLYLRTP
DAYAAQNIQLLGGTQVTAINRDRQQVILSDGRALDYDRLVLATGGRPRPLPVASGAVGKANNFRYLRT
LEDAECIRRQLIADNRLVVIGGGYIGLEVAATAIKANMHVTLLDTAARVLERVTAPPVSAFYEHLHRE
AGVDIRTGTQVCGFEMSTDQQKVTAVLCEDGTRLPADLVIAGIGLIPNCELASAAGLQVDNGIVINEH
MQTSDPLIMAVGDCARFHSQLYDRWVRIESVPNALEQARKIAAILCGKVPRDEAAPWFWSDQYEIG
LKMVGLSEGYDRIIVRGSLAQPDFSVFYLQGDRVLAVDTVNRPVEFNQSKQIITDRLPVEPNLLGDES
VPLKEIIAAAKAELSSA
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000
>A2V759_2ek9_35_455
APAHADHQITKRTDAENMYNTIQFLSQAPRVAGSPEELKAVRYIEQQFKSYGYHVEVQPFQFEGYTA
PSEVTLKIGTEKKEGEAFTYSPNSDVTAELVYVGLGTTADVAGKDLNGKIALIQRGNISFADKVRNAA
KQGAKAVIIYNNTDGKLNGTLGGSDASFVAAVGITKQEGDALAANLRAGEKITATVKVAGAEVKTLTS
HNVIATKKPDANKKNTNDIIIIGSHHDSVEKAPGANDDASGVAVTLELARVMSKLKTDTELRFITFGA
EENGLIGSKKYAASLSEDEIKRTIGMFQLDMVGSKDAGDLIMYTIDGKKNRVTDLGAAASSRLSGVLP
YGQEGRSDHESFHALGIPAALFIHAPVEPWYHTPNDTLDKISKEKLDNVADIVGSAVYQAARPGELVI

EPIDYPRRNVELQN
11110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000011111
>Q55793_1t3i_0_419
MVALQIPSLAATVRQDFPILNQEINGHPLVYLDNAATSQKPRAVLEKLMHYYENDNANVHRGAHQL
SVRATDAYEAVRNKVAKFINARSPREIVYTRNATEAINLVAYSWGMNNLKAGDEIITTVMEHHSNLV
PWQMVAAKTGAVLKFVQLDEQESFDLEHFKTLLSEKTKLVTVVHISNTLGCVNPAEEIAQLAHQAG
AKVLVDACQSAPHYPLDVQLIDCDWLVASGHKMCAPTGIGFLYGKEEILEAMPPFFGGGEMIAEVFF
DHFTTGELPHKFEAGTPAIAEAIALGAAVDYLTDLGMENIHNYEVELTHYLWQGLGQIPQLRLYGPN
PKHGDRAALASFNVAGLHASDVATMVDQDGIAIRSGHHCTQPLHRLFDASGSARASLYFYNTKEEID
LFLQSLQATIRFFSDDDFTV
11111100000000000000000000000000000000000000000001100000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111
>Q9V3D4_1jnd_20_439
ASNLVCYYDSSSYTREGLGKLLNPDLEIALQFCSHLVYGYAGLRGENLQAYSMNENLDIYKHQFSEVT
SLKRKYPHLKVLLSVGGDHDIDPDHPNKYIDLLEGEKVRQIGFIRSAYDLVKTYGFDGLDLAYQFPKN
KPRKVHGDLGLAWKSIKKLFTGDFIVDPHAALHKEQFTALVRDVKDSLRADGFLLSLTVLPNVNST
WYFDIPALNGLVDFVNLATFDFLTPARNPEEADYSAPIYHPDGSKDRLAHLNADFQVEYWLSQGFPS
NKINLGVATYGNAWKLTKDSGLEGVPVVPETSGPAPEGFQSQKPGLLSYAEICGKLSNPQNQFLKGNE
SPLRRVSDPTKRFGGIAYRPVDGQITEGIWVSYDDPDSASNKAAYARVKNLGGVALFDLSYDDFRGQ
CSGDKYPILRAIKYRL
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001
11111111111111111100000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000
>P21543_3voc_35_453
AVADDFQASVMGPLAKINDWGSFKKQLQTLKNNGVYAITTDVWWGYVESAGDNQFDWSYYKTYA
NAVKEAGLKWVPIISTHKCGGNVGDDCNIPLPSWLSSKGSADEMQFKDESGYANSEALSPLWSGTGK
QYDELYASFAENFAGYKSIIPKIYLSGGPSGELRYPSYYPAAGWSYPGRGKFQAYTETAKNAFRTAMND
KYGSLDKINAAWGTKLTSLSQINPPTDGDGFYTNGGYNSAYGKDFLSWYQSVLEKHLGVIGAAAHKN
FDSVFGVRIGAKISGLHWQMNNPAMPHGTEQAGGYYDYNRLIQKFKDADLDLTFTCLEMSDSGTAP
NYSLPSTLVDTVSSIANAKGVRLNGENALPTGGSGFQKIEEKITKFGYHGFTLLRINNLVNNDGSPTG
ELSGFKQYIISKAKPDNN
00000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000111
>Q8G8Y2_2c81_0_417
MTIPFDHWPEWPQHSDRTRRKIEEVFQSNRWAISGYWTGEESMERKFAKAFADFNGVPYCVPTTS
GSTALMLALEALGIGEGDEVIVPSLTWIATATAVLNVNALPVFVDVEADTYCIDPQLIKSAITDKTKAII
PVHLFGSMANMDEINEIAQEHNLFVIEDCAQSHGSVWNNQRAGTIGDIGAFSCQQGKVLTAGEGGII
VTKNPRLFELIQQLRADSRVYCDDSSELMHGDMQLVKKGDIQGSNYCLSEFQSAILLDQLQELDDKN
AIREKNAMFLNDALSKIDGIKVMKRPPQVSRQTYYGYVFRFDPVKFGGLNADQFCEILREKLNMGTF
YLHPPYLPVHKNPLFCPWTKNRYLKSVRKTEAYWRGLHYPVSERASGQSIVIHHAILLAEPSHLSLL
VDAVAELARKFCVTH
11111110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011
>Q9ZBU1_2vft_0_417
MSDITVTNWAGNITYTAKELLRPHSLDALRALVADSARVRVLGSGHSFNEIAEPGDGGVLLSLAGLPS
VVDVDTAARTVRVGGGVRYAELARVVHARGLALPNMASLPHISVAGSVATGTHGSGVGNGSLASVVR
EVELVTADGSTVVIARGDERFGGAVTSLGALGVVTSLTLDLEPAYEMEQHVFTELPLAGLDPATFETV
MAAAYSVSLFTDWRAPGFRQVWLKRRTDRPLDGFPYAAPAAEKMHPVPGMPAVNCTEQFGVPGP
WHERLPHFRAEFTPSSGAELQSEYLMPREHALAALHAMDAIRETLAPVLQTCEIRTVAADAQWLSP
AYGRDTVAAHFTWVEDTAAVLPVVRRLEEALVPFAARPHWGKVFTVPAGELRALYPRLADFGALAG
ALDPAGKFTNAFVRGVLAG
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001
>P53196_3vl1_0_416
MTKTITVAHIQYDFKAVLEENDENDDEFYINVDKNLNEIKEHKIVVLGNSRGVDAGKGNTFEKVGSH
LYKARLDGHDFLFNTIIRDGSKMLKRADYTAVDTAKLQMRRFILGTTEGDIKVLDSNFNLQREIDQA
HVSEITKLKFFPSGEALISSSQDMQLKIWSVKDGSNPRTLIGHRATVTDIAIIDRGRNVLSASLDGTIR
LWECGTGTTIHTFNRKENPHDGVNSIALFVGTDRQLHEISTSKKNNLEFGTYGKYVIAGHVSGVITV
HNVFSKEQTIQLPSKFTCSCNSLTVDGNNANYIYAGYENGMLAQWDLRSPECPVGEFLINEGTPINN
VYFAAGALFVSSGFDTSIKLDIISDPESERPAIEFETPTFLVSNDDEVSQFCYVSDDESNGEVLEVGKN
NFCALYNLSNP
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
>Q6WNP1_4doy_0_416
MTLSPEKQHVRPRDAADNDPVAVARGLAEKWRATAVERDRAGGSATAEREDLRASGLLSLLVPREY
GGWGADWPTAIEVVREIAAADGSLGHLFGYHLTNAPMIELIGSQEQEEHLYTQIAQNNWWTGNASS
ENNSHVLDWKVSATPTEDGGYVLNGTKHFCSGAKGSDLLFVFGVVQDDSPQQGAIIAAAIPTSRAGV
TPNDDWAAIGMRQTDSGSTDFHNVKVEPDEVLGAPNAFVLAFIQSERGSLFAPIAQLIFANVYLGIA
HGALDAAREYTRTQARPWTPAGIQQATEDPYTIRSYGEFTIALQGADAAAREAAHLLQTVWDKGDA
LTPEDRGELMVKVSGVKALATNAALNISSGVFEVIGARGTHPRYGFDRFWRNVRTHSLHDPVSYKIA
DVGKHTLNGQYPIPGFTS
1111111111111111000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q8ZL86_3g7q_0_415
MTFSLFGDKFTRHSGITRLMEDLNDGLRTPGAIMLGGGNPAHIPAMQDYFQTLLTDMVESGKAADA
LCNYDGPQGKTALLNALAVLLRETLGWDIEPQNIALTNGSQSAFFYLFNLFAGRRADGSTKKVLFPL
APEYIGYADSGLEDDLFVSARPNIELLPEGQFKYHVDFEHLHIGEETGMICVSRPTNPTGNVITDEEL
MKLDRLANQHNIPLVIDNAYGVPFPGIIFSEARPLWNPNIILCMSLSKLGLPGSRCGIIIANDKTITAIA
NMNGIISLAPGGMGPAMMCEMIKRNDLLRLSETVIKPFYYQRVQQTIAIIRRYLSEERCLIHKPEGAIF
LWLWFKDLPITTELLYQRLKARGVLMVPGHYFFPGLDKPWPHTHQCMRMNYVPEPDKIEAGVKIL
AEEIERAWREG
1111111111111100000000001111100000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000001111000000000000000000000
1111100000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>O24782_3awq_0_414
MPKTPHTKGPDETLSLLADPYRFISRQCQRLGANAFESRFLLKKTNCLKGAKAAEIFYDTTRFEREG
AMPVAIQKTLLGQGGVQGLDGETHRHRKQMFMGLMTPERVRALAQLFEAEWRRAVPGWTRKGEI
VFYDELHEPLTRAVCAWAGVPLPDDEAGNRAGELRALFDAAGSASPRHLWSRLARRRVDAWAKRII
EGIRAGSIGSGSGTAAYAIAWHRDRHDDLLSPHVAAVELVNVLRPTVAIAVYITFVAHALQTCSGIRAA
LVQQPDYAELFVQEVRRFYPFFPAVVARASQDFEWEGMAFPEGRQVVLDLYGSNHDAATWADPQEF
RPERFRAWDEDSFNFIPQGGGDHYLGHRCPGEWIVLAIMKVAAHLLVNAMRYDVPDQDLSIDFARL
PALPKSGFVMRNVHIGG
1111111100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000
>P0AG80_4aq4_23_437
VTTIPFWHSMEGELGKEVDSLAQRFNAENPDYKIVPTYKGNYEQNLSAGIAAFRTGNAPAILQVYEV
GTATMMASKAIKPVYDVFKEAGIQFDESQFVPTVSGYYSDSKTGHLLSQPFNSSTPVLYYNKDAFKK
AGLDPEQPPKTWQDLADYAAKLKASGMKCGYASGWQGWIQLENFSAWNGLPFASKNNGFDGTDA
VLEFNKPEQVKHIAMLEEMNKKGDFSYVGRKDESTEKFYNGDCAMTTASSGSLANIREYAKFNYGV
GMMPYDADAKDAPQNAIIGGASLWVMQGKDKETYTGVAKFLDFLAKPENAAEWHQKTGYLPITKA
AYDLTREQGFYEKNPGADTATRQMLNKPPLPFTKGLRLGNMPQIRVIVDEELESVWTGKKTPQQAL
DTAVERGNQLLRRFEKSTKS
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000001
>B5L6K6_3ndj_0_413
MSHLADVSPPTACRVCGGGVQEFLDLGRQPLSDRFRKPDELDDEFTYRLAVGRCDSCEMVQLTEEVP
RDLMFHEVYPYHSSGSSVMREHFAMLARDFLATELTGPDPFIVEIGCNDGIMLRTIQEAGVRHLGFE
PSSGVAAKAREKGIRVRTDFFEKATADDVRRTEGPANVIYAANTLCHIPYVQSVLEGVDALLAPDGVF
VFEDPYLGDIVAKTSFDQIYDEHFFLFSATSVQGMAQRCGFELVDVQRLPVHGGEVRYTLARQGSRT
PSAAVAQLLAAEREQELSDMATLRAFAGNVVKIRDELTALLHRLRAEGRSVVGYGATAKSATVTNFC
GIGPDLVHSVYDTTPDKQNRLTPGAHIPVRPASAFSDPYPDYALLFAWNHAEEIMAKEQEFHQAGGR
WILYVPEVHIR
11111111100000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>Q21PD3_2yhg_519_932
GEGGRYRVIHTTDMGADPDDEQSLVRQLVMANEYDLEGIITTTGCWKKSTSNTAYVDRILNAYSQAY
PNLSKHAEGFPTPAYLDSINVMGQRGYGMGDVGSGKDSAGSNLIIAAVDKDDPRPVWATCWGGCNT
IAQAVWKVQNTRSQAQLDAFISKLRVYDILGQDNAGTWLAKNFPNLIYIRARSVYSWQPSDSYLDN
HIQSHGALGAVYPNRRYATEGDTPAFLHMANPGLNDPSVVSMGGWGGRFPSKQAGVRGMSCMSGE
DAVYDTYYMYTENGESIKRWSTAIHNDFQARMDWAIESNYSAANHHPVPVVNNDANEAVMYLNAS
AGSTVSLDASGSSDPDGDSLNYSWSHYGEADSYSGSVSISNSSSASANVQIPSNAGGKDIHILLTLRDN
GSPNLYAYRRVVINVQ
11100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000
>A7M066_4irt_18_430

CSQHLVEVGKGYSCTSVNTTVFRNNSLVTHGDEQYISYYDNDGYLVLGKRKLDSEQWTLHRTQYQG
NVKDAHNIISMMIDGEGYIHVSFDHHGHPLNYCRSIAPGSLELGDKMPMTGVDEGNVTYPEFYPLSG
GDLLFVYRSGSSGRGNLVMNRYSLKEHKWTRVQDILIDGENKRNAYWQLYVDEKGTIHLSWVWRE
TWHVETNHDICYARSFDNGVTWYKTSGERYELPIKLSNAEYACRLPQNCELINQTSMSADAGGNPYI
ATYWREPNSDVPQYRIVWNDGKMWHQRQITDRQTPFTLKGGGTKMIPIARPRIVVEGGEVFYIFRD
EERGSRVSMAHATDVGTSKWTITDLTDFSVDAWEPSHDTELWKKQRKLHLFVQHTRQGDGERTAE
IEPQMIYVLETNMDTNK
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011110000000000000000000000000000000000000000000000000
00000000000000000000000000000000001111100000000000001111
>C7MW73_4jbe_0_412
MTNEVAKAVEECARAAKSAAPSLSGAPDTAIDAALESMADRLLAHRDAVLAANAEDIAKAEAGGMS
AGLLDRLTITESRLTDMADQLRLLAGAPHPQRTVELSTLDGGLRLVERRRPVGVIGANYEARPNVTV
DVASQLVKSRNAGVLRTGSAALKSAQRLLEVVIRPALTDSGIDANVVQLVPRPEREAAGALVRLPDLV
PLVILRGSGESTRALALEAAQHGVRTLAHADGGGVLYVDEKADRDTVRSLVVNSLDRLGVCNRLNLL
LIHDAVYEEFWPVVSEALAERGVSPSLPPYDHPIGYEWALDSEREATVTVARVDGVAEAVRIANEETS
GLAAGIATEDARAAEEFFDGYQGTGVFWNAPTRLLDGFKLLGVPETGINLDKVPGPRGPVTYPDLYV
RQYAVLPVER
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>Q5L1E2_2oel_0_412
MSAVMATYLLHDETDIRKKAEGIALGLTIGTWTDLPALEQEQLRKHKGEVVAIEELGESERVNAYFG
KRLKRAIVKIAYPTVNFSADLPALLVTTFGKLSLDGEVRLLDLEFPDEWKRQFPGPRFGIDGIRDRVG
VHNRPLLMSIFKGMIGRDLAYLTSELKKQALGGVDLVKDDEILFDSELLPFEKRITEGKAALQEVYEQ
TGKRTLYAVNLTGKTFALKDKAKRAAELGADVLLFNVFAYGLDVLQALREDEEIAVPIMAHPAFSGAV
TPSEFYGVAPSLWLGKLLRLAGADFVLFPSPYGSVALEREQALGIARALTDDQEPFARAFPVPSAGIHP
GLVPLIIRDFGLDTIVNAGGGIHGHPDGAIGGGRAFRAAIDAVLAGRPLRAAAAENEALQKAIDRWGV
VEVEA
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
>A0QZY0_3c8z_0_411
MQSWSAPAIPVVPGRGPALRLFDSADRQVRPVTPGPTATMYVCGITPYDATHLGHAATYLTFDLVHR
LWLDAGHTVQYVQNVTDVDDPLFERAERDGIDWRTLGDRETQLFREDMAALRVLPPHDYVAATD

AIAEVVEMVEKLLASGAAYIVEDAEYPDVYFRADATAQFGYESGYDRDTMLTLFAERGGDPDRPGKS
DQLDALLWRAERPGEPSWPSPFGRGRPGWHVECSAIALTRIGTGLDIQGGGSDLIFPHHEYSAAHAE
SVTGERRFARHYVHTGMIGWDGHKMSKSRGNLVLVSQLRAQGVDPSAIRLGLFSGHYREDRFWSNE
VLDEANARLARWRSATALPEAPDATDVIARVRQYLADDLDTPKALAALDGWCTDALSYGGHDTESP
RLVATTVDALLGVDL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
11111111111110000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>B1MFF5_4hr3_0_410
MDFAPSARAAELIAAVREFIDAEVMPVERAVLAHHDELLGARAGTTAELWHVPPELDSLKAKARAA
GLWNLFLPDPELGGGLSNSEYAPLAEQMGRSLFAPTVFNCNAPDSGNMEVLHRYGSQEQKEVWLE
PLLEGDIRSAFCMTEPDVASSDATNMAATAVVEGDEVVINGRKWWSTGVGHPDCKVIIFMGLTDPN
AHRYARHSMVLVPMDTPGITVERMLPTMGFYDEPGGHGVVSFDNVRLPADAFIAGPGKGFEIAQGR
LGPGRVHHAMRLIGLAEVALEHACRRGLDRTAFGKPLVNLGGNRERIADARIAINQTRLLVLHAAWL
LDTVGIMGALSAVSEIKVAAPNMAQQVIDMAIQIHGGGGLSNDFPLAAAWVNARALRLADGPDEVH
RGVVARIELAKYAND
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011
>Q7N4T1_4hb9_0_410
MHVGIIGAGIGGTCLAHGLRKHGIKVTIYERNSAASSILPGYGIHINSFGKQALQECLPAENWLAFEEA
SRYIGGQSRFYNERMRLLAVHGGISPMAGKIISEQRLSISRTELKEILNKGLANTIQWNKTFVRYEHIE
NGGIKIFFADGSHENVDVLVGADGSNSKVRKQYLPFIERFDVGVSMIIGRARLTPALTALLPQNFRDGT
PNSIVPKSPDWLFISMWRAPVNIHVEASLAEIDNFIVWVYVAATDSLPDNITDFSAEALCDLVQSRMI
SWDPSLHTLVQQSDMENISPLHLRSMPHLLPWKSSTVTLLGDAIHNMTPMTGSGANTALRDALLLT
QKLASVASGHEELVKAISDYEQQMRAYANEIVGISLRSAQNAVIHFSIPPLKQRHLSIRRNKSQSHQHR
R
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011111111111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011111111111111111111111
>Q2T1U7_4g67_1_409
SQVSAGTVIYNAGMNPKAHEPASLPVPGPDALAQSEALAASLRAEIASAGGWIPFSRYMERVLYAPG
MGYYSGGAQKFGRRADDGSDFVTAPELSPLFAQTLARPVAQALDASGTRRVMEFGAGTGKLAAGLLT
ALAALGVELDEYAIVDLSGELRARQRETLGAQAPGLAARVRWLDALPERFEGVVVGNEVLDAMPVR
LVAKQARGWCERGVSIDDAGAFVFADRPFARAEEAARLAGIDADEGYVTETHDAAVAFVRTVCAML

