>DM\_train3

MKYLAAYLLLVQGGNAAPSAADIKAVVESVGAEVDEARINELLSSLEGKGSLEEIIAEGQKKFATVPTG GASSAAAGAAGAAGAAAGEEKEEEAKEESDDDMGFGLFD

>DM\_train4

PKRKAEGDAKGDKAKVKDEPQRRSARLSAKPAPPKPEPKPKKAPAKKGEKVPKGKKGKADAGKEGN NPAENGDAKTDQAQKAEGAGDAK

>DM train5

MADERKDEGKAPHWTSASLTEAAAHPHSPEMKDQGGSGEGLSRSANGFPYREEEEGAFGEHGSQG TYSDTKENGINGELTSADRETAEEVSARIVQVVTAEAVAVLKGEQEKEAQHKDQPAALPLAAEETVNL PPSPPSPASEQTAALEEDLLTASKMEFPEQQKLPSSFAEPLDKEETEFKMQSKPGEDFEHAALVPQPD TSKTPQDKKDPQDMEGEKSPASPFAQTFGTNLEDIKQITEPSITVPSIGLSAEPLAPKDQKDWFIEMPV ESKKDEWGLAAPISPGPLTPMREKDVLEDIPRWEGKQFDSPMPSPFHGGSFTLPLDTVKDERVTEGSQ PFAPVFFQSDDKMSLQDTSGSATSKESSKDEEPQKDKADKVADVPVSEATTVLGDVHSPAVEGFVGE NISGEEKGTTDQEKKETSTPSVQEPTLTETEPQTKLEETSKVSIEETVAKEEESLKLKDDKAGVIQTSTEQS FSKEDQKGQEQTIEALKQDSFPISLEQAVTDAAMATKTLEKVTSEPEAVSEKREIQGLFEEDIADKSKLE GAGSATVAEVEMPFYEDKSGMSKYFETSALKEDVTRSTGLGSDYYELSDSRGNAQESLDTVSPKNQQ DEKELLAKASQPSPPAHEAGYSTLAQSYTSDHPSELPEEPSSPQERMFTIDPKVYGEKRDLHSKNKDDL TLSRSLGLGGRSAIEORSMSINLPMSCLDSIALGFNFGRGHDLSPLASDILTNTSGSMDEGDDYLPPTT PAVEKIPCFPIESKEEEDKTEOAKVTGGOTTOVETSSESPFPAKEYYKNGTVMAPDLPEMLDLAGTRSR LASVSADAEVARRKSVPSEAVVAESSTGLPPVADDSQPVKPDSQLEDMGYCVFNKYTVPLPSPVQDS ENLSGESGSFYEGTDDKVRRDLATDLSLIEVKLAAAGRVKDEFTAEKEASPPSSADKSGLSREFDQDRK ANDKLDTVLEKSEEHVDSKEHAKESEEVGDKVELFGLGVTYEQTSAKELITTKETAPERAEKGLSSVPEV AEVETTTKADQGLDVAAKKDDQSPLDIKVSDFGQMASGMSVDAGKTIELKFEVDQQLTLSSEAPQET DSFMGIESSHVKDGAKVSETEVKEKVAKPDLVHQEAVDKEESYESSGEHESLTMESLKPDEGKKETSPE TSLIQDEVALKLSVEIPCPPPVSEADSSIDEKAEVQMEFIQLPKEESTETPDIPAIPSDVTQPQPEAVVSEP AEVRGEEEEIEAEGEYDKLLFRSDTLQITDLLVPGSREEFVETCPGEHKGVVESVVTIEDDFITVVQTTTD EGELGSHSVRFAAPVQPEEERRPYPHDEELEVLMAAEAQAEPKDGSPDAPATPEKEEVPFSEYKTETY DDYKDETTIDDSIMDADSLWVDTQDDDRSILTEQLETIPKEERAEKEARRPSLEKHRKEKPFKTGRGRIS TPERREVAKKEPSTVSRDEVRRKKAVYKKAELAKESEVOAHSPSRKLILKPAIKYTRPTHLSCVKRKTTAT SGESAQAPSAFKQAKDKVTDGITKSPEKRSSLPRPSSILPPRRGVSGDREENSFSLNSSISSARRTTRSEPI RRAGKSGTSTPTTPGSTAITPGTPPSYSSRTPGTPGTPSYPRTPGTPKSGILVPSEKKVAIIRTPPKSPATP KQLRLINQPLPDLKNVKSKIGSTDNIKYQPKGGQVRILNKKMDFSKVQSRCGSKDNIKHSAGGGNVQ IVTKKIDLSHVTSKCGSLKNIRHRPGGGRVKIESVKLDFKEKAQAKVGSLDNAHHVPGGGNVKIDSQKL NFREHAKARVDHGAEIITOSPSRSSVASPRRLSNVSSSGSINLLESPOLATLAEDVTAALAKOGL 

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>DM_train13
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>DM_train14
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>DM_train15
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>DM_train16
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>DM\_train17

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>DM\_train18

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>DM train19

MIEKLAEIRKKIDEIDNKILKLIAERNSLAKDVAEIKNQLGIPINDPEREKYIYDRIRKLCKEHNVDENIGIKIF QILIEHNKALQKQYLEETQNKNKK

>DM train25

VASETLKTKKMEVQIKKNFPSVLQYTMTDGKVMYGQSKDVRTVEINGTNIELGDDDVTFKKVSDTEA TYTLKVKDEAKKIDAVITVOITVKANOLHLNVTKIKNNLSEGIPEGNGVEENAIOTLSFPNOSLVSVRSS QENAQFTGARMSSNTQKPGDTNFAVTEDTNVTDSDYTYGFISGAGLSAGLWSNSEHDGTYVAAPV RGGSQNTRVYATTQQTGDATSLGLASAPWYYHRTVTDSKGKKYTVAETALPQMAVAIAGDENEDG AVNWQDGAIAYRDIMNNPYKSEEVPELVAWRIAMNFGSQAQNPFLTTLDNVKKVALNTDGLGQSV LLKGYGNEGHDSGHPDYGDIGORLGGADDMNTMMEEGSKYGARFGVHVNASEMYPEAKAFSED MVRRNSAGGLSYGWNWLDQGVGIDGIYDLASGSRVSRFADLSKEVGDNMDFIYLDVWGNLTSSGS EDSWETRKMSKMINDNGWRMTTEWGSGNEYDSTFQHWAADLTYGGYTSKGENSEVMRFLRNHQ KDSWVGDYPQYGGAANAPLLGGYNMKDFEGWQGRNDYAAYIKNLYTHDVSTKFIQHFKVTRWVN NPLLTADNGNAAAVSDPNTNNGNEQITLKDSNGNVVVVSRGSNDTSSAAYRQRTITFNGVKVASG VVSAGDGSATGDESYLLPWMWDSFTGKLVKDSEQKLYHWNTKGGTTTWTLPDSWKNLSSVKVYQL TDOGKTNEOTVAVSGGKVTLTADAETPYVVYKGEAKOIOVNWSEGMHVVDAGFNGGSNTLTDNW TVSGSGKAEVEGDNNAMLRLTGKVDVSQRLTDLKAGQKYALYVGVDNRSTGDASVTVTSGGKVLAT NSTGKSIAKNYIKAYGHNTNSNTENGSSYFONMYVFFTAPENGDATVTLSHKSTDGAHTYFDDVRIV ENQYSGITYEKDGTLKSLTNGFENNAQGIWPFVVSGSEGVEDNRIHLSELHAPFTRAGWDVKKMDD VLDGTWSVKVNGLTQKGTLVYQTIPQNVKFEAGAKYKVSFDYQSGSDDIYAIAVGQGEYSAGSVKLT NLKKALGETGKAEFELTGGVNGDSWFGIYSTATAPDLOGSTGNAODFGGYKDFVLDNLKIERIESOTR TKAEAQDKVKEIRGKYDSKRAELSDAAWQQYQDTLVKARVLINKNGATAEDFTKAYDILVALDEYMK TAPGNESSDKYDVAADGSDELGGYTVATGSEEPTAGLPSEGPADLAQDGNDSTHWHTSWSENAVG NGTAWYQFNLNEPTTINGLRYLPRSGGMNANGKIKGYKITLTLADGTTKDVVTDAEFSTTTMWQKA SFDAVENVTAVRLTVLSSAGOSDSQANKFASAAELRLTTDRE