ARGAAFFIDYGFPSHEYYHRQRAQGTLMCHYRHRAHGDPFVYPGLQDITAHVEFSAIHEAGVGAGA
DLLGYTSQARFLLNAGITDVLAEIDPSDAQHFLPAANAVQKLISEAEMGELFKVIAFSRGIDGALDAFA
RGDRSHTL
11111111111111111111100000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>Q6MHT0_3v39_37_445
KVYLNSMCHMAANSKTQQIQGDDNKDDKFPLASISKVVTTLWAVDRLGPDYRFKTKLHVTPTANG
SYDIHIEGSRDPLFGRNMSYFLISELNRMKITKIEKLTFDENFLLAWLAEEKPMIGGTTPKYDTVEQQ
ASIVRATLTSSFATAISPGYYTILKTKAARIGVQMSNRPKIDVRTISFVKKAEFQKNEKSTTMVLMSAP
LKTILKRMNNQSNNYIADNLYWNLGGTEAFNAYIAGKMQADTSDIEFHNGSGNNEGSVAKPVYNEA
TCEMMIKVLYSLDKSLSAKGYDLSDVMAVAAKDKASTVGSYGGVMAGSTTAKTGSVNKAKTLMGSV
STKNGEIYFAVLMHTDYDKSRSDWGVASQQIKNKVSQLINQNGGPKAIKYTEQLPLPFDKYSYLTKA
NTITTEKK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011111111
>Q8A1I2_3hrp_22_429
SDDNKTTGATYDPNQPVTVESFMPVEGKLREKVIVKGSNFGTDKSKVKVYFVDEAAERLSTVIGIDN
NTLYCLAPRQLPGGNRIKVIVDGKEVTTDGTFKYEQAQNVSTISGSASKDGNDDGDLASAKFKYMW
GIAAVGNNTVLAYQRDDPRVRLISVDDNKVTTVHPGFKGGKPAVTKDKQRVYSIGWEGTHTVYVYM
KASGWAPTRIGQLGSTFSGKIGAVALDETEEWLYFVDSNKNFGRFNVKTQEVTLIKQLELSGSLGTN
PGPYLIYYFVDSNFYMSDQNLSSVYKITPDGECEWFCGSATQKTVQDGLREEALFAQPNGMTVDED
GNFYIVDGFKGYCLRKLDILDGYVSTVAGQVDVASQIDGTPLEATFNYPYDICYDGEGGYWIAEAWGK
AIRKYAVE
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000
>P96559_1iir_0_406
MRVLLATCGSRGDTEPLVALAVRVRDLGADVRMCAPPDCAERLAEVGVPHVPVGPSARAPIQRAKPL
TAEDVRRFTTEAIATQFDEIPAAAEGCAAVVTTGLLAAAIGVRSVAEKLGIPYFYAFHCPSYVPSPYYP
PPPLGEPSTQDTIDIPAQWERNNQSAYQRYGGLLNSHRDAIGLPPVEDIFTFGYTDHPWVAADPVLA
PLQPTDLDAVQTGAWILPDERPLSPELAAFLDAGPPPVYLGFGSLGAPADAVRVAIDAIRAHGRRVIL
SRGWADLVLPDDGADCFAIGEVNHQVLFGRVAAVIHHGGAGTTHVAARAGAPQILLPQMADQPYYA
GRVAELGVGVAHDGPIPTFDSLSAALATALTPETHARATAVAGTIRTDGAAVAARLLLDAVSREKPTVS

A
0000000000000000000000000000000000000000000000000000000001111111000000000
0000000000000000000000000000000000000000000000000000000000000000000000000111
1111110000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011100000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000111111
>Q8PXX8_4dn7_0_406
MQTEQVSLKKRAESAAEKKAAFGEDFELEKYEEGSKVSKPIEDLQSLDEESKKTLLQVGVIPSEEGRS
GSFLVLDNAVSHSTLKDKNVELMSTHKAMEKYEWLKDYSWKLVQVDADKYTAKTYLEDADGYFIR
VPAGKKTSMPVQTCLMLGSKKAAQTVHNIIIVEEGATLDIITGCTTKKGVEEGLHLGISEMYIKKGGTL
NFTMIHNWAEQIGVRPRTVVSVEEGGTYVSNYICLKPVRSVQTYPTVRLEGEGAVTRLNTIAIAHPGS
ELDLGSKAIFNAPGTRAELISRTITIGGRLIARGEMIGNAKGAKGHLECKGLVLTDKGSQLAIPILEANV
DDIELTHEAAVGKIAKDQVEYLMARGLTEDEAVGMIIRGFLDVGIRGIPEELKEEIENTIAQTALGM
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>A9LI60_3g6m_20_425
RATPRMEDLASTDLSTRATGSINAVYFTNWGIYGRNFQPADLQASKILHVLYSFMNLRVDGTVYSGD
TYADLEKHYSDDSWNDIGTNAYGCVKQLYKLKKANRSLKIMLSIGGWTWSTNFPAAASTEATRATF
AKTAVEFMKDWGFDGIDVDWEYPASETDANNMVLLLQRVRQELDSYSATYANGYHFQLSIAAPAGP
SHYNVLKLAQLGSVLDNINLMAYDYAGSWDSVSGHQTNLYPSTSNPSSTPFSTKAAVDAYIAAGVPAS
KIILGMPIYGRAFVGTDGPGKPYSTIGEGSWESGIWDYKVLPKAGATVITDSAAGATYSYDSSSRTMIS
YDTPDMVRTKVSYAKGLGLGGSMFWEASADKTGSDSLIGTALSSMGSHDSTQNCLSYPNSKFDNIKN
SLS
1111111111111111110000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000
>Q9FN03_4d9s_0_404
MAEDMAADEVTAPPRKVLIISAGASHSVALLSGDIVCSWGRGEDGQLGHGDAEDRPSPTQLSALDG
HQIVSVTCGADHTVAYSQSGMEVYSWGWGDFGRLGHGNSSDLFTPLPIKALHGIRIKQIACGDSHCL
AVTMEGEVQSWGRNQNGQLGLGDTEDSLVPQKIQAFEGIRIKMVAAGAEHTAAVTEDGDLYGWGW
GRYGNLGLGDRTDRLVPERVTSTGGEKMSMVACGWRHTISVSYSGALYTYGWSKYGQLGHGDLEDH
LIPHKLEALSNSFISQISGGWRHTMALTSDGKLYGWGWNKFGQVGVGNNLDQCSPVQVRFPDDQKV
VQVSCGWRHTLAVTERNNVFAWGRGTNGQLGIGESVDRNFPKIIEALSVDGASGQHIESSNIDPSSG
KSWVSPAE
1111111111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q9UZR7_2jjq_0_404
MRGVIRKLNDDGFGVLKGILVPFSAPGDEIIVERVERVKKRRVASQWKLVRSSPLRVGPRCKAFGKCG
GCTLQHLNYDYQLEFKRKKLKRILGFEVEVVPSPKIFGHRNRIDLAITKDGIGFRERGKWWKIVDID
ECPVFGKTSREAIERLKEFIEEEKISVWNIKKDEGFLRYMVLREGKFTEEVMVNFVTKEGNLPDPTN
YFDFDSIYWSVNRSKSDVSYGDIERFWGKEFIRERLDDVDYLIHPNSFFQTNSYQAVNLVRKVSELVE
GEKILDMYSGVGTFGIYLAKRGFNVKGFDSNEFAIEMARRNVEINNVDAEFEVASDREVSVKGFDTVI
VDPPRAGLHPRLVKRLNREKPGVIVYVSCNPETFARDVKMLDYRIDEIVALDMFPHTPHVELVAKLV
0000000000000000000000000000000000000000000000000000011111111111000
0000000000000000000000000000000000000000000000000001100000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000
>Q9UXR8_1gpj_0_403
MEDLVCVGITHKEAEVEELEKARFESDEAVRDIVESFGLSGCVLLQTCNRVEVYASGARDRAEELGDL
IHDDAWVKRGSEAVRHLFRVACGLESMMVGEQEILRQVKKAYDRAARLGTLDEALKIVFRRAINLG
KRAREETRISEGAVSIGSAAVELAERELGSLHDKTVLVVGAGEMGKTVAKSLVDRGVRAVLVANRTYE
RAVELARDLGGEAVRFDELVDHLARSDVVVSATAAPHPVIHVDDVREALRKRDRRSPILIIDIANPRD
VEEGVENIEDVEVRTIDDLRVIARENLERRRKEIPKVEKLIEEELSTVEEELEKLKERRLVADVAKSLH
EIKDRELERALRRLKTGDPENVLQDFAEAYTKRLINVLTSAIMELPDEYRRAACRALRRASELNG
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
1111100000000000000000000000000000000000000000
>O08375_2gsd_0_401
MAKVVCVLYDDPINGYPTSYARDDLPRIDKYPDGQTLPTPKAIDFTPGALLGSVSGELGLRKYLESQG
HELVVTSSKDGPDSELEKHLHDAEVIISQPFWPAYLTAERIAKAPKLKLALTAGIGSDHVDLQAAIDN
NITVAEVTYCNSNSVAEHVVMMVLGLVRNYIPSHDWARNGGWNIADCVARSYDVEGMHVGTVAAG
RIGLRVLRLLAPFDMHLHYTDRHRLPEAVEKELNLTWHATREDMYGACDVVTLNCPLHPETEHMI
NDETLKLFKRGAYLVNTARGKLCDRDAIVRALESGRLAGYAGDVWFPQPAPNDHPWRTMPHNGM
TPHISGTSLSAQTRYAAGTREILECYFEGRPIRDEYLIVQGGGLAGVGAHSYSKGNATGGSEEAAKYEK
LDA
1000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000011

>Q2P9J6_3s8m_0_401
MIIHPKVRGFICTTTHPLGCERNVLEQIAATRARGVRNDGPKKVLVIGASSGYGLASRITAAFGFGADT
LGVFFEKPGTASKAGTAGWYNSAAFDKHAKAAGLYSKSINGDAFSDAARAQVIELIKTEMGGQVDLV
VYSLASPVRKLPGSGEVKRSALKPIGQTYTATAIDTNKDTIIQASIEPASAQEIEETITVMGGQDWELW
IDALEGAGVLADGARSVAFSYIGTEITWPIYWHGALGKAKVDLDRTAQRLNARLAKHGGGANVAVL
KSVVTQASAAIPVMPLYISMVYKIMKEKGLHEGTIEQLDRLFRERLYRQDGQPAEVDEQNRLRLDD
WELRDDVQDACKALWPQVTTENLFELTDYAGYKHEFLKLFGFGRTDVDYDADVATDVAFDCIELA
1111111111100000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000001
>Q9RHZ6_1urs_25_426
CGTSNGGQNTSPSTSSSSAKGEASALPKGQTITVWSWQTGPELQDVKQIAAQWAKAHGDKVIVVDQ
SSNPKGFQFYATAARTGKGPDVVFGMPHDNNGVFAEEGLMAPVPSGVLNTGLYAPNTIDAIKVNGT
MYSVPVSVQVAAIYYNKKLVPQPPQTWAEFVKDANAHGFMYDQANLYFDYAIIGGYGGYVFKDNNG
TLDPNNIGLDTPGAVQAYTLMRDMVSKYHWMTPSTNGSIAKAEFLAGKIGMYVSGPWDTADIEKA
KIDFGVTPWPTLPNGKHATPFLGVITAFVNKESKTQAADWSLVQALTSAQAQQMYFRDSQQIPALLS
VQRSSAVQSSPTFKAFVEQLRYAVPMPNIPQMQAVWQAMSILQNIIAGKVSPEQGAKDFVQNIQKGI
MAQGS
1111111111111111111111111111000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000111111
>C4M036_3oc9_0_400
MTYQPVDITTNTIPVTKEHYYRGLELISQGKTALITLAGGQGSRLGFEHPKGMFVLPFEIPKSIFQMTS
ERLLRLQELASEYSHQKNVMIHWFLMTNEETIEEINNYFKEHQYFGLSSEQIHCFPQGMLPVVDFN
GKILYEKKDKPYMAPNGHGGLFKALKDNGILEFMNEKGIKYSVAHNVDNILCKDVDPNMIGYMDLL
QSEICIKIVKKGFKEEKVGVLVKEQERIKVVEYTELTDELNKQLSNGEFIYNCGHISINGYSTSFLEKAA
EYQLPYHIAKKKVPFVNEQGIVIHPSENNGIKKEMFFFDVFPLATKVSIFEIQRFIEFSALKNSLNESF
DNVNTVKRDWYRLNIYYLKKAGAIVDDSKSPICEISFRKSFEEEGLKEFKGKTIQLPFILQ
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000
>D0G7Q4_3vrd_30_430
AGRKVVVVGGGTGGATAAKYIKLADPSIEVTLIEPNETYYTCYMSNEVIGGDRELASLRVGYDGLRAH
GIQVVHDSALGIDPDKKLVKTAGGAEFAYDRCVVAPGIDLLYDKIEGYSEALAAKLPHAWKAGEQTAL
LRRQLESMDDGGVVIIAPPAPPFRCPPGPYERASQIAHYLKAHKSKSKVIILDNSQTFSKQAQFTKGW

ERLYGFGTENALIEWHPGPDAAVVKTDTEAMTVETSFGETFKAAVINLIPPQRAGKIAQSASLTNDSG
WCPVDIRTFESSLQPGIHVIGDACNAAPMPKSAYSANSQAKVAAAAVVALLKGEEPGTPSYLNTCYSI
LAPGYGISIAAVYRPNAEGKAIEAVPDSGGITPVDAPDWVLEREVQYAHSWYNNIVHDTFG
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>F7P4T2_4dzi_1_399
TALNYRVIDVDNHYYEPLDSFTRHLDKKFKRRGVQMLSDGKRTWAVIGDRVNHFIPNPTFDPIIVPG
CLDLLFRGEIPDGVDPASLMKVERLADHPEYQNRDARIAVMDEQDIETAFMLPTFGCGVEEALKHDI
EATMASVHAFNLWLDEDWGFDRPDHRIIAAPIVSLADPTRAVEEVDFVLARGAKLVLVRPAPVPGLV
KPRSLGDRSHDPVWARLAEAGVPVGFHLSDSGYLHIAAAWGGKSTFEGFGAKDPLDQVLLDDRAIH
DTMASMIVHGVFTRHPKLKAVSIENGSYFVHRLIKRLKKAANTQPQYFPEDPVEQLRNNVWIAPYY
EDDLPELARVIGVDKILFGSDWPHGEGLASPVSFTAELKGFSESDIRKIMRDNALDLLGVQVGSAA
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000111111110000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000001111111
>Q83WF2_3sso_0_398
MTAQTEFDEATVQDVVRLAGGHDSELRELTQKYDPAMISRLLVAEILSRCPPPSNDTPVLVELAIVHG
SERFRHFLRVVRDSPIRPVGADEGFVGMLVEYELTELLRELFGVTHERPAGVRGTKLFPYLTDDEEAV
EQIGTYLLAAQQGTEAVLAGCGSRKPDLSELSSRYFTPKFGFLHWFTPHYDRHFRDYRNQQVRVLEI
GVGGYKHPEWGGGSLRMWKSFFPRGQIYGLDIMDKSHVDELRIRTIQGDQNDAEFLDRIARRYGPF
DIVIDDGSHINAHVRTSFAALFPHVRPGGLYVIEDMWTAYWPGFGGQADPQECSGTSLGLLKSLIDAI
QHQELPSDPNRSPGYVDRNIVGLHVYHNVAFVEKGRNDEGGIPTWIPRDFESLVQASSGGAT
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000
>Q83XN4_3tm1_0_398
MDPEAGSRARGLKGVHRVSANSGGIGGVPGPHNGLTDVPGVRVGHAGRTGDGWLTGVTVVLAPPGG
AVAAVDVRGGGPGTRETDALDPRNLVQTIDAVVLTGGSAFGLDAAGGVAAWLEEQGRGFPVGADPS
QVVPVVPAAALFDLGRGGTWRARPDAALGRAAVEAAAARPEGDPVEQGGVGAGTGAVVGGLKGGIG
TASVVLDSGATVAALAAVNAAGSAVDPATGVLYGARTGLPGEFAGYGVPDAIGADTHARARARLAEA
AEETARRRAGGAATLNTTLAVVATDATLTRAQAQKLAGTAHDGLARAVRPVHLLSDGDTVFALSTG
RRPLLPDRPDATAARAFGVHLEAGALNEVLAAGADVLTRAVVHAVLAATGVDTPGGVHPSYRELYAR
P
1111111111111111111111000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000001111111000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011
>A6TYH5_3l5a_1_398
YRYKPLLQSIHLPNGIKISNRFVLSPMTVNASTKEGYITKADLAYAARRSNSAGMQVTGAAYIEPYGK
LFEYGFNIDHDACIPGLTNMASTMKQHGSLAIIQLAHAGRFSNQAILNFGKVYGPSPMTLHSPIEHVV
IAMSHEKINSIIQQYRDATLRAIKAGFDGVEISIAQRLLIQTFFSTFSNRRTDHYGADSLKNRARLCLE
VMRAVQEVIDKEAPDNFILGFRATPEETRGSDLGYTIDEFNQLIDWVMDVSNIQYLAIASWGRHIYQ
NTSRTPGDHFGRPVNQIVYEHLAGRIPLIASGGINSPESALDALQHADMVGMSSPFVTEPDFVHKLA
EQRPHDINLEFSMADLEDLAIPHAAFKDIVKMMDYGEGLKKHTRDALRQLEQNYHDSSS
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000001111111111111111111
>P46154_1kol_1_398
SGNRGVVYLGSGKVEVQKIDYPKMQDPRGKKIEHGVILKVVSTNICGSDQHMVRGRTTAQVGLVLGH
EITGEVIEKGRDVENLQIGDLVSVPFNVACGRCRSCKEMHTGVCLTVNPARAGGAYGYVDMGDWTGG
QAEYLLVPYADFNLLKLPDRDKAMEKIRDLTCLSDILPTGYHGAVTAGVGPGSTVYVAGAGPVGLAAA
ASARLLGAAVVIVGDLNPARLAHAKAQGFEIADLSLDTPLHEQIAALLGEPEVDCAVDAVGFEARGH
GHEGAKHEAPATVLNSLMQVTRVAGKIGIPGLYVTEDPGAVDAAAKIGSLSIRFGLGWAKSHSFHTGQ
TPVMKYNRALMQAIMWDRINIAEVVGVQVISLDDAPRGYGEFDAGVPKKFVIDPHKTFSAA
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>Q8R9Q6_3okg_0_397
MTEGPYKLPPGWRWVRLGEVCLPTERRDPTKNPSTYFVYVDISAIDSTVGKIVSPKEILGQHAPSRA
RKVIRSGDVIFATTRPYLKNIALVPPDLDGQICSTGFCVIRANREFAEPEFLFHLCRSDFITNQLTASKM
RGTSYPAVTDNDVYNTLIPLPPLEEQRRIVAKVEALMERVREVRRLRAEAQKDTELLMQTALAEVFP
HPGADLPPGWRWVRLGEVCDIIMGQSPPSSTYNFEGNGLPFFQGKADFGDLHPTPRIWCSAPQKVA
RPGDVLISVRAPVGSTNVANLACCIGRGLAALRPRDSLERFWLLYYLHYLEPELSKMGAGSTFNAITK
KDLQNVFIPLPPLEEQRRIVAYLDQIQQQVAALKRAQAETEAELKRLEQAILDKAFRGDL
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111110000000000000000000000000
00000000000000000000000000000000000000000000