# >DM\_train28

MKRIPRKTKGKSSGKGNDSTERSDDGSSQLRDKQNNKAGPATTEPGTSNREQYRARPGIASVQRATE SAELPMKNNDEGTPDKKGNTRGDLVNEHSEAKDEADEATQKQAKDTDKSKAQVTYSDTGINNANE LSRSGNVDNEGGSNOKPMSTRIAEATSAIVSKHPARVGLPPTASSGHGYOCHVCSAVLFSPLDLDAH VASHGLHGNMTLTSSEIQRHITEFISSWQNHPIVQVSADVENKKTAQLLHADTPRLVTWDAGLCTSF KIVPIVPAQVPQDVLAYTFFTSSYAIQSPFPEAAVSRIVVHTRWASNVDFDRDSSVIMAPPTENNIHLF KQLLNTETLSVRGANPLMFRANVLHMLLEFVLDNLYLNRHTGFSQDHTPFTEGANLRSLPGPDAEKW YSIMYPTRMGTPNVSKICNFVASCVRNRVGRFDRAQMMNGAMSEWVDVFETSDALTVSIRGRWM ARLARMNINPTEIEWALTECAOGYVTVTSPYAPSVNRLMPYRISNAEROISOIIRIMNIGNNATVIOPV LODISVLLORISPLOIDPTIISNTMSTVSESTTOTLSPASSILGKLRPSNSDFSSFRVALAGWLYNGVVTT VIDDSSYPKDGGSVTSLENLWDFFILALALPLTTDPCAPVKAFMTLANMMVGFETIPMDNQIYTQSRR ASAFSTPHTWPRCFMNIQLISPIDAPILRQWAEIIHRYWPNPSQIRYGAPNVFGSANLFTPPEVLLLPID HQPANVTTPTLDFTNELTNWRARVCELMKNLVDNQRYQPGWTQSLVSSMRGTLDKLKLIKSMTPM YLQQLAPVELAVIAPMLPFPPFQVPYVRLDRDRVPTMVGVTRQSRDTITQPALSLSTTNTTVGVPLAL DARAITVALLSGKYPPDLVTNVWYADAIYPMYADTEVFSNLQRDMITCEAVQTLVTLVAQISETQYPV DRYLDWIPSLRASAATAATFAEWVNTSMKTAFDLSDMLLEPLLSGDPRMTQLAIQYQQYNGRTFNVI PEMPGSVIADCVQLTAEVFNHEYNLFGIARGDIIIGRVQSTHLWSPLAPPPDLVFDRDTPGVHIFGRDC RISFGMNGAAPMIRDETGMMVPFEGNWIFPLALWQMNTRYFNQQFDAWIKTGELRIRIEMGAYPY MLHYYDPRQYANAWNLTSAWLEEITPTSIPSVPFMVPISSDHDISSAPAVQYIISTEYNDRSLFCTNSSS PQTIAGPDKHIPVERYNILTNPDAPPTQIQLPEVVDLYNVVTRYAYETPPITAVVMGVP 

PISKILVANRSEIAIRVFRAANELGIKTVAIWAEEDKLALHRFKADESYOVGRGPHLARDLGPIESYLSIDE VIRVAKLSGADAIHPGYGLLSESPEFVDACNKAGIIFIGPKADTMRQLGNKVAARNLAISVGVPVVPAT EPLPDDMAEVAKMAAAIGYPVMLKASWGGGGRGMRVIRSEADLAKEVTEAKREAMAAFGKDEVYL EKLVERARHVESQILGDTHGNVVHLFERDCSVQRRNQKVVERAPAPYLSEAQRQELAAYSLKIAGAT NYIGAGTVEYLMDADTGKFYFIEVNPRIQVEHTVTEVVTGIDIVKAQIHILDGAAIGTPQSGVPNQEDIR LNGHALOCRVTTEDPEHNFIPDYGRITAYRSASGFGIRLDGGTSYSGAIITRYYDPLLVKVTAWAPNPL EAISRMDRALREFRIRGVATNLTFLEAIIGHPKFRDNSYTTRFIDTTPELFQQVKRQDRATKLLTYLADVT VNGHPEAKDRPKPLENAARPVVPYANGNGVKDGTKQLLDTLGPKKFGEWMRNEKRVLLTDTTMRD GHQSLLATRMRTYDIARIAGTYSHALPNLLSLECWGGATFDVSMRFLTEDPWERLALIREGAPNLLLQ MLLRGANGVGYTNYPDNVVKYFVRQAAKGGIDLFRVFDCLNWVENMRVSMDAIAEENKLCEAAIC YTGDILNSARPKYDLKYYTNLAVELEKAGAHIIAVKDMAGLLKPAAAKVLFKALREATGLPIHFHTHDTS GIAAATVLAAVEAGVDAVDAAMDALSGNTSOPCLGSIVEALSGSERDPGLDPAWIRRISFYWEAVRN QYAAFESDLKGPASEVYLHEMPGGQFTNLKEQARSLGLETRWHQVAQAYADANQMFGDIVKVTPS SKVVGDMALMMVSQDLTVADVVSPDREVSFPESVVSMLKGDLGQPPSGWPEALQKKALKGEKPYT VRPGSLLKEADLDAERKVIEKKLEREVSDFEFASYLMYPKVFTDFALASDTYGPVSVLPTPAYFYGLADG EELFADIEKGKTLVIVNQAVSATDSQGMVTVFFELNGQPRRIKVPDRAHGATGAAVRRKAEPGNAAH VGAPMPGVISRVFVSSGOAVNAGDVLVSIEAMKMETAIHAEKDGTIAEVLVKAGDQIDAKDLLAVYG