>Q9HWJ1_2x3n_0_397
MTDNHIDVLINGCGIGGAMLAYLLGRQGHRVVVVEQARRERAINGADLLKPAGIRVVEAAGLLAEVT
RRGGRVRHELEVYHDGELLRYFNYSSVDARGYFILMPCESLRRLVLEKIDGEATVEMLFETRIEAVQR
DERHAIDQVRLNDGRVLRPRVVVGADGIASYVRRRLLDIDVERRPYPSPMLVGTFALAPCVAERNRL
YVDSQGGLAYFYPIGFDRARLVVSFPREEARELMADTRGESLRRRLQRFVGDESAEAIAAVTGTSRFK
GIPIGYLNLDRYWADNVAMLGDAIHNVHPITGQGMNLAIEDASALADALDLALRDACALEDALAGY
QAERFPVNQAIVSYGHALATSLEDRQRFAGVFDTALQGSSRTPEALGGERSYQPVRSPAPLG
11100000000000000000000000000000000000011100000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000011111111111111111111111111111
>O66036_4dnx_0_396
MIKPVGSDELRPRFVYDPEQHHRLSSEAESLPSVIVSSQAAGNAVMLGAGYFSPLDGFMNLADALSS
AQSMTLTDGRFFPVPLLCLLESADAIAGATRIALRDPNVEGNPVLAVMDVTAVEQVSDAQMALMTE
QVYGTSDPKHPGVETFNSQGRTAISGPIQVLNFSYFQTDFPDTFRTAVEIRHEIQERGWQKIVAFQTR
NPMHRAHEELCKMAMEAVEADGVVIHMLLGQLKPGDIPAPVRDAAIRTMAELYFPPNTVMVTGYG
FDMLYAGPREAVLHAYFRQNMGATHFIIGRDHAGVGDYYGPFDAQTIFDDAVPTDVLAIEIFRADNTA
YSKKLGRVVMMRDAPDHTPDDFIQLSGTRVREMLGQGEAPPPEFSRPEVAQILMDYYRSLPQS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001
>Q8SD31_4gbf_374_770
AAGYNANWDDVQLKIDTLPVIVDDTSEYDRMELIQGVTAGFHAYAGFNSWWDCTIVRDDCVVHPK
SPANPYAVIPERLGYAQESWVSHRYGQYWVENGVAKSACIDETKVDEMIPIPVEWTAPIDGNIPSSIW
ANKTSLYMLTGKFIFSSTGESAIFEHQDLYRCVKGGTSELLVPAANKPWAIFTNTEDTYPGEMTVVVN
IGPASSADYVYTAYGIPSFISAFNDFVNNTIKPLNHVIDSMSIGCTHIIMHSIDPLVAPEDYTSESSKVHV
MEIIRNGNDTSFMVISPLWFDGRGNDVTANVNSNPIGGVSGLYTHYTVMYGDGQIAFFGNNDNGQC
DVDDHAGPYIQLAAGHNFTVTVNTLNQVMFWGDSPDNSLLWNGRGTRVKHIEPTPPTGP
11111111111111111111110000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000001111
>Q9K6Z0_3od1_0_396
MSKPFMFEKPFGMRDTLPEWYKTKKNICDQMTEEINLWGYDMIETPTLEYYETVGVVSAILDQQLF
KLLDQQGNTLVLRPDMTAPIARLVASSLKDRAYPLRLAYQSNVYRAQQNEGGKPAEFEQLGVELIGD
GTASADGEVIALMIAALKRAGLSEFKVAIGHVGYVNALLMDVVGNEQRADRLRRFLYEKNYVGYREH
VKSLNLSTIDKSRLMNLLSLRGGRAAIEEARGLIQTEKGKTALAEMTKLYEVLESYGASEYVKFDLTLV

LHMSYYTGVVFEGYGNRLGVPLCSGGRYDELLSKFHRPAQATGFGVRIDLLVEALNGEIISNGHEQTCI
LFSNERRFEAIELARKKRANGEAVVLQDLAGVTDVDAMSSNYQDVIYCIGTAGRGGEDA
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000011000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000011111000000000000000000000000000000000
00000000000000000000000000000000001111111
>A5F8C0_4dth_699_1094
NAQPNLGRSTKATPDFPTHFPKSSIGIENELAGLVVAMPANSAQKFGYVKSAQGDALFMLTKDMNQ
GSYQRPPSLQDGKNYQNWQTHTVELVSYPCEMDDKAAVETRKQAMLWLATHFTTHIDQSNHQPL
APIQSEDGRFVIEITNAKHVIAAGNGISAESQGQTITMTPSGQQATVGVAAKGFGTSATPELRLLESAP
WYQKSLKSQFASLTSAENLDDKELAANVFAYLTSIYLKTAELAKKFGIYINEWDPMSEQITPNANGLT
DPKVKNAWEILPRTKPSKIVEILSKSDAKAVMKHIKPQLQSRYSESLSKNVFQYFQDGGEVAGHGINN
ATVGDKHSPELAILFEFRTVPNELQSYLPKTESTTKSEVKLLDQFDPMKRKTVIQQVESLV
11111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000011111111111111111111111111111
>A7M397_4fs7_21_413
YDFVIDEITYNFTKEHGTVEVSGLREFLNLEPGDRNSSLPLVVNIPPVVTYKDNKYDVVSIGYAAFQG
CRKVTEIKIPSTVREIGEFAFENCSKLEIINIPDSVKMIGRCTFSGCYALKSILLPLMLKSIGVEAFKGCD
FKEITIPEGVTVIGDEAFATCESLEYVSLPDSMETLHNGLFSGCGKLKSIKLPRNLKIIRDYCFAECILLE
NMEFPNSLYYLGDFALSKTGVKNIIIPDSFTELGKSVFYGCTDLESISIQNNKLRIGGSLFYNCSGLKKV
IYGSVIVPEKTFYGCSSLTEVKLLDSVKFIGEEAFESCTSLVSIDLPYLVEEIGKRSFRGCTSLSNINFPLS
LRKIGANAFQGCINLKKVELPKRLEQYRYDFEDTTKFKWIK
00000000000000000000000000001111111111000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000
>C7H408_4gt6_27_419
ASDSPMAYTDGSYQFILNADNTATITKYTGNEHRITIPAQVTHGAYIYPVSKIGDRVFCNYKYVLTSVQ
IPDTVTEIGSNAFYNCTSLKRVTIQDNKPSCVKKIGRQAFMFCSELTDIPILDSVTEIDSEAFHHCEEL
DTVTIPEGVTSVADGMFSYCYSLHTVTLPDSVTAIEERAFTGTALTQIHIPAKVTRIGTNAFSECFALST
ITSDSESYPAIDNVLYEKSANGDYALIRYPSQREDPAFKIPNGVARIETHAFDSCAYLASVKMPDSVVSI
GTGAFMNCPALQDIEFSSRITELPESVFAGCISLKSIDIPEGITQILDDAFAGCEQLERIAIPSSVTKIPES
AFSNCTALNNIEYSGSRSQWNAISTDSGLQNLPVAPGSIDVTV
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111111111111
>O48917_1qrr_84_476
KRVMVIGGDGYCGWATALHLSKKNYEVCIVDNLVRRLFDHQLGLESLTPIASIHDRISRWKALTGKSI
ELYVGDICDFEFLAESFKSFEPDSVVHFGEQRSAPYSMIDRSRAVYTQHNNVIGTLNVLFAIKEFGEEC
HLVKLGTMGEYGTPNIDIEEGYITITHNGRTDTLPYPKQASSFYHLSKVHDSHNIAFTCKAWGIRATD
LNQGVVYGVKTDETEMHEELRNRLDYDAVFGTALNRFCVQAAVGHPLTVYGKGGQTRGYLDIRDTV
QCVEIAIANPAKAGEFRVFNQFTEQFSVNELASLVTKAGSKLGLDVKKMTVPNPRVEAEEHYYNAK
HTKLMELGLEPHYLSDSLLDSLLNFAVQFKDRVDTKQIMPSVSWKKIGVKTKSMTT
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000111
>A7UY07_4ghn_29_420
NYFYNDKQIDVENFYIAELPLTPSQFEEDFKEIHQIVMENYSLYQAKHLNMDSLYQACDARVRQAQT
TTDYGLIVQEYISALQCAHAITCYKRYTANQRVAFIEDFLFVDKPNDYLTEYGFQDKDRIIAINGLPYK
QWIEQNEKYTEASTVPHRRLRTAYDAFRSYADTLRNYTLLRGGDTLTVTLPLKQRDYFPDNEEQTV
ESRILQDSIGYLTIKTMMNPVMEDFKAVYPKVKDLPYLIIDVRRNGGGNSMNGVNICKYFIREAQPH
CVSKSYIMQPEADAYKGKIYLLTDTYTLSAAESFTLDMKESGNVTLIGEATGGDTGNGPRPFCTKQRT
YFRIPTRQPDVSSKGFPMEGIGIPPHHQVSQTVADFMKDEDTVLNYAVGLITEKQ
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000011
>O75151_3pua_59_450
STLKKKRTWHKHGPGQAPDVKPVQNGSQLFIKELRSRTFPSAEDVVARVPGSQLTLGYMEEHGFTE
PILVPKKDGLGLAVPAPTFYVSDVENYVGPERSVDVTDVTKQKDCKMKLKEFVDYYYSTNRKRVLNV
TNLEFSDTRMSSFVEPPDIVKKLSWVENYWPDDALLAKPKVTKYCLICVKDSYTDFHIDSGGASAW
YHVLKGEKTFYLIRPASANISLYERWRSASNHSEMFFADQVDKCYKCIVKQGQTLFIPSGWIYATLTPV
DCLAFAGHFLHSLSVEMQMRAYEVERRLKLGSLTQFPNFETACWYMGKHLLEAFKGSHKSGKQLPP
HLVQGAKILNGAFRSWTKKQALAEHEDELPEHFKPSQLIKDLAKEIRLSENASKAVRP
11111111111111111111000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001111111
>B2I5L9_3gt5_10_400
DFRSADFLRTHISDTMAFYHPRCIDSAGGFFHYFRDDGSIYNATHRHLVSSTRFVFNYAMAYLQFGTA

EYLDAVHHGLSYVRDVHRNPATGGYAWTLCDDRVEDDTNHCYGLAFVMLAYSCGLKVGIKQAREW
MDETWCLLERHFWDAEYGLYKDEADAQWNFTRYRGQNANMHMCEAMLAAYEASGEQRYLERAL
VLADRITRRQAAKADGLVWEHYDMRWEVDWDYNRDNPKHLFRPWGFQPGHQTEWAKLLLILDR
YIEVEWLVPVARSLFDVAVARSWDAVRGGLCYGFAPDGTICDDDKYFWVQAESLAAAALLATRSGDE
RYWQWYDRLWAYAWQHMVDHRYGAWYRLLDGDNRKYNDEKSPAGKTDYHTMGACHEVLNVV
WTKS
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000011
>Q9KLD5_2xwx_23_413
HGYVSAVENGVAEGRVTLCKFAANGTGEKNTHCGAIQYEPQSVEGPDGFPVTGPRDGKIASAESALA
AALDEQTADRWVKRPIQAGPQTFEWTFTANHVTKDWKYYITKPNWNPNQPLSRDAFDLNPFCVV
EGNMVQPPKRVSHECIVPEREGYQVILAVWDVGDTAASFYNVIDVKFDGNGPVLPDWNPAGQIIPS
MDLSIGDTVYTRVFDNDGENPAYRTELKIDSETLTKANQWSYALATKINQTQKQQRAGQLNGDQFV
PVYGTNPIYLKEGSGLKSVEIGYQIEAPQPEYSLTVSGLAKEYEIGEQPIQLDLTLEAQGEMSAELTVYN
HHQKPLASWSQAMTDGELKSITLELSEAKAGHHMLVSRIKDRDGNLQDQQTLDFMLVE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000111111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>P72178_2xts_40_429
AGTPDPLITEIQPWASEFGEAVDAHPYGLPIHFESHVKRQYVEWLTESPVSSINFTPIHALEGTITPQG
CAFERHHSGAIELSKQDYRLMINGLVEKPLVFTFEDLLRFPRTTTTAFCECAANGGMEWGGAQLEGC
QYTQGMIHNMEYVGVPLSVLLAEAGVKPEGKWLYAEGADASSNGRSFPMEKVMDDVMLAFFANGE
ALRKEHGYPARLVVPGWEGNMWVKWVRRLGIYDKAVESREETSKYTDLMPDGRARKWTWVMD
AKSVITSPSPQVPIRHGKGPLVISGLAWSGNGRITRVDVSLDGGKNWTTARITGQALPKALTRFHLDI
DWDGSEMLLQSRAVDETGYVQPTKDALRAIRGRNNVYHNNGIQTWWVKADGEVENVEIA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>Q9RET4_2v2f_263_652
SASNYPAYMDNYLKEVINQVEQETGYNLLTTGMDVYTNVDQEAQKHLWDIYNSDQYVSYPDDDLQ
VASTVVDVSNGKVIAQLGARHQASNVSFGTNQAVETNRDWGSAMKPITDYAPAIEYGVYDSTATMV
NDIPYNYPGTSTPVYNWDRAYFGNITLQYALQQSRNVTAVETLNKVGLDRAKTFLNGLGIDYPSMHY
ANAISSNTTESNKQYGASSEKMAAAYAAFANGGIYHKPMYINKVVFSDGSKKEFSDVGTRAMKETTA
YMMTEMMKTVLAYGTGRGAYLPWLAQAGKTGTSNYTDDEIEKHIKNTGYVAPDEMFVGYTRKYSM

AVWTGYSNRLTPIVGDGFLVAAKVYRSMITYLSEGSNPEDWNIPEGLYRNGEFVFKNGAR
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000001111100000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000001111111111100000000000000000000000000000000000000000
0000000000100000000000000000000011
>Q74P24_4ei7_0_388
MAGNFSEIESQGNISLKFGFLGLGMGGCAIAAECANKETQIKNNKYPYRAILVNTNSQDFNKIEIKNT
GNVRKIQLEGYEQGAARNPQVGEEAFVKHETKIFEAVKQEFEDRDFIWITCGLGGGTGTGALLKAIE
MLYEHDYNFGLLLTLPRDAEALKVLENATSRIRSIAMNQEAFGSIVLIDNAKLYRKFEEENPSALANE
YTSYSNKYIADALHEINLVTSSFTPFSDTHFDASEFAQVINTPGVLSLAKLELKSNQLDTENPLGYLTQ
LGNALEKGVLYDTEREELESAKKSALSIVTSPLRAGRLYNFSFLNQMENFLKERTPYVDERPIAPYVN
KHTTKKEEDIVKFYSVVAGLPLPKRVSDIIDEITRIKEEREQANSKKSN
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000011111
>Q89FH0_1tzz_0_388
MSVRIVDVREITKPISSPIRNAYIDFTKMTTSLVAVVTDVVREGKRVVGYGFNSNGRYGQGGLIRERFA
SRILEADPKKLLNEAGDNLDPDKVWAAMMINEKPGGHGERSVAVGTIDMAVWDAVAKIAGKPLFR
LLAERHGVKANPRVFVYAAGGYYYPGKGLSMLRGEMRGYLDRGYNVVKMKIGGAPIEEDRMRIEAV
LEEIGKDAQLAVDANGRFNLETGIAYAKMLRDYPLFWYEEVGDPLDYALQAALAEFYPGPMATGEN
LFSHQDARNLLRYGGMRPDRDWLQFDCALSYGLCEYQRTLEVLKTHGWSPSRCIPHGGHQMSLNIA
AGLGLGGNESYPDLFQPYGGFPDGVRVENGHITMPDLPGIGFEGKSDLYKEMKALAE
1000000000000000011111111100000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>Q9KM65_2wka_0_388
MNKPQLPDFIQNKIDHYIENYFDINKNGKHLVLGKQASPDDIILQSNDYLALANHPLIKARLAKSLLE
EQQSLFMSASFLQNDYDKPMIEKRLAKFTGFDECLLSQSGWNANVGLLQTICQPNTNVYIDFFAHM
SLWEGARYANAQAHPFMHNNCDHLRMLIQRHGPGIIVVDSIYSTLGTIAPLAELVNISKEFGCALLVD
ESHSLGTHGPNGAGLLAELGLTREVHFMTASLAKTFAYRAGAIWCNNEVNRCVPFISYPAIFSSTLLP
YEAAGLETTLEIIESADNRRQHLDRMARKLRIGLSQLGLTIRSESQIIGLETGDERNTEKVRDYLESNG
VFGSVFCRPATSKNKNIIRLSLNSDVNDEQIAKIIEVCSDAVNYGDFYFR
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000
>A1JMA5_3pe7_0_387
MAKGKQIPLTFDTYQDASTGAQVTRLTPPDVTCHRNYFYQKCFTRDGSKLLFGGAFDGPWNYYLLD
LNTQVATQLTEGRGDNTFGGFLSPDDDALFYVKDGRNLMRVDLATLEENVVYQVPAEWVGYGTWV
ANSDCTKLVGIEIRREDWVPLTDWKKFHEFYFTKPCCRLMRVDLKTGESTVILQENQWLGHPIYRP
YDDSTVAFCHEGPHDLVDARMWLINEDGTNMRKVKTHAEGESCTHEFWVPDGSALVYVSYLKGSP
DRFIYSADPETLENRQLTSMPACSHLMSNYDGSLMVGDGSDAPVDVQDDSGYKIENDPFLYVFNMK
NGTQHRVARHDTSWKVFEGDRQVTHPHPSFTPDDKQILFTSDVHGKPALYLATLPESVWK
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000111111111111000000000000000000000000000000000000000
000000000000000000000000000000000
>P94182_1ykd_57_444
VTEVEQKLQIVHQTLSMLDSHGFENILQEMLQSITLKTGELLGADRTTIFLLDEEKQELWSIVAAGEG
DRSLEIRIPADKGIAGEVATFKQVVNIPFDFYHDPRSIFAQKQEKITGYRTYTMLALPLLSEQGRLVAVV
QLLNKLKPYSPPDALLAERIDNQGFTSADEQLFQEFAPSIRLILESSRSFYIATQKQRAAAAMMKAVK
SLSQSSLDLEDTLKRVMDEAKELMNADRSTLWLIDRDRHELWTKITQDNGSTKELRVPIGKGFAGIV
AASGQKLNIPFDLYDHPDSATAKQIDQQNGYRTCSLLCMPVFNGDQELIGVTQLVNKKKTGEFPPYN
PETWPIAPECFQASFDRNDEEFMEAFNIQAGVALQNAQLFATVKQQEQ
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000001111
>D2PU28_4h3v_0_386
MTNLGIGLIGYAFMGAAHSQAWRSAPRFFDLPLHPDLNVLCGRDAEAVRAAAGKLGWSTTETDWR
TLLERDDVQLVDVCTPGDSHAEIAIAALEAGKHVLCEKPLANTVAEAEAMAAAAAKAAAGGIRSMV
GFTYRRVPAIALARKLVADGKIGTVRHVRAQYLQDWIADPEAPLSWRLDKDKAGSGALGDIGAHIVD
LTQFITGDRIAEVSGRLETFVKERPKPEAHSGLSGTASAERGPVTVDDAAVFLATFRGGALGVFEATR
FATGRKNAIRIEINGSKGSLAFDFEDMNLLHFYDATEDPETAGFRRILATEPVHPYVAGWWPPGHLL
GYEHGFTHQVVDLVTAIAEGKDPEPSFADGLQVQRVLAAVETSSTSRQWQEIPE
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000
>O75936_3o2g_0_386
MACTIQKAEALDGAHLMQILWYDEEESLYPAVWLRDNCPCSDCYLDSAKARKLLVEALDVNIGIKGL
IFDRKKVYITWPDEHYSEFQADWLKKRCFSKQARAKLQRELFFPECQYWGSELQLPTLDFEDVLRY