### >DM\_train36

MTRDEMISVEPEAAELQDQHRRDFLKRSGAAVLSLSLSSLATGVVPGFLKDAQAGTKAPGYASWEDI YRKEWKWDKVNWGSHLNICWPQGSCKFYVYVRNGIVWREEQAAQTPACNVDYVDYNPLGCQKG SAFNNNLYGDERVKYPLKRVGKRGEGKWKRVSWDEAAGDIADSIIDSFEAQGSDGFILDAPHVHAGS IAWGAGFRMTYLMDGVSPDINVDIGDTYMGAFHTFGKMHMGYSADNLLDAELIFMTCSNWSYTYP SSYHFLSEARYKGAEVVVIAPDFNPTTPAADLHVPVRVGSDAAFWLGLSQVMIDEKLFDRQFVCEQT DLPLLVRMDTGKFLSAEDVDGGEAKQFYFFDEKAGSVRKASRGTLKLDFMPALEGTFSARLKNGKTIQ VRTVFEGLREHLKDYTPEKASAKCGVPVSLIRELGRKVAKKRTCSYIGFSSAKSYHGDLMERSLFLAMAL SGNWGKPGTGAFAWAYSDDNMVYLGVMSKPTAQGGMDELHQMAEGFNKRTLEADPTSTDEMG NIEFMKVVTSAVGLVPPAMWLYYHVGYDQLWNNKAWTDPALKKSFGAYLDEAKEKGWWTNDHIR PAPDKTPQVYMLLSQNPMRRKRSGAKMFPDVLFPKLKMIFALETRMSSSAMYADIVLPCAWYYEKH EMTTPCSGNPFFTFVDRSVAPPGECREEWDAIALILKKVGERAAARGLTEFNDHNGRKRRYDELYKKF TMDGHLLTNEDCLKEMVDINRAVGVFAKDYTYEKFKKEGQTRFLSMGTGVSRYAHANEVDVTKPIYP MRWHFDDKKVFPTHTRRAQFYLDHDWYLEAGESLPTHKDTPMVGGDHPFKITGGHPRVSIHSTHLT NSHLSRLHRGQPVVHMNSKDAAELGIKDGDMAKLFNDFADCEIMVRTAPNVQPKQCIVYFWDAH OYKGWKPYDILLIGMPKPLHLAGGYEOFRYYFMNGSPAPVTDRGVRVSIKKA

>DM train37

MASTKAPGPGEKHHSIDAQLRQLVPGKVSEDDKLIEYDALLVDRFLNILQDLHGPSLREFVQECYEVS ADYEGKGDTTKLGELGAKLTGLAPADAILVASSILHMLNLANLAEEVQIAHRRRNSKLKKGGFADEGS ATTESDIEETLKRLVSEVGKSPEEVFEALKNQTVDLVFTAHPTQSARRSLLQKNARIRNCLTQLNAKDIT DDDKQELDEALQREIQAAFRTDEIRRAQPTPQAEMRYGMSYIHETVWKGVPKFLRRVDTALKNIGINE RLPYNVSLIRFSSWMGGDRDGNPRVTPEVTRDVCLLARMMAANLYIDQIEELMFELSMWRCNDELR VRAEELHSSSGSKVTKYYIEFWKQIPPNEPYRVILGHVRDKLYNTRERARHLLASGVSEISAESSFTSIEEF LEPLELCYKSLCDCGDKAIADGSLLDLLRQVFTFGLSLVKLDIRQESERHTDVIDAITTHLGIGSYREWPE DKRQEWLLSELRGKRPLLPPDLPQTDEIADVIGAFHVLAELPPDSFGPYIISMATAPSDVLAVELLQREC GVRQPLPVVPLFERLADLQSAPASVERLFSVDWYMDRIKGKQQVMVGYSDSGKDAGRLSAAWQLY RAQEEMAQVAKRYGVKLTLFHGRGGTVGRGGGPTHLAILSQPPDTINGSIRVTVQGEVIEFCFGEEHL CFQTLQRFTAATLEHGMHPPVSPKPEWRKLMDEMAVVATEEYRSVVVKEARFVEYFRSATPETEYGR MNIGSRPAKRRPGGGITTLRAIPWIFSWTQTRFHLPVWLGVGAAFKFAIDKDVRNFQVLKEMYNEWP FFRVTLDLLEMVFAKGDPGIAGLYDELLVAEELKPFGKQLRDKYVETQQLLLQIAGHKDILEGDPFLKQ GLVLRNPYITTLNVFQAYTLKRIRDPNFKVTPQPPLSKEFADENKPAGLVKLNPASEYPPGLEDTLILTM KGIAAGMONTG

>DM train38

SEESQAFQRQLTALIGYDVTDVSNVHDDELEFTRRGLVTPRMAEVASRDPKLYAMHPWVTSKPLPEY LWKKIANNCIFIKIHRSTTSQTIKVSPDDTPGAILQSFFTKMAKKKSLMDIPESQSEQDFVLRVCGRDEY LVGETPIKNFQWVRHCLKNGEEIHVVLDTPPDPALDEVRKEEWPLADDCTGVTGYHEQLTIHGKDHE SVFTVSLWDCDRKFRVKIRGIDIPVLPRNTDLTVFVEANIOHGOOVLCORRTSPKPFTEEVLWNVWLE FSIKIKDLPKGALLNLQIYCGKAPALSSKASAESPSSESKGKVRLLYYVNLLLIDHRFLLRRGEYVLHMWQ ISGKGEDOGSFNADKLTSATNPDKENSMSISILLDNYCHPIALPKHOPTPDPEGDRVRAEMPNOLRK QLEAIIATDPLNPLTAEDKELLWHFRYESLKHPKAYPKLFSSVKWGQQEIVAKTYQLLARREVWDQSAL DVGLTMQLLDCNFSDENVRAIAVQKLESLEDDDVLHYLLQLVQAVKFEPYHDSALARFLLKRGLRNK RIGHFLFWFLRSEIAQSRHYQQRFAVILEAYLRGCGTAMLHDFTQQVQVIEMLQKVTLDIKSLSAEKYD VSSQVISQLKQKLENLQNSQLPESFRVPYDPGLKAGALAIEKCKVMASKKKPLWLEFKCADPTALSNE TIGIIFKHGDDLRQDMLILQILRIMESIWETESLDLCLLPYGCISTGDKIGMIEIVKDATTIAKIQQSTVGNT GAFKDEVLNHWLKEKSPTEEKFQAAVERFVYSCAGYCVATFVLGIGDRHNDNIMITETGNLFHIDFGH ILGNYKSFLGINKERVPFVLTPDFLFVMGTSGKKTSPHFQKFQDICVKAYLALRHHTNLLIILFSMMLMT GMPQLTSKEDIEYIRDALTVGKNEEDAKKYFLDQIEVCRDKGWTVQFNWFLHLVLGIKQGEKHSAHH

>DM\_train41

MSHHKKRVYPQAQLQYGQNATPLQQPAQFMPPQDPAAAGMSYGQMGMPPQGAVPSMGQQQ FLTPAQEQLHQQIDQATTSMNDMHLHNVPLVDPNAYMQPQVPVQMGTPLQQQQQPMAAPAY GOPSAAMGONMRPMNOLYPIDLLTELPPPITDLTLPPPPLVIPPERMLVPSELSNASPDYIRSTLNAVP KNSSLLKKSKLPFGLVIRPYQHLYDDIDPPPLNEDGLIVRCRRCRSYMNPFVTFIEQGRRWRCNFCRLA NDVPMQMDQSDPNDPKSRYDRNEIKCAVMEYMAPKEYTLRQPPPATYCFLIDVSQSSIKSGLLATTI NTLLQNLDSIPNHDERTRISILCVDNAIHYFKIPLDSENNEESADQINMMDIADLEEPFLPRPNSMVVS LKACRQNIETLLTKIPQIFQSNLITNFALGPALKSAYHLIGGVGGKIIVVSGTLPNLGIGKLQRRNESGVV NTSKETAQLLSCQDSFYKNFTIDCSKVQITVDLFLASEDYMDVASLSNLSRFTAGQTHFYPGFSGKNP NDIVKFSTEFAKHISMDFCMETVMRARGSTGLRMSRFYGHFFNRSSDLCAFSTMPRDQSYLFEVNVD ESIMADYCYVQVAVLLSLNNSQRRIRIITLAMPTTESLAEVYASADQLAIASFYNSKAVEKALNSSLDDA RVLINKSVQDILATYKKEIVVSNTAGGAPLRLCANLRMFPLLMHSLTKHMAFRSGIVPSDHRASALNN LESLPLKYLIKNIYPDVYSLHDMADEAGLPVQTEDGEATGTIVLPQPINATSSLFERYGLYLIDNGNELFL WMGGDAVPALVFDVFGTQDIFDIPIGKQEIPVVENSEFNQRVRNIINQLRNHDDVITYQSLYIVRGAS LSEPVNHASAREVATLRLWASSTLVEDKILNNESYREFLQIMKARISK

>DM\_train42

MEETAVPENSGANTELVSGESEHSTNEADKQNEGEHARENKLEKAEGVATASETASPASNEAATTET AEAASAAKPEEKASEVVAETPSAEAKPKSDKETEAKPEATNQGDESKPAAEANKTEKEVQPDVPKNTE KTLKPKEIKFNSWEELLKWEPGAREDDAINRGSVVLASRRTGHLVNEKASKEAKVQALSNTNSKAKDH ASVGGEEFKAYAFDYWQYLDSMVFWEGLVPTPDVIDAGHRNGVPVYGTLFFNWSNSIADQERFAEA LKQDADGSFPIARKLVDMAKYYGYDGYFINQETTGDLVKPLGEKMRQFMLYSKEYAAKVNHPIKYSW YDAMTYNYGRYHQDGLGEYNYQFMQPEGDKVPADNFFANFNWDKAKNDYTIATANWIGRNPYD VFAGLELQQGGSYKTKVKWNDILDENGKLRLSLGLFAPDTITSLGKTGEDYHKNEDIFFTGYQGDPTG QKPGDKDWYGIANLVADRTPAVGNTFTTSFNTGHGKKWFVDGKVSKDSEWNYRSVSGVLPTWRW WQTSTGEKLRAEYDFTDAYNGGNSLKFSGDVAGKTDQDVRLYSTKLEVTEKTKLRVAHKGGKGSKVY MAFSTTPDYKFDDADAWKELTLSDNWTNEEFDLSSLAGKTIYAVKLFFEHEGAVKDYQFNLGQLTISD NHQEPQSPTSFSVVKQSLKNAQEAEAVVQFKGNKDADFYEVYEKDGDSWKLLTGSSSTTIYLPKVSR SASAQGTTQELKVVAVGKNGVRSEAATTTFDWGMTVKDTSLPKPLAENIVPGATVIDSTFPKTEGGE GIEGMLNGTITSLSDKWSSAQLSGSVDIRLTKSRTVVRWVMDHAGAGGESVNDGLMNTKDFDLYYK DADGEWKLAKEVRGNKAHVTDITLDKPITAQDWRLNVVTSDNGTPWKAIRI

### >DM train44

MAAQNEQRPERIKTTPYLEGDVLSSDSGPLLSVFALQEIMQKVRQVQADYMTATREVDFTVPDVQQI LDDIKALAAEQVYKIVKVPSTSFRHIVTQSRDRVLRVDTYYEEMSQVGDVITEDEPEKFYSTIIKKVRFIRG KGSFILHDIPARDHRGMEVAEPEVLGVEFKNVLPVLTAEHRAMIQNALDGSIIENGNVATRDVDVFIG ACSEPIYRIYNRLQGYIEAVQLQELRNSIGWLERLGQRKRITYSQEVLTDFRRQDMIWVLALQLPVNP QVVWDVPRSSIANLIMNIATCLPTGEYIAPNPRISSITLTQRITTTGPFAILTGSTPTAQQLNDVRKIYLAL MFPGQIILDLKIDPGERMDPAVRMVAGVVGHLLFTAGGRFTNLTQNMARQLDIALNDYLLYMYNTR VQVNYGPTGEPLDFQIGRNQYDCNVFRADFATGTGYNGWATIDVEYRDPAPYVHAQRYIRYCGIDS RELINPTTYGIGMTYHCYNEMLRMLVAAGKDSEAAYFRSMLPFHMVRFARINQIINEDLHSVFSLPDD MFNALLPDLIAGAHQNADPVVLDVSWISLWFAFNRSFEPTHRNEMLEIAPLIESVYASELSVMKVDM RHLSLMQRRFPDVLIQARPSHFWKAVLNDSPEAVKAVMNLSHSHNFINIRDMMRWVLLPSLQPSLK LVLEEEAWAAANDFEDLMLTDQVYMHRDMLPEPRLDDIERFRQEGFYYTNMLEAPPEIDRVVQYTYE IARLQANMGQFRAALRRIMDDDDWVRFGGVLRTVRVKFFDARPPDDILQGLPFSYDTNEKGGLSYA TIKYATETTIFYLIYNVEFSNTPDSLVLINPTYTMTKVFINKRIVERVRVGQILAVLNRRFVAYKGKMRIMD ITOSLKMGTKLAAPTV

# >DM train46

MERAGPSFGQQRQQQPQQKQQQRDQDSVEAWLDDHWDFTFSYFVRKATREMVNAWFAER VHTIPVCKEGIRGHTESCSCPLQQSPRADNSVPGTPTRKISASEFDRPLRPIVVKDSEGTVSFLSDSEKKE QMPLTPPRFDHDEGDQCSRLLELVKDISSHLDVTALCHKIFLHIHGLISADRYSLFLVCEDSSNDKFLISR LFDVAEGSTLEEVSNNCIRLEWNKGIVGHVAALGEPLNIKDAYEDPRFNAEVDQITGYKTQSILCMPIK NHREEVVGVAQAINKKSGNGGTFTEKDEKDFAAYLAFCGIVLHNAQLYETSLLENKRNQVLLDLASLI FEEQQSLEVILKKIAATIISFMQVQKCTIFIVDEDCSDSFSSVFHMECEELEKSSDTLTREHDANKINYMY AQYVKNTMEPLNIPDVSKDKRFPWTTENTGNVNQQCIRSLLCTPIKNGKKNKVIGVCQLVNKMEEN