DEHAYKWLSTLKKVGIVRLTGASDKPGEVSKLGKRMGFLYLTFYGHTWQVQDKIDANNVAYTTGKL
SFHTDYPALHHPPGVQLLHCIKQTVTGGDSEIVDGFNVCQKLKKNNPQAFQILSSTFVDFTDIGVDYC
DFSVQSKHKIIELDDKGQVVRINFNNATRDTIFDVPVERVQPFYAALKEFVDLMNSKESKFTFKMNP
GDVITFDNWRLLHGRRSYEAGTEISRHLEGAYADWDVVMSRLRILRQRVENGN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011
>Q63273_3om1_19_405
VLSSLRMAAILDDQTVCGRGERLALALAREQINGIIEVPAKARVEVDIFELQRDSQYETTDTMCQILP
KGVVSVLGPSSSPASASTVSHICGEKEIPHIKVGPEETPRLQYLRFASVSLYPSNEDVSLAVSRILKSFNY
PSASLICAKAECLLRLEELVRGFLISKETLSVRMLDDSRDPTPLLKEIRDDKVSTIIIDANASISHLVLRK
ASELGMTSAFYKYILTTMDFPILHLDGIVEDSSNILGFSMFNTSHPFYPEFVRSLNMSWRENCEASTY
PGPALSAALMFDAVHVVVSAVRELNRSQEIGVKPLACTSANIWPHGTSLMNYLRMVEYDGLTGRVE
FNSKGQRTNYTLRILEKSRQGHREIGVWYSNRTLAMNATTLDI
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000011111111111
>P23342_1zov_1_386
STHFDVIVVGAGSMGMAAGYYLAKQGVKTLLVDSFDPPHTNGSHHGDTRIIRHAYGEGREYVPFALR
AQELWYELEKETHHKIFTQTGVLVYGPKGGSAFVSETMEAANIHSLEHELFEGKQLTDRWAGVEVP
DNYEAIFEPNSGVLFSENCIQAYRELAEAHGATVLTYTPVEDFEVTEDLVTIKTAKGSYTANKLVVSM
GAWNSKLLSKLDVEIPLQPYRQVVGFFECDEAKYSNNAHYPAFMVEVENGIYYGFPSFGGSGLKIGY
HSYGQQIDPDTINREFGAYPEDEANLRKFLEQYMPGANGELKKGAVCMYTKTPDEHFVIDLHPKYS
NVAIAAGFSGHGFKFSSVVGETLAQLATTGKTEHDISIFSLNRDALKKEAVK
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011111
>Q0P823_2rij_0_385
MINTKEDFLLLIKQIEQKSGYKKPKAFGIARLDRGQLNKNKILQASFALINYEQNFGSAAIMLEAFMQ
RGVEIDFNASEFVQTLKLEDIDFALSCFKPFLEEDGHQNIDLLKIIKDKFKDDEFSFVCLFEDKEPLSV
ESIYLKLYLLSTKKVPLRSINLNGAFGLLSNVAWSDDKPIELEYLRANEMRLKMSNQYPKIDFVDKFP
RFLAHIIPEDNTRILESSKVRMGASLAAGTTIMPGASYVNFNAGTTGACMVEGRISSSAIVGEGSDVG
GGASILGVLSGTSGNAISVGKACLLGANSVTGIPLGDNCIVDAGIAVLEGTKFLLKDAEELAKLNPYFN
FDKEIYKGLELKGLNGLHFRQDSISGAMIVALNKKAVKLNEALH
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000111111
>Q8WZM4_1n9g_0_385
MYSVLKQSIRPRLLATHNQFRTMITAQAVLYTQHGEPKDVLFTQSFEIDDDNLAPNEVIVKTLGSPIN
PSDINQIQGVYPSKPAKTTGFGTAEPAAPCGNEGLFEVIKVGSNVSSLEAGDWVIPSHVNFGTWRTH
ALGNDDDFIKLPNPAQSKANGKPNGLTINQGATISVNPLTAYLMLTHYVKLTPGKDWFIQNGGTSAV
GKYASQIGKLLNFNSISVIRDRPNLDEVVASLKELGATQVITEDQNNSKEFGPTIKEWIKQSGGEAKLA
LNCVGGKSSTGIARKLNNNGLMLTYGGMSFQPVTIPTSLYIFKNFTSAGFWVTELLKNNKELKTSTL
NQIIAWYEEGKLTDAKSIETLYDGTKPLHELYQDGVANSKDGKQLITY
11111111111111111111110000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000
>B4EEQ5_4b6z_0_383
MTLSITSNFDAGAIDVVSCERPDAIRLRVRGDNRSEFAQWFYYRLTGARGERCVMTFENAAECAYPS
GWRNYHAVASYDRVDWFRVPTTFDGKTMTIDHTPEFDSIYYAYFEPYSEERHAAFLGAVQQLPQAS
VVELGRTVEGRPMSLLTLGTPETDDAPKKKVWIIARQHPGESMAEWFVEGLVKRLAGWGDWAGD
PVARKLYDRVTFYIVPNMNPDGSVHGNLRTNAAGANLNREWMAPDAERSPEVLAVRDAIHAIGCD
MFFDIHGDEDLPYVFVAGSEMLPSFTEQQGKEQAAFIDAFKVASPDFQTEHGYAASKYKEDALKLAS
KYIGHQFGCLSLTLEMPFKDNANLPDERVGWNGERSAALGAAMLAAILVHVDTFA
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000001000000000000000000000000000000000000
00000000000000000000000000000
>P12998_1bs0_0_383
MSWQEKINAALDARRAADALRRRYPVAQGAGRWLVADDRQYLNFSSNDYLGLSHHPQIIRAWQQG
AEQFGIGSGGSGHVSGYSVVHQALEEELAEWLGYSRALLFISGFAANQAVIAAMMAKEDRIAADRLS
HASLLEAASLSPSQLRRFAHNDVTHLARLLASPCPGQQMVVTEGVFSMDGDSAPLAEIQQVTQQHN
GWLMVDDAHGTGVIGEQGRGSCWLQKVKPELLVVTFGKGFGVSGAAVLCSSTVADYLLQFARHLIYS
TSMPPAQAQALRASLAVIRSDEGDARREKLAALITRFRAGVQDLPFTLADSCSAIQPLIVGDNSRALQ
LAEKLRQQGCWVTAIRPPTVPAGTARLRLTLTAAHEMQDIDRLLEVLHGNG
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000

>Q59KC5_3dra_0_383
MNQLLINKHEKFFNRCLIGLPSTAQSEDSNKLAIIYFCLHGLQLIQKFQFTNQELIYYRNFIINQFMIE
NNQIISFRSTHYFQKTNQKYDCPNLSSTLFALYNLLILKSPYHTIINRKKIMNFLCKCQVKDGINKGGF
VPTLYYDEENGDYKQYGEPDLRVCYMALLIRHLMKYDANNNNNNREDSNETDIDLISLQQFILDRIN
INGGFSSTIMDESHLGFTFCAIASLKLLNYPLEKLKSTKEWLIHRQVDYPENLYPKDGNGDNYEYYR
NIDIGGFNGRENKLSDTCYSWWCTGSLYNIDVNFIKLVDLNKAEDYLLNKTQNQLFGGFGRDPDSTP
DPMHSYLALASLSLWNHEKFALQEINPILTITKESYQFFKEEIKY
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000011111111111110000000000000000000000000
0000000000000000000000000000000000000000000001111110000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>Q9P8T1_2yha_505_937
VKVARPCRKIEKWTYLELKGSKANEGVPQAMTAFAEFLNRTGIPINPRFSPGMSMSVPGSEKEFFAK
VKELMSSHQFVVVLLPRKDVAIYNMVKRAADITFGVHTVCCVAEKFLSTKGQLGYFANVGLKVNLKF
GGTNHNIKTPIPLLAKGKTMVVGYDVTHPTNLAAGQSPASAPSIVGLVSTIDQHLGQWPAMVWNNP
HGQESMTEQFTDKFKTRLELWRSNPANNRSLPENILIFRDGVSEGQFQMVIKDELPLVRAACKLVYP
AGKLPRITLIVSVKTARSAHYTVLVDEIFRADYGNKAADTLEQLTHDMCYLFGRATKAVSICPPAYYA
DLVCDRARIHQKELFDALDENDSVKTDDFARWGNSGAVHPNLRNSMYYI
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000001111
1100000000000000000000000000000001111111110000000000000000000000000000
00000000000000000000000000
>Q9ZII9_4de8_97_480
GLTNRLNATSNYSEYSLSVAVLADSEIENVTQLTSVTAPTGTDNENIQKLLADIKSSQNTDLTVNQSSS
YLAAYKSLIAGETKAIVLNSVFENIIELEYPDYASKIKKIYTKGFTKKVEAPKTSKNQSFNIYVSGIDTYG
PISSVSRSDVNILMTVNRDTKKILLTTTPRDAYVPIADGGNNQKDKLTHAGIYGVDSSIHTLENLYGVD
INYYVRLNFTSFLKMIDLLGGVDVHNDQEFSALHGKFHFPVGNVHLDSEQALGFVRERYSLADGDR
DRGRNQQKVIVAILQKLTSTEALKNYSTIINSLQDSIQTNVPLETMINLVNAQLESGGNYKVNSQDLK
GTGRMDLPSYAMPDSNLYVMEIDDSSLAVVKAAIQDVMEGR
1111111111111000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000
>A3ZCM2_3n29_0_381
MFYEKIQTPAYILEEDKLRKNCELLASVGEKSGAKVLLALKGFAFSGAMKIVGEYLKGCTCSGLWEAK
FAKEYMDKEIHTYSPAFKEDEIGEIASLSHHIVFNSLAQFHKFQSKTQKNSLGLRCNVEFSLAPKELY
NPCGRYSRLGIRAKDFENVDLNAIEGLHFHALCEESADALEAVLKVFEEKFGKWIGQMKWVNFGGG
HHITKKGYDVEKLIALCKNFSDKYGVQVYLEPGEAVGWQTGNLVASVVDIIENEKQIAILDTSSEAHM

PDTIIMPYTSEVLNARILATRENEKISDLKENEFAYLLTGNTCLAGDVMGEYAFDKKLKIGDKIVFLDQ
IHYTIVKNTTFNGIRLPNLMLLDHKNELQMIREFSYKDYSLRN
1000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000001111111111000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>Q2A1P5_4hy1_0_381
MQNYNAKSIEVLTGLDPVKKRPGMYTNIENPNHLIQEIIDNSVDEVLAGFASKINITLYEDNSIEVADD
GRGMPVDIHPEHKMSGIELIMTKLHSGGKFSNKNYTHSGGLHGVGVSVVNALSTRLEAEIKRDGNV
YHIVFEDGFKTKDLEIIDNVGKKNTGTKIRFWPNKKYFDDIKVNFKALKNLLEAKAILCKALTIKYSN
EIKKEKLTWHFETGLKGYLDHKLEAETLPAEPFIIDNFSNGDSYLDAVFCWCEDLSESIKNSYVNLIP
TPQDGTHVTGLKNGIYDAIKAYIEKNSLSVKNIKITANDSFAQLNYVISVKITNPQFAGQTKEKLSNKD
VTNFVATAVKDLLTIWLNQNPDEARQIVENISKVAQKRINAD
1111110000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000001111110000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011111000000000000000000000000000000000000000000000000000
0000000000000000000000011111
>Q9Y259_3lq3_13_394
VGGCLAKDGLQQSKCPDTTPKRRRASSLSRDAERRAYQWCREYLGGAWRRVQPEELRVYPVSGGLS
NLLFRCSLPDHLPSVGEEPREVLLRLYGAILQGVDSLVLESVMFAILAERSLGPQLYGVFPEGRLEQYIP
SRPLKTQELREPVLSAAIATKMAQFHGMEMPFTKEPHWLFGTMERYLKQIQDLPPTGLPEMNLLE
MYSLKDEMGNLRKLLESTPSPVVFCHNDIQEGNILLLSEPENADSLMLVDFEYSSYNYRGFDIGNHF
CEWVYDYTHEEWPFYKARPTDYPTQEQQLHFIRHYLAEAKKGETLSQEEQRKLEEDLLVEVSRYAL
ASHFFWGLWSILQASMSTIEFGYLDYAQSRFQFYFQQKGQLTSVHSSS
1111111111111111111111111110000000000000000000000000000001111100000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000001110000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000001111111
>B5CY74_4ak7_21_401
NTQTIAVDDTQNYDERKADSLGIPKGNKLSAAMKRAMKWENHDNKWFFEYKMEPLKGDLAYEEG
VVRRDPSAMLKIGDTYYVWYSKSYGPTQGFAGDIEKDKVFPWDRCDIWYATSKDGLTWKEQGIAVK
RGEKGAYDDRSVFTPEVMEWKGKYYLCYQAVKSPYTVRVKNTIGMACADSPEGLWTKTDKPVLEPS
DTGEWEGDEDNRFKVVSKGDFDSHKVHDPCIIPYNGKFYMYYKGERMGEEITWGGREIKHGVAIAE
NPMGPYVKSEYNPISNSGHEVCVWPYKGGIASLITTDGPEKNTLQWSPDGINFEIMSVVKGAPHAIG
LNRSADAEKEPTEILRWGLTHIYNSSDYQSIMRFSTWTLQTHTAKGESKERK
1111111100000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>Q6Q0L3_4ind_0_380
MSVTTLGQSFPANAKVKYYYKLSEKQDLDAFVNSIFVGSYKLKQISYLLYGNTKIVSAPVVPLGPNASII
IDDELQEGLYLIRIKVYNTNSFSVTVTPFFNNNNTMTYSIGANSEFEIYDIFTKEQGNIYYIQLPPGLAI
LEFSLERVFEKGNRINIPKIIHTSGNGYISFRLRKGTYAIKMPYSYNNTTSTTFTNFQFGTISTSVATIPL
VISSIPANGSGSGTFLVYLKITGDYEDVKFSVTYGGGLGVPFTFGLEVEEINELVENTNFVTQSVTLSGS
QVTQSILNVQGSGSHLRLKYASVSGLTTAVTQCQLQATNLNRSTTYSTVWDFIAGGSSTPPSWDIREI
NSIQLVANGGSSTSSVTITLILVYEQIAGELS
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000010000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000
>Q9JYL2_1vgy_1_380
TETQSLELAKELISRPSVTPDDRDCQKLLAERLHKIGFAAEELHFGDTKNIWLRRGTKAPVVCFAGH
TDVVPTGPVEKWDSPPFEPAERDGRLYGRGAADMKTSIACFVTACERFVAKHPNHQGSIALLITSDE
EGDALDGTTKVVDVLKARDELIDYCIVGEPTAVDKLGDMIKNGRRGSLSGNLTVKGKQGHIAYPHLAI
NPVHTFAPALLELTQEVWDEGNEYFPPTSFQISNINGGTGATNVIPGELNVKFNFRFSTESTEAGLKQ
RVHAILDKHGVQYDLQWSCSGQPFLTQAGKLTDVARAAIAETCGIEAELSTTGGTSDGRFIKAIAQELI
ELGPSNATIHQINENVRLNDIPKLSAVYEGILARLLAGNAV
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000011111
>Q988D3_3alj_0_378
MANVNKTPGKTRRAEVAGGGFAGLTAAIALKQNGWDVRLHEKSSELRAFGAGIYLWHNGLRVLEGL
GALDDVLQGSHTPPTYETWMHNKSVSKETFNGLPWRIMTRSHLHDALVNRARALGVDISVNSEAV
AADPVGRLTLQTGEVLEADLIVGADGVGSKVRDSIGFKQDRWVSKDGLIRLIVPRMKKELGHGEWD
NTIDMWNFWPRVQRILYSPCNENELYLGLMAPAADPRGSSVPIDLEVWVEMFPFLEPCLIEAAKLKT
ARYDKYETTKLDSWTRGKVALVGDAAHAMCPALAQGAGCAMVNAFSLSQDLEEGSSVEDALVAWE
TRIRPITDRCQALSGDYAANRSLSKGNMFTPAALEAARYDPLRRVYSWPQ
11111111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000
>O88917_4dlq_459_836
PAPSTRRPPAPNLHVSPELFCEPREVRRVQWPATQQGMLVERPCPKGTRGIASFQCLPALGLWNPRG