TGKVKPFNRNDEQFLEAFVIFCGLGIQNTQMYEAVERAMAKQMVTLEVLSYHASAAEEETRELQSLA AAVVPSAQTLKITDFSFSDFELSDLETALCTIRMFTDLNLVQNFQMKHEVLCRWILSVKKNYRKNVAY HNWRHAFNTAQCMFAALKAGKIQNKLTDLEILALLIAALSHDLDHRGVNNSYIQRSEHPLAQLYCHS IMEHHHFDQCLMILNSPGNQILSGLSIEEYKTTLKIIKQAILATDLALYIKRRGEFFELIRKNQFNLEDPHQ KELFLAMLMTACDLSAITKPWPIQQRIAELVATEFFDQGDRERKELNIEPTDLMNREKKNKIPSMQVG FIDAICLQLYEALTHVSEDCFPLLDGCRKNRQKWQALAEQQEKMLINGESGQAKRN

# >DM\_train49

VFGSRNDRTLRRMRKVVNIINAMEPEMEKLSDEELKGKTAEFRARLEKGEVLENLIPEAFAVVREASKR VFGMRHFDVQLLGGMVLNERCIAEMRTGEGKTLTATLPAYLNALTGKGVHVVTVNDYLAQRDAEN NRPLFEFLGLTVGINLPGMPAPAKREAYAADITYGTNNEYGFDYLRDNMAFSPEERVQRKLHYALVDE VDSILIDEARTPLIISGPAEDSSEMYKRVNKIIPHLIRQEKEDSETFQGEGHFSVDEKSRQVNLTERGLVLI EELLVKEGIMDEGESLYSPANIMLMHHVTAALRAHALFTRDVDYIVKDGEVIIVDEHTGRTMQGRRW SDGLHQAVEAKEGVQIQNENQTLASITFQNYFRLYEKLAGMTGTADTEAFEFSSIYKLDTVVVPTNRP MIRKDLPDLVYMTEAEKIQAIIEDIKERTAKGQPVLVGTISIEKSELVSNELTKAGIKHNVLNAKFHANEA AIVAQAGYPAAVTIATNMAGRGTDIVLGGSWQAEVAALENPTAEQIEKIKADWQVRHDAVLEAGGL HIIGTERHESRRIDNQLRGRSGRQGDAGSSRFYLSMEDALMRIFASDRVSGMMRKLGMKPGEAIEHP WVTKAIANAQRKVESRNFDIRKQLLEYDDVANDQRRAIYSQRNELLDVSDVSETINSIREDVFKATIDA YIPPQSLEEMWDIPGLQERLKNDFDLDLPIAEWLDKEPELHEETLRERILAQSIEVYQRKEEVVGAEMM RHFEKGVMLQTLDSLWKEHLAAMDYLRQGIHLRGYAQKDPKQEYKRESFSMFAAMLESLKYEVISTL SKVQVRMPEEVEELEQQRRMEAERLAQMQQLSHQD

# >DM\_train53

SSNPTVSALRSERTRHSVSDKSTKVFVPPFKVKSRFHRDEHFDSKNVNLEGKNOKSADGVSEDGNDS DFPQFNKDLMSSLQNARDLQDIRIKNKERHHLCPQPGSLYLTKSSTLPRISLQAAVGDSVPSACSPKQ LYMYGVSKACISVNSKNAEYFQFAIEDHFGKEALCAGKGFRLADGGWLIPSDDGKAGKEEFYRALCDT PGVDPKLISSVWVSNHYRWIVWKLAAMEFAFPKEFANRCLNPERVLLOLKYRYDVEIDNSSRSALKKIL ERDDTAAKTLVLCVSDIISLSTNVSETSGSKASSEDSNKVDTIELTDGWYAVKAQLDPPLLALVKSGRLT VGOKIITOGAELVGSPDACAPLEAPDSLRLKISANSTRPARWHSKLGFFHDPRPFPLPLSSLFSDGGNV GCVDVIVQRVYPLQWVEKTVSGSYIFRNEREEEKEALRFAEAQQKKLEALFTKVHTELKEHEEDIAQRR VLSRALTROOVHALODGAELYAAVODASDPEHLETCFSEEOLRALNNYROMLSDKKOARIOSEFRK ALEAAEKEEGLSRDVSTVWKLRVTSYKKREKSALLSIWRPSSDLPSLLTEGQRYRIYHLSVSKSKNKFEW PSIQLTATKRTQYQQLPVSSETLLQLYQPRELLPFSKLSDPAFQPPCSEVDVVGVVVSVVKPIGLAPLVY LSDECLHLLVVKFGIDLNEDIKPRVLIAASNLOWRPESTSRVPTLFAGNFSVFSASPKEAHFOERVTNM KHAIENIDTFYKEAEKKLIQVLKGDSPKWSTPNKDPTREPYPASTCSASDLASGGQLPRSSP 

>DM\_train55

MSKLTTGSFSIEDLESVOITINNIVGAAKEAAEEKEKELVNAGPTLFPGLEGYRDDWNFKLLDRYEPVITP MCDOCCYCTYGPCDLSGNKRGACGIDMKGHNGREFFLRVITGTACHAAHGRHLLDHLIEKYGEDLP LTLGOSNVLTPNITISTGLSPKTLGEVKPAMEYVEEOLTOLLATVHAGQESAEIDYDSKALFSGSLDHV GMEISDIVQVAAYDFPKADPEAPLVEIGMGTIDKSKPFLCVIGHNVAGVTYMMDYMEDNNLTDKMEI AGLCCTAIDLTRYKEADRRPPYAKVIGSMSKELKVIRSGMPDVIVVDEQCVRGDIVPEAQKLKIPVIASN PKIMYGLPNRTDADVDETMEELKSGKIPGCVMLDYDKLGELCVRLTMEMAPIRDAAGITALPTDEELV NMVAKCADCGACLLACPEEIDIPEAMGFAKKGDFSYFEEIHDTCIGCRRCEQVCKKEIPILNVIEKIAQK OIAEEKGLMRAGRGOVSDAEIRAEGLNLVMGTTPGIIAIIGCPNYAGGTKDVYYIAEEFLKRNFIVVTTG CGAMDIGMFKDADGKTLYERFPGGFQCGGLANIGSCVSNAHITGAAEKVAAIFAQRTLEGNLAEIGD YILNRVGACGLAWGAFSQKASSIGTGCNIFGIPAVLGPHSSKYRRALIAKTYEEDKWKVYDARNGQE MPIPPAPEFLLTTAETWQEAIPMMAKACIRPSDNSMGRAIKLTHWMELHKKYLGGKEPEDWWKFVR TEADLPLATREALLKELEKEHGWEIDWKRKKIISGPKIKFDVSAQPTNLKRLCKEA 