PDLSNCTSPWVNQVAQKIKSGENAANIASELARHTRGSIYAGDVSSSVKLMEQLLDILDAQLQALRPI
ERESAGKNYNKMHKRERTCKDYIKAVVETVDNLLRPEALESWKDMNATEQVHTATMLLDVLEEGA
FLLADNVREPARFLAAKQNVVLEVTVLSTEGQVQELVFPQEYASESSIQLSANTIKQNSRNGVVKVVF
ILYNNLGLFLSTENATVKLAGEAGTGGPGGASLVVNSQVIAASINKESSRVFLMDPVIFTVAHLEAKN
HFNANCSFWNYSERSMLGYWSTQGCRLVESNKTHTTCACSHL
11111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000111111111
11000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q64W45_3slr_1_377
YTFKELKRATKQDTVSLPKLKVALLGDTATQLLATAIKGEGILRNYNIELWEAEYNQVERQIMDPTSD
YYQFEPDYTIIFHSTHKLLEKHSLVNSDLQNKLADDRLDFVRLLCEQGIGRVIYYNYPEIEDTIWGSYA
TKVQSSFTYQLTKLNYELMNISQAYPNFFICNLAGISAKYGRNFMFDSSVYVNTEIILSLDALPIISSRTI
DIIAAIQGKFKKCLILDLDNTIWGGVVGDDGWENIQVGHGLGIGKAFTEFQEWVKKLKNRGIIIAVCS
KNNEGKAKEPFERNPEMVLKLDDIAVFVANWENKADNIRTIQRTLNIGFDSMVFLDDNPFERNMV
REHVPGVTVPELPEDPGDYLEYLYTLNLFETASFSE
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>Q93VR3_2c5e_0_376
MGTTNGTDYGAYTYKELEREQYWPSENLKISITGAGGFIASHIARRLKHEGHYVIASDWKKNEHMT
EDMFCDEFHLVDLRVMENCLKVTEGVDHVFNLAADMGGMGFIQSNHSVIMYNNTMISFNMIEAAR
INGIKRFFYASSACIYPEFKQLETTNVSLKESDAWPAEPQDAYGLEKLATEELCKHYNKDFGIECRIGR
FHNIYGPFGTWKGGREKAPAAFCRKAQTSTDRFEMWGDGLQTRSFTFIDECVEGVLRLTKSDFREP
VNIGSDEMVSMNEMAEMVLSFEEKKLPIHHIPGPEGVRGRNSDNNLIKEKLGWAPNMRLKEGLRIT
YFWIKEQIEKEKAKGSDVSLYGSSKVVGTQAPVQLGSLRAADGKE
11111111111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011
>Q9VB68_2xxl_0_376
MMIASSLAVLYGIAIVSSMGVQSARADYADDCTTPDGDQGQCMPFSSCRTIEERLTEAQKAGQKVPA
DYASYLQKALCGEFNGVRHFCCPSANIQHNSKVMSLFKDENFDCGNFLSQRVSNGYEVKLSSRPWM
ALLRYQQFGESRFLCGGAMISERYILTAAHCVHGLQNDLYEIRLGEHRISTEEDCRQQGRKKKCAPPV
VNVGIEKHLIHEKYDARHIMHDIALLKLNRSVPFQKHIKPICLPITDELKEKAEQISTYFVTGWGTTE
NGSSSDVLLQANVPLQPRSACSQAYRRAVPLSQLCVGGGDLQDSCKGDSGGPLQAPAQYLGEYAPKM
VEFGIVSQGVVTCGQISLPGLYTNVGEYVQWITDTMASNGL

11111111111111111111111110000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>P81453_3iu0_31_406
DNGAGEETKSYAETYRLTADDVANINALNESAPAASSAGPSFRAPDSDDRVTPPAEPLDRMPDPYRP
SYGRAETVVNNYIRKWQQVYSHRDGRKQQMTEEQREWLSYGCVGVTWVNSGQYPTNRLAFASFD
EDRFKNELKNGRPRSGETRAEFEGRVAKESFDEEKGFQRAREVASVMNRALENAHDESAYLDNLKK
ELANGNDALRNEDARSPFYSALRNTPSFKERNGGNHDPSRMKAVIYSKHFWSGQDRSSSADKRKY
GDPDAFRPAPGTGLVDMSRDRNIPRSPTSPGEGFVNFDYGWFGAQTEADADKTVWTHGNHYHAP
NGSLGAMHVYESKFRNWSEGYSDFDRGAYVITFIPKSWNTAPDKVKQGWP
11111110000000000000000000000001111111111111110000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q5ZWI2_4ezi_27_402
ALEHEKLVNYIALGEFSRETAEIALKKMPPLDTLTVHYDLQLYKINYKTQSPDGNLTIASGLVAMPIHP
VGQVGIISYQHGTRFERNDVPSRNNEKNYIYLAAYGNSAGYMTVMPDYLGLGDNELTLHPYVQAETL
ASSSIDMLFAAKELANRLHYPISDKLYLAGYSEGGFSTIVMFEMLAKEYPDLPVSAVAPGSAPYGWEE
TMHFVMLEPGPRATAYLAYFFYSLQTYKSYWSGFDEIFAPPYNTLIPELMDGYHAVDEILQALPQDP
LLIFQPKFSNGIISKTDRNTEILKINFNHYDFKPTAPLLLVGTKGDRDVPYAGAEMAYHSFRKYSDFV
WIKSVSDALDHVQAHPFVLKEQVDFFKQFERQEAMNK
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000001
>O67135_1c3p_0_374
MKKVKLIGTLDYGKYRYPKNHPLKIPRVSLLLRFLDAMNLIDEKELIKSRPATKEELLLFHTEDYINT
LMEAERCQCVPKGAREKYNIGGYENPVSYAMFTGSSLATGSTVQAIEEFLKGNVAFNPAGGMHHAFK
SRANGFCYINDPAVGIEYLRKKGFKRILYIDLDAHHCDGVQEAFYDTDQVFVLSLHQSPEYAFPFEKGF
LEEIGEGKGKGYNLNIPLPKGLNDNEFLFALEKSLEIVKEVFEPEVYLLQLGTDPLLEDYLSKFNLSNV
AFLKAFNIVREVFGEGVYLGGGGYHPYALARAWTLIWCELSGREVPEKLNNKAKELLKSIDFEEFDD
EVDRSYMLETLKDPWRGGEVRKEVKDTLEKAKASS
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000011
>P07332_4e93_447_821
IPEVQKPLHEQLWYHGAIPRAEVAELLVHSGDFLVRESQGKQEYVLSVLWDGLPRHFIIQSLDNLYRL
EGEGFPSIPLLIDHLLSTQQPLTKKSGVVLHRAVPKDKWVLNHEDLVLGEQIGRGNFGEVFSGRLRA
DNTLVAVKSCRETLPPDLKAKFLQEARILKQYSHPNIVRLIGVCTQKQPIYIVMELVQGGDFLTFLRTE
GARLRVKTLLQMVGDAAAGMEYLESKCCIHRDLAARNCLVTEKNVLKISDFGMSREEADGVYAASG
GLRQVPVKWTAPEALNYGRYSSESDVWSFGILLWETFSLGASPYPNLSNQQTREFVEKGGRLPCPEL
CPDAVFRLMEQCWAYEPGQRPSFSTIYQELQSIRKRHR
00000000000000000000000000000000000000011000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000001111111111111110000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>Q9KWY4_2w5v_0_374
MKLKKIVFTLIALGLFSCKTTSVLVKNEPQLKTPKNVILLISDGAGLSQISSTFYFKEGTPNYTQFKNIG
LIKTSSSREDVTDSASGATAFSCGIKTYNAAIGVADDSTAVKSIVEIAALNNIKTGVVATSSITHATPASF
YAHALNRGLEEEIAMDMTESDLDFFAGGGLNYFTKRKDKKDVLAILKGNQFTINTTGLTDFSSIASN
RKMGFLLADEAMPTMEKGRGNFLSAATDLAIQFLSKDNSAFFIMSEGSQIDWGGHANNASYLISEIN
DFDDAIGTALAFAKKDGNTLVIVTSDHETGGFTLAAKKNKREDGSEYSDYTEIGPTFSTGGHSATLIP
VFAYGPGSEEFIGIYENNEIFHKILKVTKWNQ
11111111111111111111111111110000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000
>B9WVA1_3op7_0_373
MKLPRFGVEEWLNVHENSAIYDIAGVSISSLTLEELFALSGTNPEDFYKKLQGTKLNYGWIEGSPAFK
KSVSQLYTGVKPEQILQTNGATGANLLVLYSLIEPGDHVISLYPTYQQLYDIPKSLGAEVDLWQIEEEN
GWLPDLEKLRQLIRPTTKMICINNANNPTGAVMDRTYLEELVEIASEVGAYILSDEVYRSFSELDVPSI
IEVYDKGIAVNSLSKTYSLPGIRIGWVAANHQVTDILRDYRDYTMICAGVFDDLVAQLALAHYQEILE
RNRHILEENLAILDQWIEEEPLVSYIRPAVVSTSFVKIAVDMPMEDFCLQLLQEHGVLLVPGNRFERD
GYVRLGFACEQETLIKGLEKLSQFLRRFDKEN
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000111
>P54422_2v36_28_401
KKPPKSYDEYKQVDVGKDGMVATAHPLASEIGADVLKKGGNAIDAAVAIQFALNVTEPMMSGIGGGG
FMMVYDGKTKDTTIIDSRERAPAGATPDMFLDENGKAIPFSERVTKGTAVGVPGTLKGLEEALDKW
GTRSMKQLITPSIKLAEKGFPIDSVLAEAISDYQEKLSRTAAKDVFLPNGEPLKEGDTLIQKDLAKTFK

LIRSKGTDAFYKGKFAKTLSDTVQDFGGSMTEKDLENYDITIDEPIWGDYQGYQIATTPPPSSGGIFLL
QMLKILDHFNLSQYDVRSWEKYQLLAETMHLSYADRASYAGDPEFVNVPLKGLLHPDYIKERQQLIN
LDQVNKKPKAGDPWKYQEGSANYKQVEQPKDKVEGQ
1111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000001111111
>Q8NSR4_2qr6_0_373
MRDHVEIGIGREARRTYSLDDISVVSSRRTRSSKDVDTTWHIDAYKFDLPFMNHPSDALASPEFVIE
MGKQGGLGVINAEGLWGRHADLDEAIAKVIAAYEEGDQAAATRTLQELHAAPLDTELLSERIAQVR
DSGEIVAVRVSPQNVREIAPIVIKAGADLLVIQGTLISAEHVNTGGEALNLKEFIGSLDVPVIAGGVNDY
TTALHMMRTGAVGIIVGGGENTNSLALGMEVSMATAIADVAAARRDYLDETGGRYVHIIADGSIENS
GDVVKAIACGADAVVLGSPLARAEEAAGKGYFWPAVAAHPRFPRGVVTESVDLDEAAPSLEQILHGP
STMPWGVENFEGGLKRALAKCGYTDLKSFQKVSLHVN
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001111000000000000000000000000000000000
0000000000000000
>O95714_3kci_3949_4320
GSGTIYGWGHNHRGQLGGIEGAKVKVPTPCEALATLRPVQLIGGEQTLFAVTADGKLYATGYGAGGRL
GIGGTESVSTPTLLESIQHVFIKKVAVNSGGKHCLALSSEGEVYSWGEAEDGKLGHGNRSPCDRPRVI
ESLRGIEVVDVAAGGAHSACVTAAGDLYTWGKGRYGRLGHSDSEDQLKPKLVEALQGHRVVDIACGS
GDAQTLCLTDDDTVWSWGDGDYGKLGRGGSDGCKVPMKIDSLTGLGVVKVECGSQFSVALTKSGAV
YTWGKGDYHRLGHGSDDHVRRPRQVQGLQGKKVIAIATGSLHCVCCTEDGEVYTWGDNDEGQLGD
GTTNAIQRPRLVAALQGKKVNRVACGSAHTLAWSTSKP
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
00000000000000111
>P05981_1z8g_45_416
SDQEPLYPVQVSSADARLMVFDKTEGTWRLLCSSRSNARVAGLSCEEMGFLRALTHSELDVRTAGAN
GTSGFFCVDEGRLPHTQRLLEVISVCDCPRGRFLAAICQDCGRRKLPVDRIVGGRDTSLGRWPWQVS
LRYDGAHLCGGSLLSGDWVLTAAHCFPERNRVLSRWRVFAGAVAQASPHGLQLGVQAVVYHGGYLP
FRDPNSEENSNDIALVHLSSPLPLTEYIQPVCLPAAGQALVDGKICTVTGWGNTQYYGQQAGVLQEAR
VPIISNDVCNGADFYGNQIKPKMFCAGYPEGGIDACQGDSGGPFVCEDSISRTPRWRLCGIVSWGTGC
ALAQKPGVYTKVSDFREWIFQAIKTHSEASGMVTQL
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000111000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>P42790_1ga6_215_586
AAGTAKGHNPTEFPTIYDASSAPTAANTTVGIITIGGVSQTLQDLQQFTSANGLASVNTQTIQTGSSNG
DYSDDQQGQGEWDLDSQSIVGSAGGAVQQLLFYMADQSASGNTGLTQAFNQAVSDNVAKVINVSLG
WCEADANADGTLQAEDRIFATAAAQGQTFSVSSGDEGVYECNNRGYPDGSTYSVSWPASSPNVIAVG
GTTLYTTSAGAYSNETVWNEGLDSNGKLWATGGGYSVYESKPSWQSVVSGTPGRRLLPDISFDAAQG
TGALIYNYGQLQQIGGTSLASPIFVGLWARLQSANSNSLGFPAASFYSAISSTPSLVHDVKSGNNGYGG
YGYNAGTGWDYPTGWGSLDIAKLSAYIRSNGFGH
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011
>P77774_3q7m_20_391
SLFNSEEDVVKMSPLPTVENQFTPTTAWSTSVGSGIGNFYSNLHPALADNVVYAADRAGLVKALNA
DDGKEIWSVSLAEKDGWFSKEPALLSGGVTVSGGHVYIGSEKAQVYALNTSDGTVAWQTKVAGEALS
RPVVSDGLVLIHTSNGQLQALNEADGAVKWTVNLDMPSLSLRGESAPTTAFGAAVVGGDNGRVSAV
LMEQGQMIWQQRISQATGSTEIDRLSDVDTTPVVVNGVVFALAYNGNLTALDLRSGQIMWKRELGS
VNDFIVDGNRIYLVDQNDRVMALTIDGGVTLWTQSDLLHRLLTSPVLYNGNLVVGDSEGYLHWINVE
DGRFVAQQKVDSSGFQTEPVAADGKLLIQAKDGTVYSITR
11111111100000000000000000000000000000000000000000000000000000000000000
00000000111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000011111000000000000000000000000000000000000000
01111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>Q84527_2nv9_0_371
MNSVVNNILKAHPHQTKSFYVSSPKIVEDLIDQWTILFPRVTPHYAVKCNNDEVLLKTMCDKNVNF
DCASSSEIKKVIQIGVSPSRIIFAHTMKTIDDLIFAKDQGVDIATFDSSFELDKIHTYHPNCKMILRIRC
DDPNATVQLGNKFGANEDEIRHLLEYAKQLDIEVIGISFHVGSGSRNPEAYYRAIKSSKEAFNEAISVG
HKPYILDIGGGLHADIDEGELSTYMSDYINDAIKDFFPEDTVTIVAEPGRFFAEHYSVLATQVIGKRVR
DGLYEYFFNESTYGGFSNVIFEKSVPTPQLLRDVPDDEEYVPSVLYGCTCDGVDVINHNVALPELHIG
DWVYFPSWGAYTNVLTTSFNGFGEYDVYYI
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000010000010000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>G0RV93_3pic_89_459

GAGGATCSALPGSITLRSNAKLNDLFTMFNGDKVTTKDKFSCRQAEMSELIQRYELGTLPGRPSTLTA
SFSGNTLTINCGEAGKSISFTVTITYPSSGTAPYPAIIGYGGGSLPAPAGVAMINFNNDNIAAQVNTGSR
GQGKFYDLYGSSHSAGAMTAWAWGVSRVIDALELVPGARIDTTKIGVTGCSRNGKGAMVAGAFEKRI
VLTLPQESGAGGSACWRISDYLKSQGANIQTASEIIGEDPWFSTTFNSYVNQVPVLPFDHHSLAALIA
PRGLFVIDNNIDWLGPQSCFGCMTAAHMAWQALGVSDHMGYSQIGAHAHCAFPSNQQSQLTAFVQ
KFLLGQSTNTAIFQSDFSANQSQWIDWTTPTLS
11111111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000
>P26039_3ivf_0_399
MVALSLKISIGNVVKTMQFEPSTMVYDACRMIRERIPEALAGPPNDFGLFLSDDDPKKGIWLEAGKA
LDYYMLRNGDTMEYRKKQRPLKIRMLDGTVKTIMVDDSKTVTDMLMTICARIGITNHDEYSLVREL
MEEKKDDELNWLDHGRTLREQGVEEHETLLLRRKFFYSDQNVDSRDPVQLNLLYVQARDDILNGS
HPVSFDKACEFAGFQCQIQFGPHNEQKHKAGFLDLKDFLPKEYVKQKGERKIFQAHKNCGQMSEIE
AKVRYVKLARSLKTYGVSFFLVKEKMKGKNKLVPRLLGITKECVMRVDEKTKEVIQEWSLTNIKRWA
ASPKSFTLDFGDYQDGYYSVQTTEGEQIAQLIAGYIDIIL
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000111111111
10000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000000000011
>P00791_3psg_15_384
LVKVPLVRKKSLRQNLIKNGKLKDFLKTHKHNPASKYFPEAAALIGDEPLENYLDTEYFGTIGIGTPA
QDFTVIFDTGSSNLWVPSVYCSSLACSDHNQFNPDDSSTFEATSQELSITYGTGSMTGILGYDTVQVG
GISDTNQIFGLSETEPGSFLYYAPFDGILGLAYPSISASGATPVFDNLWDQGLVSQDLFSVYLSSNDDSG
SVVLLGGIDSSYYTGSLNWVPVSVEGYWQITLDSITMDGETIACSGGCQAIVDTGTSLLTGPTSAIANI
QSDIGASENSDGEMVISCSSIDSLPDIVFTINGVQYPLSPSAYILQDDDSCTSGFEGMDVPTSSGELWIL
GDVFIRQYYTVFDRANNKVGLAPVA
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111100000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>P26882_1ihg_0_369
MSHPSPQAKPSNPSNPRVFFDVDIGGERVGRIVLELFADIVPKTAENFRALCTGEKGIGPTTGKPLHF
KGCPFHRIIKKFMIQGGDFSNQNGTGGESIYGEKFEDENFHYKHDKEGLLSMANAGSNTNGSQFFIT
TVPTPHLDGKHVVFGQVIKGMGVAKILENVEVKGEKPAKLCVIAECGELKEGDDWGIFPKDGSGDSH
PDFPEDADVDLKDVDKILLISEDLKNIGNTFFKSQNWEMAIKKYTKVLRYVEGSRAAAEDADGAKL
QPVALSCVLNIGACKLKMSDWQGAVDSCLEALEIDPSNTKALYRRAQGWQGLKEYDQALADLKKAQ

EIAPEDKAIQAELLKVKQKIKAQKDKEKAAYAKMFA
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000011111
>Q183D5_3qi7_25_394
GKKDKEKIIDDFKVAVVTQPLSENKVQYNMVEEMAKEYEEENKIDKDKDGQTKVKQTIKHVVLPEN
FTSNIDSAINKIVKLADDKEVQAIVVSTDQAGLLPALQKVKEKRPEIITISAPMGDDKNQLSQFVDVN
LGVSAEERGKVLAERSKEMGAKAFIHYASTDDLKDVNIAKRLEMIKETCKNIGLPFVQVNTPNINTE
EDKNKVKQFLNEDIEKQVKKYGKDINVFGVNEYMDEVILTKALELKYIVAEQSNPSPIQTYPSVMGL
KISEKDAQNYDKINDMISEKAKAFGMSNRLGGYPMPMDAFLPSLAIYLATEMVKQDLTQEDVCDPD
YLEAFTELRFGIGSEFTPLTEVLYNYQSVILSQLIY
11111110000000000000000000000000000000000011111000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000000
>A9CKT8_2pnw_1_369
NTPFSIDEVSFRDLPGWGQDDPRKLFPAMATILSHLRNAKPYRTGALGITAAELVSLLELAERGQVNS
PEQARQFFETNSVPFRISPAQGKSGFVTAFYEPELEVSATPDDVWRYPIYRRPPELVDIDNDNRPDGF
DPSYAFGKADEEGISYFPDRRAIDEGCLRGRGLEIAWARSKVDLFFVHVQGAARLVFPDGAIKRITYA
AKAGHVFSPIGRLLLDRGELDPKTISMQTIRQWLADHPDEVDGVLWHNRSYIFFREADVAGLDMGP
IAAAKVPLVAGRALAVDRLIHTFGLPFFIHAPTLTHLDDGKPFARLMLALDTGSAIVGPARGDIFTGSG
FEAGELAGTVRNEADFYILLPRIAAERYRR
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000001111000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000011111110000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000000000001
>A6KZ57_3s9j_26_393
AGKQNEVELVAEKQLAFPLDEQTYYLSKSMFQFEENGKEYLHFENTQKSLYDIVIFDIENQQIAKRIP
LHKTGPNGLPAVFGSRPSPDSQYILVAQNNISRLSSINSQGEIIRNYNFQTPEGRFTPLSFGSYYNAPAF
IKDSCIFLRQEILKPDMKKEDWPRTHMFASQDLRTGEVKWIPIFYPPIFKEEYDNIAGGYGFSYDYNY
KESRLVCGFFGYDSLMVTDDLKHIRWYNAKSRYLKSMKPKLGNSMEGINAIIKLNENPRYWHIMYD
KYRNVYYRFAEMPYKLAPNESPYETPKGKEFSVIVLNADFEIIGETKFPGKKYFYKMSFVGREGLYIS
ENNLENPQFDENKLVFTCFKIKNASPNK
11000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

000000000000000000000000000000000000000000000000000000000000000000000
0000000001111
>P78406_3mmy_0_367
MSLFGTTSGFGTSGTSMFGSATTDNHNPMKDIEVTSSPDDSIGCLSFSPPTLPGNFLIAGSWANDVR
CWEVQDSGQTIPKAQQMHTGPVLDVCWSDDGSKVFTASCDKTAKMWDLSSNQAIQIAQHDAPVKT
IHWIKAPNYSCVMTGSWDKTLKFWDTRSSNPMMVLQLPERCYCADVIYPMAVVATAERGLIVYQLE
NQPSEFRRIESPLKHQHRCVAIFKDKQNKPTGFALGSIEGRVAIHYINPPNPAKDNFTFKCHRSNGTN
TSAPQDIYAVNGIAFHPVHGTLATVGSDGRFSFWDKDARTKLKTSEQLDQPISACCFNHNGNIFAYAS
SYDWSKGHEFYNPQKKNYIFLRNAAEELKPRNKK
111000000000000000111110000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
0000000000111
>Q216E8_3qfw_1_367
TEPRIVATYHIASDAERIEQRALALAIEQSVECPLEAIGDPAIVANIVGRVEDVAELQPGRYAVRIGLAA
ATAPAEPGQLLNMLFGNSSIQPDIALADVELPAHYLTAFGGPRVGLAGIRTLTGAQSRALTASALKPQG
LSPAALASIAHQLALGGVDLIKDDHGLADQAFSPFAERAAAVGKAVREANAARGGRTLYAPNISGTLD
DMRRQLGVIRDEGIGAVLVAPMIVGVSNFHAIVKEAAGLVVVAHPAMAGAAKIAAPLLLGRLFRLFGA
DATVFPNYGGRFAYSTASCLALAQAARDPFGKLNACIPTPAGGIMLQRVNELLRFYGQDVMLLIGGSL
LASRERLTEQASRFVNKVADYGQR
000000000000000000000000000000000000000111111100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000011111111100000000
000000000000
>Q51658_4fa5_20_386
EQARPADDALAALGAQLFVDPALSRNATQSCATCHDPARAFTDPREGKAGLAVSVGDDGQSHGDRN
TPTLGYAALVPAFHRDANGKYKGGQFWDGRADDLKQQAGQPMLNPVEMAMPDRAAVAARLRDDP
AYRTGFEALFGKGVLDDPERAFDAAAEALAAYQATGEFSPFDSKYDRVMRGEEKFTPLEEFGYTVFI
TWNCRLCHMQRKQGVAERETFTNFEYHNIGLPVNETAREASGLGADHVDHGLLARPGIEDPAQSG
RFKVPSLRNVAVTGPYMHNGVFTDLRTAILFYNKYTSRRPEAKINPETGAPWGEPEVARNLSLAELQ
SGLMLDDGRVDALVAFLETLTDRRYEPLLEESRAAQKD
111110000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000011111
>Q6ARP5_2pge_1_367
SGMELSYRRSDLIFKRPAGTSRGVLTSKPTWFVRLDIDGHGGQGEVSLIPGLSLDPEEQIGRELDLLA
RRLRAEEPIRLRQFLAERGGADFSDYRSVLTDIAGILDSWQVSTDGRFPALRFALEMALLDLLSGGRQ

EWFASDFTRGEKRIPVNGLIWMGEAAFMQEQIEAKLAEGYGCLKLKIGAIDFDKECALLAGIRESFSP
QQLEIRVDANGAFSPANAPQRLKRLSQFHLHSIEQPIRQHQWSEMAALCANSPLAIALDEELIGLGA
EQRSAMLDAIRPQYIILKPSLLGGFHYAGQWIELARERGIGFWITSALESNLGLAAIAQWTALYQPTM
PQGLGTGQLYTNNLPSNLAVDGGLLGVS
000000000000000011111110000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011100000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000001
>P0ADR6_4auk_0_365
MNKVVLLCRPGFEKECAAEITDKAGQREIFGFARVKENAGYVIYECYQPDDGDKLIRELPFSSLIFAR
QWFVVGELLQHLPPEDRITPIVGMLQGVVEKGGELRVEVADTNESKELLKFCRKFTVPLRAALRDAG
VLANYETPKRPVVHVFFIAPGCCYTGYSYSNNNSPFYMGIPRLKFPADAPSRSTLKLEEAFHVFIPAD
EWDERLANGMWAVDLGACPGGWTYQLVKRNMWVYSVDNGPMAQSLMDTGQVTWLREDGFKFR
PTRSNISWMVCDMVEKPAKVAALMAQWLVNGWCRETIFNLKLPMKKRYEEVSHNLAYIQAQLDEH
GINAQIQARQLYHDREEVTVHVRRIWAAVGGRRDER
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00111111111
>Q4UVI8_2f8h_0_365
MTDLLASTLEHLETLVSFDTRNPPRAIAAEGGIFDYLRAQLPGFQVEVIDHGDGAVSLYAVRGTPKYL
FNVHLDTVPDSPHWSADPHVMRRTEDRVIGLGVCDIKGAAAALVAAANAGDGDAAFLFSSDEEAN
DPRCIAAFLARGLPYDAVLVAEPTMSEAVLAHRGISSVLMRFAGRAGHASGKQDPAASALHQAMRW
GGKALDHVESLAHARFGGLTGLRFNIGRVDGGIKANMIAPAAELRFGFRPLPSMDVDGLLATFAGFA
DPAAAHFEETFRGPSLPSGDIARAEERRLAARDVADALDLPIGNAVDFWTEASLFSAGGYTALVYGP
GDIAQAHTADEFVTLAQLQRYVESVNRIINGSH
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111100000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
00000000001
>P07012_1gqe_0_364
MFEINPVNNRIQDLTERSDVLRGYLDYDAKKERLEEVNAELEQPDVWNEPERAQALGKERSSLEAV
VDTLDQMKQGLEDVSGLLELAVEADDEETFNEAVAELDALEEKLAQLEFRRMFSGEYDSADCYLDI
QAGSGGTEAQDWASMLERMYLRWAESRGFKTEIIEESEGEVAGIKSVTIKISGDYAYGWLRTETGVH
RLVRKSPFDSGGRRHTSFSSAFVYPEVDDDIDIEINPADLRIDVYRTSGAGGQHVNRTESAVRITHIPT
GIVTQCQNDRSQHKNKDQAMKQMKAKLYELEMQKKNAEKQAMEDNKSDIGWGSQIRSYVLDDSRI
KDLRTGVETRNTQAVLDGSLDQFIEASLKAGL
11100000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000
>P40486_3zuz_142_506
GQMGEGFNWEIEQKMDSSTNNGILKTKYGFDNLYDTVISVSTSNGNDINELDDPEHTDANDRVIER
LRKENLKFDPEYYVSEYMTHKYGNEEDLEINGIKELLKFTPSIVKQYLQWYKDSTNPNLVMPIEFTD
EEQKQMQDNLPKKSYLVEDIKPLYVTILSVLFSYVFEQIENEGTHTTESAWTMGKLCPQISFLDQQLK
QVNELQDGMKEISKVNKDSSLIKIAIITGIRRALSYPLHRNYDLAMKAWTFVYYILRGGKRLVIRALL
DIHETFRFHDVYYVYDKVLLDDLTAWFISQGSENVIRSLALEMRKEQESLSKQDIEFECIASFNEQTG
EPEWETLNIREMEILAESEYREQQQNPQ
11111111111111111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000011111111111
11111100000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111110000000000000000
0000000011
>P54278_1h7s_0_364
MERAESSSTEPAKAIKPIDRKSVHQICSGQVVLSLSTAVKELVENSLDAGATNIDLKLKDYGVDLIEVS
DNGCGVEEENFEGLTLKHHTSKIQEFADLTQVETFGFRGEALSSLCALSDVTISTCHASAKVGTRLMF
DHNGKIIQKTPYPRPRGTTVSVQQLFSTLPVRHKEFQRNIKKEYAKMVQVLHAYCIISAGIRVSCTNQ
LGQGKRQPVVCTGGSPSIKENIGSVFGQKQLQSLIPFVQLPPSDSVCEEYGLSCSDALHNLFYISGFISQ
CTHGVGRSSTDRQFFFINRRPCDPAKVCRLVNEVYHMYNRHQYPFVVLNISVDSECVDINVTPDKRQ
ILLQEEKLLLAVLKTSLIGMFDS
11111111111111111111111111110000000000000000000000000000000000000000000000000000
00000000000000111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000011111100000000000000
0000000000
>Q0B6Q2_4gxw_1_365
KGTPGNVPAARTGIEITAAHRAFFHALPKVELHCHLLGAVRHDTFVALAQRSGAPIERAEIDAFYARG
EKPVGVLHVLRALDRYLLTRPDDLRRIAYEYLEDAAAHNVRHAEFFWNPTGTVRVSGIPYADAQAAI
VTGMRDAARDFGIGARLIPSIDREQDPDEAVAIVDWMKANRADEVAGIGIDYRENDRPPELFWKAY
RDARAAGFRTTAHAGEFGMPWRNVETAVDLLHVDRVDHGYTIVDNPELCARYAERGIVFTVVPTNS
YYLRTLPPDQWAERHPMRKMPGLGLKIHPNTDDPTLHKVNPSEAWELMFSHFGFTIADLKQFML
NGIDGAWVDDDTKAAWRAAWAPEFDMLADTLAAD
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000

>Q15782_4ay1_25_389
AYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVMLYQTINSLKTKNPK
LKILLSIGGYLFGSKGFHPMVDSSTSRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHFTVLIHELA
EAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPLS
KGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITES
SGFLAYYEICQFLKGAKITRLQDQQVPYAVKGNQWVGYDDVKSMETKVQFLKNLNLGGAMIWSIDM
DDFTGKSCNQGPYPLVQAVKRSLGSL
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000000001
>P97084_1lc7_0_363
MALFNSAHGGNIREAATVLGISPDQLLDFSANINPLGMPVSVKRALIDNLDCIERYPDADYFHLHQA
LARHHQVPASWILAGNGETESIFTVASGLKPRRAMIVTPGFAEYGRALAQSGCEIRRWSLREADGWQ
LTDAILEALTPDLDCLFLCTPNNPTGLLPERPLLQAIADRCKSLNINLILDEAFIDFIPHETGFIPALKD
NPHIWVLRSLTKFYAIPGLRLGYLVNSDDAAMARMRRQQMPWSVNALAALAGEVALQDSAWQQAT
WHWLREEGARFYQALCQLPLLTVYPGRANYLLLRCEREDIDLQRRLLTQRILIRSCANYPGLDSRYY
RVAIRSAAQNERLLAALRNVLTGIAPAD
11100000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000111
>Q3M4J2_3fse_0_363
MTNHNNSGKKKVAILIEQAVEDTEFIIPCNGLKQAGFEVVVLGSRMNEKYKGKRGRLSTQADGTTTE
AIASEFDAVVIPGGMAPDKMRRNPNTVRFVQEAMEQGKLVAAVCHGPQVLIEGDLLRGKQATGFIAI
SKDMMNAGADYLDEALVVDGNLITSREPGDLAIFTTAILSRLGYGGKDAALPDEKDRNAEWWKLA
DAWGGSTKGDIVRGLNTALGGERYSLEALEKYTEKESDVEAKALFQEMITNKQRHIEYLETYLTRLG
EKPSLSANIANQYAKVKTALTGSDDIYQIRSALGDIQTGIGDIGNLCAMYTDPIATAIFKEIYKDLVKYE
QRLVSLYRTRTNATVQPPKPTTGAAVSM
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
000000111
>Q313A9_2rb7_0_362
MSSMQHIVELTSDLIRFPSMHSRPEQISRCAGFIMDWCAQNGIHAERMDHDGIPSVMVLPEKGRAG
LLLMAHIDVVDAEDDLFVPRVENDRLYGRGANDDKYAVALGLVMFRDRLNALKAAGRSQKDMALG
LLITGDEEIGGMNGAAKALPLIRADYVVALDGGNPQQVITKEKGIIDIKLTCTGKAAHGARPWMGVN
AVDLLMEDYTRLKTLFAEENEDHWHRTVNLGRIRAGESTNKVPDVAEGWFNIRVTEHDDPGALID

KIRKTVSGTVSIVRTVPVFLAADSPYTERLLALSGATAGKAHGASDARYLGENGLTGVVWGAEGFNT
LHSRDECLHIPSLQSIYDPLMQLAREMEEHAAV
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00001111
>Q46E79_4ffr_0_362
MKTICLVGGKLQGFEAAYLSKKAGMKVVLVDKNPQALIRNYADEFYCFDVIKEPEKLLELSKRVDAVL
PVNENLACIEFLNSIKEKFSCPVLFDFEAYRISRDKKKSKDYFKSIGVPTPQDRPSKPPYFVKPPCESSS
VGARIIYDDKDLEGLEPDTLVEEYVEGEVVSLEVVGDGSHFAVVKETLVHIDETYDCHMVTPLPANPL
FRQISHDLAANLPLKGIMDVEAIFGPKGLRVIEIDARFPSQTPTVVYYSSGINLIELLFRAFTDGVEEIR
AIPENKYCIYEHLMFGENGVLIPVGEQVLSMGSDYGKFYEEPGIEIFLCKGEYPVFTMVFWGKDREET
GAKRCKGLSVLKERFGAVL
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000001111000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000111100000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
11111111
>Q9TVW2_1lii_0_362
MAVDSSNSATGPMRVFAIGNPILDLVAEVPSSFLDEFFLKRGDATLATPEQMRIYSTLDQFNPTSLPG
GSALNSVRVVQKLLRKPGSAGYMGAIGDDPRGQVLKELCDKEGLATRFMVAPGQSTGVCAVLINEKE
RTLCTHLGACGSFRLPEDWTTFASGALIFYATAYTLTATPKNALEVAGYAHGIPNAIFTLNLSAPFCVE
LYKDAMQSLLLHTNILFGNEEEFAHLAKVHNLVAAEKTALSTANKEHAVEVCTGALRLLTAGQNTGA
TKLVVMTRGHNPVIAAEQTADGTVVVHEVGVPVVAAEKIVDTNGAGDAFVGGFLYALSQGKTVKQCI
MCGNACAQDVIQHVGFSLSFTSLPC
11111111110000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000011000000000000011111111111111100000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00011111
>Q9Y7D0_3gqv_0_362
MGDQPFIPPPQQTALTVNDHDEVTVWNAAPCPMLPRDQVYVRVEAVAINPSDTKMRGQFATPWAF
LGTDYAGTVVAVGSDVTHIQVGDRVYGAQNEMCPRTPDQGAFSQYTVTRGRVWAKIPKGLSFEQAA
ALPAGISTAGLAMKLLGLPLPSPSADQPPTHSKPVYVLVYGGSTATATVTMQMLRLSGYIPIATCSPHN
FDLAKSRGAEEVFDYRAPNLAQTIRTYTKNNLRYALDCITNVESTTFCFAAIGRAGGHYVSLNPFPEH
AATRKMVTTDWTLGPTIFGEGSTWPAPYGRPGSEEERQFGEDLWRIAGQLVEDGRLVHHPLRVVQG
GFDHIKQGMELVRKGELSGEKLVVRLEGP
11100000000000000000000000000000000000000000000000000011111000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000011100000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000
>A7LZL0_3n6z_19_380
ISCSDPNPLDSYTRVPFEKTETDDGNGDGDGDGAGGLFEKGNGTDSKPYMIMNATQIRNMRSVLKS
GMKVYFQLGADIDMAGIDDWQSLNGSGDFPYEIDFDGDSHVIKNFKCSAGDYPSFFGVLCGDCRNV
GFVNASVSSARQGIGIITGYLGLKDKGNGNKTGRIVNCYTTGEVIGSGAAGGIAGVLANSYDGQESYIK
NCYSNATVSDRAASGGKAGGIAGRKVGVGGFIENCYAYGAVSATKGGVGGILGQIDKSCDIAIKNSAAW
SNLTGVDASSTVGRIVGVSASLGSYENCYACESIVLKVNEKTITASDESSATGTTFHGVAKSAEELGNIIV
AWNPNLWKKGTNGYPIFQWSE
11111111000000001111111111111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000000
>P52788_3c6k_4_365
RHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVL
LDLQSYDGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDID
EVVYDEDSPYQNIKILHSKQFGNILILSGDVNLAESDLAYTRAIMGSGKEDYTGKDVLILGGGDGGILC
EIVKLKPKMVTMVEIDQMVIDGCKKYMRKTCGDVLDNLKGDCYQVLIEDCIPVLKRYAKEGREFDY
VINDLTAVPISTSPEEDSTWEFLRLILDLSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEF
SKEIVCVPSYLELWVFYTVWKKAKP
00000000011110000000000000000000000000000000000000000000000000000000000
00111000000000000000000001111000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000011110000000000000000000000000000000000000000000000011
10000000000000000000000000000000000000000000000000000000000000000000000
0000000
>Q6N0W2_3rpw_0_361
MLGLKRFRLPALASAAFIALGAGTAAAQSNVVIMQDPGGGYGDALRKVMYDPFEKETGIKVVTVQE
ARSGPRIKAQAEAGKAQWDLTFIFDQETKLLGDCCLADIDYSKLSESAHKTLAAMPDNLKRKKGVAL
QVIGVGLVYNKDKFKGDKAPQTWADFWDVKKFPGRRCMPAWPRFTFEAALMADGVTKDKLYPID
MDRALKKLKEIKPHVVKWWTTAAQPPQLILDGEADMCLAYTGSMSKLALEGAPIDLTFNQGFVYY
DFFSIPKGAPNYDNALKLLSWRLDPKRAAQLTSTFPVALPSKVVFDAATDKNIARYWANNPENVAK
AIEWSPDFWGAPSPAGNSTNEEYGQEKLNAMLAQ
11111111111111111111111111100000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
0000011
>Q01064_1taz_145_505
VGPTYSTAVLNCLKNLDLWCFDVFSLNQAADDHALRTIVFELLTRHNLISRFKIPTVFLMSFLDALET