>DM train57

ENALKKSDGTRKSRITNYPKLEDANKAGTKEGYKCTLVLTEGDSALSLAVAGLAVVGRDYYGCYPLRG KMLNVREASADQILKNAEIQAIKKIMGLQHRKKYEDTKSLRYGHLMIMTDQDHDGSHIKGLIINFLESS FLGLLDIQGFLLEFITPIIKVSITKPTKNTIAFYNMPDYEKWREEESHKFTWKQKYYKGLGTSLAQEVREYF SNLDRHLKIFHSLQGNDKDYIDLAFSKKKADDRKEWLRQYEPGTVLDPTLKEIPISDFINKELILFSLADN IRSIPNVLDGFKPGQRKVLYGCFKKNLKSELKVAQLAPYVSECTAYHHGEQSLAQTIIGLAQNFVGSN NIYLLLPNGAFGTRATGGKDAAAARYIYTELNKLTRKIFHPADDPLYKYIQEDEKTVEPEWYLPILPMILV NGAEGIGTGWSTYIPPFNPLEIIKNIRHLMNDEELEQMHPWFRGWTGTIEEIEPLRYRMYGRIEQIGDN VLEITELPARTWTSTIKEYLLLGLSGNDKIKPWIKDMEEQHDDNIKFIITLSPEEMAKTRKIGFYERFKLISPI SLMNMVAFDPHGKIKKYNSVNEILSEFYYVRLEYYQKRKDHMSERLQWEVEKYSFQVKFIKMIIEKELT VTNKPRNAIIQELENLGFPRFNKEGKPYYGSPNDEIAEQINDVKGATSDEEDEESSHEDTENVINGPEEL YGTYEYLLGMRIWSLTKERYQKLLKQKQEKETELENLLKLSAKDIWNTDLKAFEVGYQEFLQRDAEARG GNVPNKGSKTKGKGKRKLVDDED

>DM\_train64

MPGSDAGPRRRGVHEQRRNRMSNEAKCPFHQAAGNGTSNRDWWPNQLDLSILHRHSSLSDPMG KDFNYAQAFEKLDLAAVKRDLHALMTTSQDWWPADFGHYGGLFIRMAWHSAGTYRTADGRGGAG EGQQRFAPLNSWPENANLDKARRLLWPIKQKYGRAISWADLLILTGNVALESMGFKTFGFAGGRAD TWEPEDVYWGSEKIWLELSGGPNSRYSGDRQLENPLAAVQMGLIYVNPEGPDGNPDPVAAARDIRD TFARMAMNDEETVALIAGGHTFGKTHGAGPASNVGAEPEAAGIEAQGLGWKSAYRTGKGADAITSG LEVTWTTTPTQWSHNFFENLFGYEWELTKSPAGAHQWVAKGADAVIPDAFDPSKKHRPTMLTTDLS LRFDPAYEKISRRFHENPEQFADAFARAWFKLTHRDMGPRARYLGPEVPAEVLLWQDPIPAVDHPLID AADAAELKAKVLASGLTVSQLVSTAWAAASTFRGSDKRGGANGARIRLAPQKDWEANQPEQLAAV LETLEAIRTAFNGAQRGGKQVSLADLIVLAGCAGVEQAAKNAGHAVTVPFAPGRADASQEQTDVES MAVLEPVADGFRNYLKGKYRVPAEVLLVDKAQLLTLSAPEMTVLLGGLRVLGANVGQSRHGVFTARE QALTNDFFVNLLDMGTEWKPTAADADVFEGRDRATGELKWTGTRVDLVFGSHSQLRALAEVYGSA DAQEKFVRDFVAVWNKVMNLDRFDLA

MKNRLWLAMAAPLALATPVAFAQTPPTLAKDQAMPSLPPYPASPQVPLVEDHFGEKVSDPWRWLE ADVRTDAKVAAWVQAQSAYTAAYLKQLPERAALEKRMKALIDYERFGLPQRRGASVFYSWNSGLM NQSQLLVRPADAPVGTKGRVLLDPNTWAKDGATALDAWAASDDGRLLAYSVQDGGSDWRTVKFV GVADGKPLADELKWVKFSGLAWLGNDALLYSRFAEPKEGQAFQALNYNQTVWLHRLGTPQSADQP VFATPELPKRGHGASVSSDGRWVVITSSEGTDPVNTVHVARVTNGKIGPVTALIPDLKAQWDFVDGV GDQLWFVSGDGAPLKKIVRVDLSGSTPRFDTVVPESKDNLESVGIAGNRLFASYIHDAKSQVLAFDLD GKPAGAVSLPGIGSASGLSGRPGDRHAYLSFSSFTQPATVLALDPATAKTTPWEPVHLTFDPADFRVE QVFYPSKDGTKVPMFIVRRKDAKGPLPTLLYGYGGFNVALTPWFSAGFMTWIDSGGAFALANLRGG GEYGDAWHDAGRRDKKQNVFDDFIAAGEWLIANGVTPRHGLAIEGGSNGGLLIGAVTNQRPDLFA AASPAVGVMDMLRFDQFTAGRYWVDDYGYPEKEADWRVLRRYSPYHNVRSGVDYPAILVTTADTD DRVVPGHSFKYTAALQTAAIGPKPHLIRIETRAGHGSGKPIDKQIEETADVQAFLAHFTGLTPRPWSSV DKLAAALE

### >DM train71

MNFLSEQLLAHLNKEQQEAVRTTEGPLLIMAGAGSGKTRVLTHRIAYLMAEKHVAPWNILAITFTNKA AREMRERVQSLLGGAAEDVWISTFHSMCVRILRRDIDRIGINRNFSILDPTDQLSVMKTILKEKNIDPKK FEPRTILGTISAAKNELLPPEQFAKRASTYYEKVVSDVYQEYQQRLLRNHSLDFDDLIMTTIQLFDRVPD VLHYYQYKFQYIHIDEYQDTNRAQYTLVKKLAERFQNICAVGDADQSIYRWRGADIQNILSFERDYPN AKVILLEQNYRSTKRILQAANEVIEHNVNRKPKRIWTENPEGKPILYYEAMNEADEAQFVAGRIREAVE RGERRYRDFAVLYRTNAQSRVMEEMLLKANIPYQIVGGLKFYDRKEIKDILAYLRVIANPDDDLSLLRII NVPKRGIGASTIDKLVRYAADHELSLFEALGELEMIGLGAKAAGALAAFRSQLEQWTQLQEYVSVTEL VEEVLDKSGYREMLKAERTIEAQSRLENLDEFLSVTKHFENVSDDKSLIAFLTDLALISDLDELDGTEQA AEGDAVMLMTLHAAKGLEFPVVFLIGMEEGIFPHNRSLEDDDEMEEERRLAYVGITRAEEELVLTSAQ MRTLFGNIQMDPPSRFLNEIPAHLLETASRRQAGASRPAVSRPQASGAVGSWKVGDRANHRKWGI GTVVSVRGGGDDQELDIAFPSPIGIKRLLAKFAPIEKV

# >DM\_train76

GTGTRFGTDLAKEAKKVHQTTRTVPAKRGTIYDRNGVPIAEDATSYNVYAVIDENYKSATGKILYVEKT QFNKVAEVFHKYLDMEESYVREQLSQPNLKQVSFGAKGNGITYANMMSIKKELEAAEVKGIDFTTSP NRSYPNGQFASSFIGLAQLHENEDGSKSLLGTSGMESSLNSILAGTDGIITYEKDRLGNIVPGTEQVSQ RTMDGKDVYTTISSPLQSFMETQMDAFQEKVKGKYMTATLVSAKTGEILATTQRPTFDADTKEGITED FVWRDILYQSNYEPGSTMKVMMLAAAIDNNTFPGGEVFNSSELKIADATIRDWDVNEGLTGGRMM TFSQGFAHSSNVGMTLLEQKMGDATWLDYLNRFKFGVPTRFGLTDEYAGQLPADNIVNIAQSSFGQ GISVTQTQMIRAFTAIANDGVMLEPKFISAIYDPNDQTARKSQKEIVGNPVSKDAASLTRTNMVLVGT DPVYGTMYNHSTGKPTVTVPGQNVALKSGTAQIADEKNGGYLVGLTDYIFSAVSMSPAENPDFILYV TVQQPEHYSGIQLGEFANPILERASAMKDSLNLQTTAKALEQVSQQSPYPMPSVKDISPGDLAEELRR NLVQPIVVGTGTKIKNSSAEEGKNLAPNQQVLILSDKAEEVPDMYGWTKETAETLAKWLNIELEFQGS GSTVQKQDVRANTAIKDIKKITLTLGD

### >DM train78

AVGDRCERNEFQCQDGKCISYKWVCDGSAECQDGSDESQETCLSVTCKSGDFSCGGRVNRCIPQF WRCDGQVDCDNGSDEQGCPPKTCSQDEFRCHDGKCISRQFVCDSDRDCLDGSDEASCPVLTCGP ASFQCNSSTCIPQLWACDNDPDCEDGSDEWPQRCRGLYVFQGDSSPCSAFEFHCLSGECIHSSWRC DGGPDCKDKSDEENCAVATCRPDEFQCSDGNCIHGSRQCDREYDCKDMSDEVGCVNVTLCEGPN KFKCHSGECITLDKVCNMARDCRDWSDEPIKECGTNECLDNNGGCSHVCNDLKIGYECLCPDGFQL VAQRRCEDIDECQDPDTCSQLCVNLEGGYKCQCEEGFQLDPHTKACKAVGSIAYLFFTNRHEVRKM TLDRSEYTSLIPNLRNVVALDTEVASNRIYWSDLSQRMICSTQLDRAHGVSSYDTVISRDIQAPDGLAV DWIHSNIYWTDSVLGTVSVADTKGVKRKTLFREQGSKPRAIVVDPVHGFMYWTDWGTPAKIKKGGL NGVDIYSLVTENIQWPNGITLDLLSGRLYWVDSKLHSISSIDVNGGNRKTILEDEKRLAHPFSLAVFEDK VFWTDIINEAIFSANRLTGSDVNLLAENLLSPEDMVLFHQLTQPRGVNWCERTTLSNGGCQYLCLPA PQINPHSPKFTCACPDGMLLARDMRSCLTEAEAAVA

# >DM\_train80

GPNICTTRGVSSCQQCLAVSPMCAWCSDEALPLGSPRCDLKENLLKDNCAPESIEFPVSEARVLEDRP LSDKGSGDSSQVTQVSPQRIALRLRPDDSKNFSIQVRQVEDYPVDIYYLMDLSYSMKDDLWSIQNLG TKLATQMRKLTSNLRIGFGAFVDKPVSPYMYISPPEALENPCYDMKTTCLPMFGYKHVLTLTDQVTRF NEEVKKQSVSRNRDAPEGGFDAIMQATVCDEKIGWRNDASHLLVFTTDAKTHIALDGRLAGIVQPN DGQCHVGSDNHYSASTTMDYPSLGLMTEKLSQKNINLIFAVTENVVNLYQNYSELIPGTTVGVLSMD SSNVLQLIVDAYGKIRSKVELEVRDLPEELSLSFNATCLNNEVIPGLKSCMGLKIGDTVSFSIEAKVRGCP QEKEKSFTIKPVGFKDSLIVQVTFDCDCACQAQAEPNSHRCNNGNGTFECGVCRCGPGWLGSQCEC SEEDYRPSQQDECSPREGQPVCSQRGECLCGQCVCHSSDFGKITGKYCECDDFSCVRYKGEMCSGH GQCSCGDCLCDSDWTGYYCNCTTRTDTCMSSNGLLCSGRGKCECGSCVCIQPGSYGDTCEKCPTC PDACTFKKECVECKKFDREPYMTENTCNRYCRDEIESVKELKDTGKDAVNCTYKNEDDCVVRFQYYE DSSGKSII YVVFEPFCPKGPD

### >DM train81

MGTVSSRRSWWPLPLLLLLLLLGPAGARAQEDEDGDYEELVLALRSEEDGLAEAPEHGTTATFHRCA KDPWRLPGTYVVVLKEETHLSQSERTARRLQAQAARRGYLTKILHVFHGLLPGFLVKMSGDLLELALKL PHVDYIEEDSSVFAQSIPWNLERITPPRYRADEYQPPDGGSLVEVYLLDTSIQSDHREIEGRVMVTDFE NVPEEDGTRFHRQASKCDSHGTHLAGVVSGRDAGVAKGASMRSLRVLNCQGKGTVSGTLIGLEFIRK SQLVQPVGPLVVLLPLAGGYSRVLNAACQRLARAGVVLVTAAGNFRDDACLYSPASAPEVITVGATN AQDQPVTLGTLGTNFGRCVDLFAPGEDIIGASSDCSTCFVSQSGTSQAAAHVAGIAAMMLSAEPELT LAELRQRLIHFSAKDVINEAWFPEDQRVLTPNLVAALPPSTHGAGWQLFCRTVWSAHSGPTRMATAI ARCAPDEELLSCSSFSRSGKRRGERMEAQGGKLVCRAHNAFGGEGVYAIARCCLLPQANCSVHTAPP AEASMGTRVHCHQQGHVLTGCSSHWEVEDLGTHKPPVLRPRGQPNQCVGHREASIHASCCHAPG LECKVKEHGIPAPQEQVTVACEEGWTLTGCSALPGTSHVLGAYAVDNTCVVRSRDVSTTGSTSEEAV TAVAICCRSRHLAQASQELQ