GYGKYKNPYHNQIHAADVTQTVHCFLLRTGMVHCLSEIELLAIIFAAAIHDYEHTGTTNSFHIQTKSE
CAIVYNDRSVLENHHISSVFRLMQDDEMNIFINLTKDEFVELRALVIEMVLATDMSCHFQQVKTMKT
ALQQLERIDKPKALSLLLHAADISHPTKQWLVHSRWTKALMEEFFRQGDKEAELGLPFSPLCDRTS
TLVAQSQIGFIDFIVEPTFSVLTDVAEKSVQPLADEDSKSKNQPSFQWRQPSLDVEVGDPNPDVVSFR
STWVKRIQENKQKWKERAASGITN
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000110000
000000000000000000000000000000000000000000000000111111000000000000000000
000000000000000011111111111111111111111111000000000000000000000000000000
001111
>Q4QHJ8_3pg1_0_360
MQAKGEAAMRDLIAELHAMQSPYTVQRFISSGSYGAVCAGVDSEGIPVAIKRVFNTVSDGRTVNILSD
SFLCKRVLREIRLLNHFHHPNILGLRDIFVHFEEPAMHKLYLVTELMRTDLAQVIHDQRIVISPQHIQY
FMYHILLGLHVLHEAGVVHRDLHPGNILLADNNDITICDFNLAREDTADANKTHYVTHRWYRAPEL
VMQFKGFTKLVDMWSAGCVMAEMFNRKALFRGSTFYNQLNKIVEVVGTPKIEDVVMFSSPSARDY
LRNSLSNVPARAWTAVVPTADPVALDLIAKMLEFNPQRRISTEQALRHPYFESLFDPLDLTEGLSERF
HFDESVTDVYDMHKIFTAEVERFND
111100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000011111111111111100000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000001
>Q8Y6T2_3nvt_0_360
MVNTNLEELRTQVDQLNIDLLELISKRANLVQEIGKIKGTQGSLRFDPLREREMLNTILAANEGPFED
STVQKLFKEIFKAGLELQEEDHSKALLVSRKNKKEDTIVTVKGLPIGNGEPVFVFGPCSVESYEQVAAV
AESIKAKGLKLIRGGAFKPRTSPYDFQGLGLEGLKILKRVSDEYGLGVISEIVTPADIEVALDYVDVIQIG
ARNMQNFELLKAAGRVDKPILLKRGLSATIEEFIGAAEYIMSQGNGKIILCERGIRTYEKATRNTLDIS
AVPILKKETHLPVMVDVTHSTGRKDLLLPCAKAALAIEADGVMAEVHPDPAVALSDSAQQMDIPEF
EEFWNAILASNLVPHKIK
111110000000000000000000000000000000011111000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
001111
>Q9K499_3lg5_0_360
MHAFPHGTTATPTAIAVPPSLRLPVIEAAFPRQLHPYWPKLQETTRTWLLEKRLMPADKVEEYADG
LCYTDLMAGYYLGAPDEVLQAIADYSAWFFVWDDRHDRDIVHGRAGAWRRLRGLLHTALDSPGDH
LHHEDTLVAGFADSVRRLYAFLPATWNARFARHFHTVIEAYDREFHNRTRGIVPGVEEYLELRRLTFA
HWIWTDLLEPSSGCELPDAVRKHPAYRRAALLSQEFAAWYNDLCSLPKEIAGDEVHNLGISLITHHS
LTLEEAIGEVRRRVEECITEFLAVERDALRFADELADGTVRGKELSGAVRANVGNMRNWFSSVYWF
HHESGRYMVDSWDDRSTPPYVNNEAAGEK

11111111111111100000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
111111
>A7M120_3oyv_24_383
SDDDNPTVDPANIDYTPENASSWHNYMRNVAALLKTDATNLYNAWNSSYKGGESYASLFKAHSGSP
YASALSCVEEIVDKCAEIANEVGTAKIGDPYNLYKAGNTEEALYAVESWYSWHSRDDYTNNIYSIRNA
YYGSLDGNINANSLSTVIAGANSSLDTKIKNAIQKAAKAIQDIPQPFRNHIPSNETVAAMDACAELESI
LKNDLKSYIANNSNNINTDAVLNPVVTQYVDAVVVPTYKSLKEKNDALYNAVIVLADNPSNSAFETA
CDAWITAREPWEKSEAFLFGPVDEMGLDPNMDSWPLDQNAIVQILNSQSWSDLEWSEGDDEAAV
ESAQNVRGFHTLEFLLYKNGEPRKVQ
11111000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000
>O06543_2gce_0_359
MAGPLSGLRVVELAGIGPGPHAAMILGDLGADVVRIDRPSSVDGISRDAMLRNRRIVTADLKSDQGL
ELALKLIAKADVLIEGYRPGVTERLGLGPEECAKVNDRLIYARMTGWGQTGPRSQQAGHDINYISLN
GILHAIGRGDERPVPPLNLVGDFGGGSMFLLVGILAALWERQSSGKGQVVDAAMVDGSSVLIQMMW
AMRATGMWTDTRGANMLDGGAPYYDTYECADGRYVAVGAIEPQFYAAMLAGLGLDAAELPPQND
RARWPELRALLTEAFASHDRDHWGAVFANSDACVTPVLAFGEVHNEPHIIERNTFYEANGGWQPM
PAPRFSRTASSQPRPPAATIDIEAVLTDWDG
10000000000000000000000000000000000011111000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000
>Q9H3S7_3rau_1_360
EAVPRMPMIWLDLKEAGDFHFQPAVKKFVLKNYGENPEAYNEELKKLELLRQNAVRVPRDFEGCSV
LRKYLGQLHYLQSRVPMGSGQEAAVPVTWTEIFSGKSVAHEDIKYEQACILYNLGALHSMLGAMDKR
VSEEGMKVSCTHFQCAAGAFAYLREHFPQAYSVDMSRQILTLNVNLMLGQAQECLLEKSMLDNRKS
FLVARISAQVVDYYKEACRALENPDTASLLGRIQKDWKKLVQMKIYYFAAVAHLHMGKQAEEQQKF
GERVAYFQSALDKLNEAIKLAKGQPDTVQDALRFTMDVIGGKYNSAKKDNDFIYHEAVPALDTLQPV
KGAPLVKPLPVNPTDPAVTGPDIFAKLV
11000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000

00000
>Q9ZTU2_3p9c_0_359
MGSTAADMAASADEDACMFALQLASSSVLPMTLKNAIELGLLEILVAAGGKSLTPTEVAAKLPSAAN
PEAPDMVDRILRLLASYNVVTCLVEEGKDGRLSRSYGAAPVCKFLTPNEDGVSMAALALMNQDKVL
MESWYYLKDAVLDGGIPFNKAYGMSAFEYHGTDPRFNRVFNEGMKNHSIIITKKLLELYHGFEGLGT
LVDVGGGVGATVAAIAAHYPTIKGVNFDLPHVISEAPQFPGVTHVGGDMFKEVPSGDTILMKWILHD
WSDQHCATLLKNCYDALPAHGKVVLVQCILPVNPEANPSSQGVFHVDMIMLAHNPGGRERYEREFQ
ALARGAGFTGVKSTYIYANAWAIEFTK
11111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000
>O34453_1m7v_4_362
EILWNEAKAFIAACYQELGKEEEVKDRLADIKSEIDLTGSYVHTKEELEHGAKMAWRNSNRCIGRLF
WNSLNVIDRRDVRTKEEVRDALFHHIETATNNGKIRPTITIFPPEEKGEKQVEIWNHQLIRYAGYESD
GERIGDPASCSLTAACEELGWRGERTDFDLLPLIFRMKGDEQPVWYELPRSLVIEVPITHPDIEAFSDL
ELKWYGVPIISDMKLEVGGIHYNAAPFNGWYMGTEIGARNLADEKRYDKLKKVASVIGIAADYNTDL
WKDQALVELNKAVLHSYKKQGVSIVDHHTAASQFKRFEEQEEEAGRKLTGDWTWLIPPISPAATHIF
HRSYDNSIVKPNYFYQDKPYE
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000110000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
0000
>Q08493_2qym_305_662
TVPRFGVQTDQEEQLAKELEDTNKWGLDVFKVAELSGNRPLTAIIFSIFQERDLLKTFQIPADTLATY
LLMLEGHYHANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHPGVSNQFL
INTNSELALMYNDASVLENHHLAVGFKLLQAENCDIFQNLSAKQRLSLRRMVIDMVLATDMSKHM
NLLADLKTMVETKKVTSLGVLLLDNYSDRIQVLQNLVHCADLSNPTKPLPLYRQWTDRIMAEFFQQ
GDRERESGLDISPMCDKHTASVEKSQVGFIDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSK
IPRSPSDLTNPERDGPDRFQFELTLE
10000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111111111
11110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000011111111111111111
11111110000000000000000000000000000000000000011111111111111111111111
111
>Q18014_3zy4_25_382
TDPNGYIVFCPCMGRFGNQVDQFLGVLAFAKALDRTLVLPNFIEFKHPETKMIPFEFLFQVGTVAKY
TRVVTMQEFTKKIMPTVWPPEKRKAFCWTPRQAIYDKSAEPGCHSKEGNPFGPYWDQIDVSFVGD
EYFGDIPGGFDLNQMGSRKKWLEKFPSEEYPVLAFSSAPAPFPSKGKVWSIQKYLRWSSRITEQAKK

FISANLAKPFVAVHLRNDADWVRVCEHIDTTTNRPLFASEQCLGEGHHLGTLTKEICSPSKQQILEQI
VEKVGSIGAKSVFVASDKDHMIDEINEALKPYEIEAHRQEPDDMYTSLAIMGRADLFVGNCVSTFSHI
VKRERDHAGQSPRPSAFFGIRAV
000000000000000000000000000000000000000000000111000000000000000000000
000000000000000000000000000000111100000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000111000000000
111
>P19424_1g0c_227_583
AVKSPSEAGALQLVELNGQLTLAGEDGTPVQLRGMSTHGLQWFGEIVNENAFVALSNDWGSNMIRL
AMYIGENGYATNPEVKDLVYEGIELAFEHDMYVIVDWHVHAPGDPRADVYSGAYDFFEEIADHYKD
HPKNHYIIWELANEPSPNNNGGPGLTNDEKGWEAVKEYAEPIVEMLREKGDNMILVGNPNWSQRP
DLSADNPIDAENIMYSVHFYTGSHGASHIGYPEGTPSSERSNVMANVRYALDNGVAVFATEWGTSQA
NGDGGPYFDEADVWLNFLNKHNISWANWSLTNKNEISGAFTPFELGRTDATDLDPGANQVWAPE
ELSLSGEYVRARIKGIEYTPIDRTKFTKL
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000011
11
>P32179_1ka1_0_356
MALERELLVATQAVRKASLLTKRIQSEVISHKDSTTITKNDNSPVTTGDYAAQTIIINAIKSNFPDDKV
VGEESSSGLSDAFVSGILNEIKANDEVYNKNYKKDDFLFTNDQFPLKSLEDVRQIIDFGNYEGGRKGR
FWCLDPIDGTKGFLRGEQFAVCLALIVDGVVQLGCIGCPNLVLSSYGAQDLKGHESFGYIFRAVRGLGA
FYSPSSDAESWTKIHVRHLKDTKDMITLEGVEKGHSSHDEQTAIKNKLNISKSLHLDSQAKYCLLAL
GLADVYLRLPIKLSYQEKIWDHAAGNVIVHEAGGIHTDAMEDVPLDFGNGRTLATKGVIASSGPREL
HDLVVSTSCDVIQSRNA
100000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000
11
>Q57159_4aqn_0_356
MSDTMVVNGSGGVPAFLFSGSTLSSYRPNFEANSITIALPHYVDLPGRSNFKLMYIMGFPIDTEMEK
DSEYSNKIRQESKISKTEGTVSYEQKITVETGQEKDGVKVYRVMVLEGTIAESIEHLDKKENEDILNN
NRNRIVLADNTVINFDNISQLKEFLRRSVNIVDHDIFSSNGFEGFNPTSHFPSNPSSDYFNSTGVTFGS
GVDLGQRSKQDLLNDGVPQYIADRLDGYYMLRGKEAYDKVRTAPLTLSDNEAHLLSNIYIDKFSHKIE
GLFNDANIGLRFSDLPLRTRTALVSIGYQKGFKLSRTAPTVWNKVIAKDWNGLVNAFNNIVDGMSDR
RKREGALVQKDIDSGLLK
111111111111000000000000000001111100000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00
>Q57329_1rkx_0_356
MINNSFWQGKRVFVTGHTGFKGGWLSLWLQTMGATVKGYSLTAPTVPSLFETARVADGMQSEIGDI
RDQNKLLESIREFQPEIVFHMAAQPLVRLSYSEPVETYSTNVMGTVYLLEAIRHVGGVKAVVNITSDK
CYDNKEWIWGYRENEAMGGYDPYSNSKGCAELVTSSYRNSFFNPANYGQHGTAVATVRAGNVIGGG
DWALDRIVPDILRAFEQSQPVIIRNPHAIRPWQHVLEPLSGYLLLAQKLYTDGAEYAEGWNFGPNDA
DATPVKNIVEQMVKYWGEGASWQLDGNAHPHEAHYLKLDCSKAKMQLGWHPRWNLNTTLEYIV
GWHKNWLSGTDMHEYSITEINNYMNTK
10000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000001111111000000000000000000000000000000000000000000000000000000000000000000
00
>P07173_3t6d_0_355
MKQLIVNSVATVALASLVAGCFEPPPATTTQTGFRGLSMGEVLHPATVKAKKERDAQYPPALAAVKA
EGPPVSQVYKNVKVLGNLTEAEFLRTMTAITEWVSPQEGCTYCHDENNLASEAKYPYVVARRMLEM
TRAINTNWTQHVAQTGVTCYTCHRGTPLPPYVRYLEPTLPLNNRETPTHVERVETRSGYVVRLAKY
TAYSALNYDPFTMFLANDKRQVRVVPQTALPLVGVSRGKERRPLSDAYATFALMMSISDSLGTNCTF
CHNAQTFESWGKKSTPQRAIAWWGIRMVRDLNMNYLAPLNASLPASRLGRQGEAPQADCRTCHQ
GVTKPLFGASRLKDYPELGPIKAAAK
11111111111111111111000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000001
1
>P36203_3hr8_0_355
MPEEKQKKSVLEKALKRIEENFGKGSIMILGDETQVQPVEVIPTGSLAIDIATGVGGYPRGRIVEIFGQ
ESSGKTTLALHAIAEAQKMGGVAAFIDAEHALDPVYAKNLGVDLKSLLISQPDHGEQALEIVDELVRS
GVVDLIVVDSVAALVPRAEIEGAMGDMQVGLQARLMSQALRKIAGSVNKSKAVVIFTNQIRMKIGVM
FGSPETTTGGLALKFYATMRMEVRRGEPIKEGKDVIGNVISVKIVKNKVAPPFKTAQTYIIYGKGIDRE
YELFNIAVNEGIVDRKGSWYYYTTLKGEEVSLGQGSSNAVQFLKDNPEIAGEIERRIREKYGLLSVEKE
EQRKEKKSSGEEAS
11100000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000001111111111
1
>A6LGN3_3taw_31_385

AVSETISETAWCLDGFERPTGVNPVIKPLPTKFYCPMREDSVAWEESDTFNPAATIYDGKIVVMYRA
EDNSAQGIGSRTSRLGYATSTDGIHFERDTKPAFYPAKDNQAENECPGGTEDPRIAMTEDGTYVLLYT
QWNRKVPRLAVATSKDLKHWTKFGPAFEKAYNGKFKDEATKSASLVTTLKGDKQVIAKVNGKYFM
YWGEKNVYAATSDNLIDWDPLLDENGELLKLFSPRSGYFDSQLTECGPPAILTKDGIVLLYNGKNEPG
EKGDTAYPANSYCAGQALFDVNNPTKLIGRLDKPFLQPTDDFEKSGQYPAGTVFVEGLVYYRNKWYL
YYGCADSFVAVAVSDKQLNF
11111100000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>O25743_2qm6_24_378
SAASYPPIKNTKVGLALSSHPLASEIGQKVLEEGGNAIDAAVAIGFALAVVHPAAGNIGGGGFAVIHLA
NGENVALDFREKAPLKATKNMFLDKQGNVVPKLSEDGYLAAGVPGTVAGMEAMLKKYGTKKLSQL
IDPAIKLAENGYAISQRQAETLKEARERFLKYSSSKKYFFKKGHLDYQEGDLFVQKDLAKTLNQIKTL
GAKGFYQGQVAELIEKDMKKNGGIITKEDLASYNVKWRKPVVGSYRGYKIISMSPPSSGGTHLIQILN
VMENADLSALGYGASKNIHIAAEAMRQAYADRSVYMGDADFVSVPVDKLINKAYAKKIFDTIQPDTV
TPSSQIKPGMGQLHEGSN
11111110000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>A1RHE8_3rpd_0_353
MKTRLNKTSLNQALLPTSTAGSLPKPLWLAEPETLWSPWKLQGEELITGKHDALRLSLQDQQLAGI
DIVSDGEQTRQHFVTTFIEHLNGVDFSKRKIVKIRDRYDASVPTVVGPVSRQKSVFVEDAKFLRKQTT
QPIKWALPGPMTMIDTLYDDHYKSREKLAWEFAKILNEEAKELEAAGVDIIQFDEPAFNVFFDEVND
WGIACLERAIEGLKCETAVHICYGYGIKANTDWKKTLGSEWRQYEEVFPKLQKSNIDIISLECHNSHV
PMELLELIRGKKVMVGAIDVATDTIETAEEVADTLRKALKFVDADKLYPCTNCGMTPLSHQVTRGKL
NALSAGAEIVRKELLALR
11111111100000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000
>A7M0D0_4dqa_26_379
NDLLEPKVYFESKEYNFSVEDEMDVMTFDLVSRLSSATSSQVDVSYSVAEPSVVDEYNAKYGTNYEM
LDVSQVKLSSTTSSISSGKLYADNIEVELSGLEALKAGNSYVLPMRVHSSSVSTLSGTNIAYFFFSKPLKI
TKAGNFSNHYISVKFPVGTFFSSFTYEALINVDYFLDNNTIMGTEGVMILRIGDAGGGITPKDYLEVA
GGQNYRVTKPLLTNRWYHVALTYDQPTGKTGIYVNGEKWAGSDWGIDGFDPNSDMGFYIGRIYGFK
WGERPFHGKMSEVRVWSVARTENQLKQNMLGVDPASEGLALYYKLDGSETQEGGVIKDATGRINGT
TNGITIKTLDAPIAIN
11111000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>P11655_4h5i_0_353
MKFVTASYNVGYPAYGAKFLNNDTLLVAGGGGEGNNGIPNKLTVLRVDPTKDTEKEQFHILSEFALE
DNDDSPTAIDASKGIILVGCNENSTKITQGKGNKHLRKFKYDKVNDQLEFLTSVDFDASTNADDYTKL
VYISREGTVAAIASSKVPAIMRIIDPSDLTEKFEIETRGEVKDLHFSTDGKVVAYITGSSLEVISTVTGSCI
ARKTDFDKNWSLSKINFIADDTVLIAASLKKGKGIVLTKISIKSGNTSVLRSKQVTNRFKGITSMDVD
MKGELAVLASNDNSIALVKLKDLSMSKIFKQAHSFAITEVTISPDSTYVASVSAANTIHIIKLPLNYANY
TSMKQKISK
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
>Q3IZQ3_3fdg_0_353
MTETIPVFDGHNDFLLRLLRNPANRETIWLKGDGTGHLDLPRMKEGGFAGGFFAIYVPSPQAHDAA
HFEAMMDAPPFELPLPPMIRAEQAQPVALAMAGHLLWMERAARGRFKVCRTAAEVRSCHADGIVS
GIMHMEGAEAIGADLDALHLFHSLGLRSLGPVWSRPTVFGHGVPFRFPGSPDTGEGLTEAGRRLVAE
CNRLKIMLDLSHLNEKGFDDVARLSDAPLVATHSNAHAVTPSTRNLTDRQLAMIRESRGMVGLNFAT
SFLREDGRRSAEMGWEPVLRHLDHLIDRLGEDHVGMGSDFDGATIPQGIADVTGLPALQAAMRAH
GYDEPLMRKLCHENWYGLLERSWG
11000000000000000000000000000000000000000000000000000011111000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
>A9CI16_2i7g_0_352
MELGLYTFADVNPNPADGRGPEGARRLRELLEEIELADQVGLDVFGLGEHHRPDYVVSSPSTVLAAA
AVKTKNIRLTSAVSVLSSDDPVRVFQQFSTVDLLSNGRAEIMAGRGSFIESYPLFGYDLEDYDVLFAEK
LDLLLALREQEVVTWSGTKHPAINGRGVYPRPLQERLPVWIAVGGTPQSVARAGAMGLPVALAIIGG
EYRRFAPLFDLYHEAARRAGQEKTKLRTSINVHGFIADTTDKAADQFYGPQAEVMNRIGRERGWGP
TNRAHFDAARGPEGNLFLGEPELVAEKIIKAHGVFKNDRFLLQMAIGLMPHDQIMRGIELYGTKVAP
LVRKELTGSADPVKATA
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000001111111111
>B8FRW3_3db2_0_352
MYNPVGVAAIGLGRWAYVMADAYTKSEKLKLVTCYSRTEDKREKFGKRYNCAGDATMEALLAREDV
EMVIITVPNDKHAEVIEQCARSGKHIYVEKPISVSLDHAQRIDQVIKETGVKFLCGHSSRRLGALRKM
KEMIDTKEIGEVSSIEAVFSNERGLELKKGNWRGEPATAPGGPLTQLGVHQIDNLQFLLGPVARVFNF
GKPMYTEVENITVNQTLLEFEDGKQAYLGTNWACPGVFSINVYGTKANLFYQLDFSWWSNSDVTD

EHSTLIKREFASMSDDPDNRILRDVKVDFESVDHLRVEVEEVADVIRNGGETEIGAEASLRNLAVVLA
AVKSVHEKRPVEIAEIIG
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000111111
100000000000000000000000000000000000000000000000000000000000000000000000
>Q13946_1zkl_129_481
SNSLNILDDDYNGQAKCMLEKVGNWNFDIFLFDRLTNGNSLVSLTFHLFSLHGLIEYFHLDMMKLR
RFLVMIQEDYHSQNPYHNAVHAADVTQAMHCYLKEPKLANSVTPWDILLSLIAAATHDLDHPGVN
QPFLIKTNHYLATLYKNTSVLENHHWRSAVGLLRESGLFSHLPLESRQQMETQIGALILATDISRQNE
YLSLFRSHLDRGDLCLEDTRHRHLVLQMALKCADICNPCRTWELSKQWSEKVTEEFFHQGDIEKKY
HLGVSPLCDRHTESIANIQIGFMTYLVEPLFTEWARFSNTRLSQTMLGHVGLNKASWKGLQREQSSS
EDTDAAFELNSQLLPQENRLS
111111111000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000011111111111111111111111111111
>A9WC34_4e3e_0_351
MSAKTNPGNFFEDFRLGQTIVHATPRTITEGDVALYTSLYGSRFALTSSTPFAQSLGLERAPIDSLLVF
HIVFGKTVPDISLNAIANLGYAGGRFGAVVYPGDTLSTTSKVIGLRQNKDGKTGVVYVHSVGVNQWD
EVVLEYIRWVMVRKRDPNAPAPETVVPDLPDSVPVTDLTVPYTVSAANYNLAHAGSNYLWDDYEV
GEKIDHVDGVTIEEAEHMQATRLYQNTARVHFNLHVEREGRFGRRIVYGGHIISLARSLSFNGLANAL
SIAAINSGRHTNPSFAGDTIYAWSEILAKMAIPGRTDIGALRVRTVATKDRPCHDFPYRDAEGNYDPA
VVLDFDYTVLMPRRG
100000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>O66740_2zsj_0_351
MNRWQGIIKQYKKYLPVDENTPIVTLYEGNTPLIEADNLARAIGFKGKIYLKYEGLNPTGSFKDRGM
TLAISKAVEAGKRAVICASTGNTSASAAAYAARAGLRAYVLLPKGAVAIGKLSQAMIYGAKVLAIQGTF
DDALNIVRKIGENFPVEIVNSVNPYRIEGQKTAAFEICDTLGEAPDYHFIPVGNAGNITAYWKGFKIYY
EEGKITKLPRMMGWQAEGAAPIVKGYPIKNPQTIATAIKIGNPYSWKSALKAAQESGGKIDAVSDSEI
LYAYKLIASTEGVFCEPASAASVAGLIKLVREGFFKGGEVVTCTLTGNGLKDPDTAIKVCEEPITVPPDF
DEVVKVLGF
110000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000
>Q43576_3alf_25_376

QNVKGGYWFKDSGLALNNIDSTLFTHLFCAFADLNPQLNQLIISPENQDSFRQFTSTVQRKNPSVKT
FLSIAGGRANSTAYGIMARQPNSRKSFIDSSIRLARQLGFHGLDLDWEYPLSAADMTNLGTLLNEWR
TAINTEARNSGRAALLLTAAVSNSPRVNGLNYPVESLARNLDWINLMAYDFYGPNWSPSQTNSHAQ
LFDPVNHVSGSDGINAWIQAGVPTKKLVLGIPFYGYAWRLVNANIHGLRAPAAGKSNVGAVDDGSMT
YNRIRDYIVESRATTVYNATIVGDYCYSGSNWISYDDTQTVRNKVNYVKGRGLLGYFAWHVAGDQN
WGLSRTASQTWGVSFQEMK
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000001111
>Q5FA19_3fvq_0_351
MTAALHIGHLSKSFQNTPVLNDISLSLDPGEILFIIGASGCGKTTLLRCLAGFEQPDSGEISLSGKTIFSK
NTNLPVRERRLGYLVQEGVLFPHLTVYRNIAYGLGNGKGRTAQERQRIEAMLELTGISELAGRYPHEL
SGGQQQRVALARALAPDPELILLDEPFSALDEQLRRQIREDMIAALRANGKSAVFVSHDREEALQYA
DRIAVMKQGRILQTASPHELYRQPADLDAALFIGEGIVFPAALNADGTADCRLGRLPVQSGAPAGTRG
TLLIRPEQFSLHPHSAPAASIHAVVLKTTPKARHTEISLRAGQTVLTLNLPSAPTLSDGISAVLHLDGP
ALFFPGNTL
1000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
>Q9HXY6_3pmo_1_352
MSTLSYTLGQLAAHVGAEVRGDADLPIQGLATLQEAGPAQLSFLANPQYRKYLPESRAGAVLLTAAD
ADGFAGTALVVANPYLAYASLSHLFDRKPKAAAGIHPTAIVAADAEVDPSASVGAYAVIESGARIGAGV
SIGAHCVIGARSVIGEGGWLAPRVTLYHDVTIGARVSIQSGAVIGGEGFGFANEKGVWQKIAQIGGVTI
GDDVEIGANTTIDRGALSDTLIGNGVKLDNQIMIAHNVQIGDHTAMAACVGISGSAKIGRHCMLAGG
VGLVGHIEICDNVFVTGMTMVTRSITEPGSYSSGTAMQPAAEWKKSAARIRQLDDMARRLQQLEKR
LAAVTSSGDASSDA
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000001111111111111
>P17612_3l9m_0_350
MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLDQFERIKTLGTGSFGRVMLVKHKE
TGNHYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMEYVPGGEMFS
HLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDQQGYIQVTDFGFAKRVKGRTWTL
CGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSHFSSDLKD
LLRNLLQVDLTKRFGNLKNGVNDIKNHKWFATTDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEE
EIRVSINEKCGKEFSEF
1111111111100000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000

0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q180C0_3g68_0_350
MTIQDYMLETPVRMREIISNADSLFNEVKRTNLKKIIITGSGTSYHSGVQVQPYLQNLLDIDVVKMYP
FMITEDTFKFDNENTLVVGVSQGGSSYSTYNAMKLAEDKGCKIASMAGCKNALIDEISDYILTVNCGE
EKSGAKTKGYYCTKLNLMLLGLQIAREKGIISSEKYNEEINKILDAINRFEAVYKLSKQWIERNKEKLV
NSKEIRIIGHSDIYGDTLEAALKLLETMRIPVTGYEFEEFIHGIYNAINSDSTIFILDTGKEPRVTKMIDV
LSGWTENVFAIGRDVTENDKNLKIDITDNPYYQTFNFIVPIQLICGEIPTLRGVDPSVPKDTRFHMKL
GSKKLNK
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
>Q8N8N7_2zb7_0_350
MIVQRVVLNSRPGKNGNPVAENFRMEEVYLPDNINEGQVQVRTLYLSVDPYMRCRMNEDTGTDYIT
PWQLSQVVDGGGIGIIEESKHTNLTKGDFVTSFYWPWQTKVILDGNSLEKVDPQLVDGHLSYFLGAI
GMPGLTSLIGIQEKGHITAGSNKTMVVSGAAGACGSVAGQIGHFLGCSRVVGICGTHEKCILLTSELGFD
AAINYKKDNVAEQLRESCPAGVDVYFDNVGGNISDTVISQMNENSHIILCGQISQYNKDVPYPPPLSP
AIEAIQKERNITRERFLVLNYKDKFEPGILQLSQWFKEGKLKIKETVINGLENMGAAFQSMMTGGNI
GKQIVCISEEISL
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000001
>O58107_2cz9_0_349
MIKVKSPGRVNLIGEHTDYTYGYVMPMAINLYTKIEAEKHGEVILYSEHFGEERKFSLNDLRKENSWI
DYVKGIFWVLKESDYEVGGIKGRVSGNLPLGAGLSSSASFEVGILETLDKLYNLKLDSLSKVLLAKKAE
NEFVGVPCGILDQFAVVFGREGNVIFLDTHTLDYEYIPFPKDVSILVFYTGVRRELASSEYAERKHIAE
ESLKILGKGSSKEVREGELSKLPPLHRKFFGYIVRENARVLEVRDALKEGNVEEVGKILTTAHWDLAK
NYEVSCKELDFFVERALKLGAYGARLTGAGFGGSAIALVDKEDAETIGEEILREYLKRFPWKARHFIV
EPSDGVGI
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000001111000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000
>Q8IJP2_3s6b_167_516
EKEDHLKTIVKKHLSPENFDPTNRKYWVYDDHLKNFVNFKFTGDVRPWPLSKINHVPSHIERPDY
AISSIPESELIYKRKSDIYVNNEEEIQRIREACILGRKTLDYAHTLVSPGVTTDEIDRKVHEFIIKNNAYP
STLNYYKFPKSCCTSVNEIVCHGIPDYRPLKSGDIINIDISVFYKGVHSDLNETYFVGDINDVPKEGKEL
VETCYFSLMEAIKKCKPGMFYKNIGTLIDAYVSKKNFSVVRSYSGHGVGKLFHSNPTVPHFKKNKAV

GIMKPGHVFTIEPMINQGHYSDVLWPDQWTSATSDGKLSAQFEHTLLITNNGVEILTKRTQDSPPLG
FDTKDELYYN
1111000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001
>Q9KUL5_2gu1_62_411
QPKRIHYMVKVGDTLSGIFAQLGVPYSILQKILSVDLDHLQLDMIQPGEELELMMDDMGQLSRLIYH
MSIVEKAIYTRENDGSFSYDFQEISGEWREILFSGEINGSFSVSARRVGLTSSQVANITQVMKDKIDFS
RSLRAGDRFDILVKQQYLGEHNTGNSEIKAISFKLAKGDVSAFLAEDGRFYDRAGNSLERAFNRYPV
DKAYRQITSGFNPKRKHPVTGRVVPHNGTDFATPIGAPVYSTGDGKVIVVRKHPYAGNYLVIEHNSV
YKTRYLHLDKILVKKGQLVKRGQKIALAGATGRLTGPHLHFEVLVRNRPVDAMKADLPIAKSLSSNQ
KTSFLARVSEFDH
1110000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000001
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000001111111111111111111111111
>P15555_1ikg_31_379
ADLPAPDDTGLQAVLHTALSQGAPGAMVRVDDNGTIHQLSEGVADRATGRAITTTDRFRVGSVTKSF
SAVVLLQLVDEGKLDLDASVNTYLPGLLPDDRITVRQVMSHRSGLYDYTNDMFAQTVPGFESVRNK
VFSYQDLITLSLKHGVTNAPGAAYSYSNTNFVVAGMLIEKLTGHSVATEYQNRIFTPLNLTDTFYVHP
DTVIPGTHANGYLTPDEAGGALVDSTEQTVSWAQSAGAVISSTQDLDTFFSALMSGQLMSAAQLAQ
MQQWTTVNSTQGYGLGLRRRDLSCGISVYGHTGTVQGYYTYAFASKDGKRSVTALANTSNNVNVLN
TMARTLESAFCGKPTT
1100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000011
>Q2T5S3_3mcz_0_348
MNASAVETIYESTEDKAALTSVVDLVKLSDQYRQSAILHYAVADKLFDLTQTGRTPAEVAASFGMVEG
KAAILLHALAALGLLTKEGDAFRNTALTERYLTTTSADYIGPIVEHQYLQWDNWPRLGEILRSEKPLA
FQQESRFAHDTRARDAFNDAMVRLSQPMVDVVSELGVFARARTVIDLAGGHGTYLAQVLRRHPQLT
GQIWDLPTTRDAARKTIHAHDLGGRVEFFEKNLLDARNFEGGAADVVMLNDCLHYFDAREAREVI
GHAAGLVKPGGALLILTMTMNDDRVTPALSADFSLHMMVNTNHGELHPTPWIAGVVRDAGLAVGE
RSIGRYTLLIGQRSSGE
1111111000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000
>Q9NRR6_2xsw_274_622

EGSLLASGALLGADELARYFPDRNVALFVATWNMQGQKELPPSLDEFLLPAEADYAQDLYVIGVQEG
CSDRREWETRLQETLGPHYVLLSSAAHGVLYMSLFIRRDLIWFCSEVECSTVTTRIVSQIKTKGALGIS
FTFFGTSFLFITSHFTSGDGKVAERLLDYTRTVQALVLPRNVPDTNPYRSSAADVTTRFDEVFWFGD
FNFRLSGGRTVVDALLCQGLVVDVPALLQHDQLIREMRKGSIFKGFQEPDIHFLPSYKFDIGKDTYDS
TSKQRTPSYTDRVLYRSRHKGDICPVSYSSCPGIKTSDHRPVYGLFRVKVRPGRDNIPLAAGKFDRELY
LLGIKRRIS
11111110000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000001110000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000
>P09148_1guq_0_347
MTQFNPVDHPHRRYNPLTGQWILVSPHRAKRPWQGAQETPAKQVLPAHDPDCFLCAGNVRVTGD
KNPDYTGTYVFTNDFAALMSDTPDAPESHDPLMRCQSARGTSRVICFSPDHSKTLPELSVAALTEIV
KTWQEQTAELGKTYPWVQVFENKGAAMGCSNPHPHGQIWANSFLPNEAEREDRLQKEYFAEQKS
PMLVDYVQRELADGSRTVVETEHWLAVVPYWAAWPFETLLLPKAHVLRITDLTDAQRSDLALALK
KLTSRYDNLFQCSFPYSMGWHGAPFNGEENQHWQLHAHFYPPLLRSATVRKFMVGYEMLAETQR
DLTAEQAAERLRAVSDIHFRESGV
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000111
>P83703_1ujn_0_347
MQRLEVREPVPYPILVGEGVLKEVPPLAGPAALLFDRRVEGFAQEVAKALGVRHLLGLPGGEAAKSL
EVYGKVLSWLAEKGLPRNATLLVVGGGTLTDLGGFVAATYLRGVAYLAFPTTTLAIVDASVGGKTGIN
LPEGKNLVGAFHFPQGVYAELRALKTLPLPTFKEGLVEAFKHGLIAGDEALLKVEDLTPQSPRLEAFL
ARAVAVKVRVTEEDPLEKGKRRLLNLGHTLGHALEAQTRHALPHGMAVAYGLLYAALLGRALGGED
LLPPVRRLLLWLSPPPLPPLAFEDLLPYLLRDKKKVSESLHWVVPLAPGRLVVRPLPEGLLREAFAA
WREELKGLGLLR
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000
00000000000001111111110000000000000000000000000000000000000
>Q7LLW9_2w2k_0_347
MPRPRVLLLGDPARHLDDLWSDFQQKFEVIPANLTTHDGFKQALREKRYGDFEAIIKLAVENGTESY
PWNADLISHLPSSLKVFAAAGAGFDWLDLDALNERGVAFANSRGAGDTATSDLALYLILSVFRLASYS
ERAARTGDPETFNRVHLEIGKSAHNPRGHVLGAVGLGAIQKEIARKAVHGLGMKLVYYDVAPADAET
EKALGAERVDSLEELARRSDCVSVSVPYMKLTHHLIDEAFFAAMKPGSRIVNTARGPVISQDALIAAL
KSGKLLSAGLDVHEFEPQVSKELIEMKHVTLTTHIGGVAIETFHEFERLTMTNIDRFLLQGKPLLTPA
GKVFAPSSAA
10000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000

00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000000000000000000000000000000000000000000000000000000011