### >DM train93

PGGVPWIAIGDETSVTSPGALRRMTSKDIPETAIINTDNSSGAVPSESALVPYNDEPLVVVTEHAIANFT KAEMALEFNREFLDKLRVLSVSPKYSDLLTYVDCYVGVSARQALNNFQKQVPVITPTRQTMYVDSIQA ALKALEKWEIDLRVAQTLLPTNVPIGEVSCPMQSVVKLLDDQLPDDSLIRRYPKEAAVALAKRNGGIQ WMDVSEGTVMNEAVNAVAASALAPSASAPPLEEKSKLTEQAMDLVTAAEPEIIASLVPVPAPVFAIPP KPADYNVRTLKIDEATWLRMIPKTMGTLFQIQVTDNTGTNWHFNLRGGTRVVNLDQIAPMRFVLDL GGKSYKETSWDPNGKKVGFIVFQSKIPFELWTAASQIGQATVVNYVQLYAEDSSFTAQSIIATTSLAYN YEPEQLNKTDPEMNYYLLATFIDSAAITPTNMTQPDVWDALLTMSPLSAGEVTVKGAVVSEVVPAELI GSYTPESLNASLPNDAARCMIDRASKIAEAIKIDDDAGPDEYSPNSVPIQGQLAISQLETGYGVRIFNPK GILSKIASRAMQAFIGDPSTIITQAAPVLSDKNNWIALAQGVKTSLRTKSLSAGVKTAVSKLSSSESIQN WTQGFLDKVSTHFPAPKPDCPTNGDGSEPSARRVKRDSYAGVVKRGYTR

# >DM train94

TFRYRGPSPKGDQPKAIAGLVEALRDGERFVTLLGATGTGKTVTMAKVIEALGRPALVLAPNKILAAQL AAEFRELFPENAVEYFISYYDYYQPEAYVPGKDLYIEKDASINPEIERLRHSTTRSLLTRRDVIVVASVSAIY GLGDPREYRARNLVVERGKPYPREVLLERLLELGYQRNDIDLSPGRFRAKGEVLEIFPAYETEPIRVELFG DEVERISQVHPVTGERLRELPGFVLFPATHYLSPEGLEEILKEIEKELWERVRYFEERGEVLYAQRLKERTL YDLEMLRVMGTCPGVENYARYFTGKAPGEPPYTLLDYFPEDFLVFLDESHVTVPQLQGMYRGDYARK KTLVDYGFRLPSALDNRPLRFEEFLERVSQVVFVSATPGPFELAHSGRVVEQIIRPTGLLDPLVRVKPTE NQILDLMEGIRERAARGERTLVTVLTVRMAEELTSFLVEHGIRARYLHHELDAFKRQALIRDLRLGHYD CLVGINLLREGLDIPEVSLVAILDADKEGFLRSERSLIQTIGRAARNARGEVWLYADRVSEAMQRAIEET NRRRALQEAYNLEHGITPETVRKEVRAVIRPEGYEEAPLEADLSGEDLRERIAELELAMWQAAEALDFE RAARLRDEIRALEARLOGVRAPEPVPGGRKRKRR

### >DM train99

MRLFIAEKPSLARAIADVLPKPHRKGDGFIECGNGQVVTWCIGHLLEQAQPDAYDSRYARWNLADLP IVPEKWQLQPRPSVTKQLNVIKRFLHEASEIVHAGDPDREGQLLVDEVLDYLQLAPEKRQQVQRCLIN DLNPQAVERAIDRLRSNSEFVPLCVSALARARADWLYGINMTRAYTILGRNAGYQGVLSVGRVQTPV LGLVVRRDEEIENFVAKDFFEVKAHIVTPADERFTAIWQPSEACEPYQDEEGRLLHRPLAEHVVNRISG QPAIVTSYNDKRESESAPLPFSLSALQIEAAKRFGLSAQNVLDICQKLYETHKLITYPRSDCRYLPEEHFA GRHAVMNAISVHAPDLLPQPVVDPDIRNRCWDDKKVDAHHAIIPTARSSAINLTENEAKVYNLIARQ YLMQFCPDAVFRKCVIELDIAKGKFVAKARFLAEAGWRTLLGSKERDEENDGTPLPVVAKGDELLCEK GEVVERQTQPPRHFTDATLLSAMTGIARFVQDKDLKKILRATDGLGTEATRAGIIELLFKRGFLTKKGRYI HSTDAGKALFHSLPEMATRPDMTAHWESVLTQISEKQCRYQDFMQPLVGTLYQLIDQAKRTPVRQF RGIVAPGSGGSADKKKAAPRKRSAKKSPPADEVGSGAIA

>DM\_train103

MESKEHKGLSRRALFSATAGSAILAGTVGPAALSLGAAGLATPARAATGADGSVAPGKLDDYYGFWS SGQTGEMRILGIPSMRELMRVPVFNRCSATGWGQTNESIRIHQRTMTEKTKKQLAANGKKIHDNGD LHHVHMSFTDGKYDGRYLFMNDKANTRVARVRCDVMKTDAILEIPNAKGIHGMRPQKWPRSNYVF CNGEDEAPLVNDGSTMTDVATYVNIFTAVDADKWEVAWQVKVSGNLDNCDADYEGKWAFSTSY NSEMGMTLEEMTKSEMDHVVVFNIAEIEKAIKAGQYEEINGVKVVDGRKEAKSLFTRYIPIANNPHGC NMAPDRKHLCVAGKLSPTVTVLDVTKFDALFYDNAEPRSAVVAEPELGLGPLHTAFDGRGNAYTSLF LDSQVVKWNIDEAIRAYAGEKINPIKDKLDVQYQPGHLKTVMGETLDAANDWLVCLCKFSKDRFLNV GPLKPENDQLIDISGDKMVLVHDGPTFAEPHDAIAVSPSILPNIRSVWDRNDPLWAETRKQAEADEV DIDEWTEAVIRDGNKVRVYMTSVAPSFSQPSFTVKEGDEVTVIVTNLDEIDDLTHGFTMGNHGVAME VGPQQTSSVTFVAANPGVYWYYCQWFCHALHMEMRGRMFVEPKGA

>DM train109

TQDADRTLKRLQLQMDNLESRVALECKEAFAELQTDINELTNHMDGVQIPFLDYRTYAVRVLFPGIEA HPVLKELDTPPNVEKALRLFGQLLHSRAFLLTFIHTLEAQSSFSMRDRGTVASLTMVALQSRLDYATGL LKQLLADLIEKNLESKNHPKLLLRRTESVAEKMLTNWFTFLLHKFLKECAGEPLFLLYCAIKQQMEKGPI DAITGEARYSLSEDKLIRQQIDYKTLTLHCVCPESEGSAQVPVKVLNCDSITQAKDKLLDTVYKGIPYSQ RPKAEDMDLEWRQGRMARIILQDEDITTKIECDWKRVNSLAHYQVTDGSLVALVPKQVSAYNMANS FTFTRSLSRYESLLRAASSPDSLRSRAPMLTPDQEAGTKLWHLVRNHDHTDHREGDRGSKMVSEIYLT RLLATKGTLQKFVDDLFETVFSTAHRGSALPLAIKYMFDFLDEQADQRQISDPDVRHTWKSNCLPLRF WVNVIKNPQFVFDIHKNSITDACLSVVAQTFMDSCSTSEHRLGKDSPSNKLLYAKDIPNYKSWVERYY RDIAKMASISDQDMDAYLVEQSRLHANDFNVLSALSELYFYVTKYRQEILTSLDRDASCRKHKLRQKL EQIITLVSSSS

>DM train111

MEIPGSLCKKVKLSNNAONWGMORATNVTYOAHHVSRNKRGOVVGTRGGFRGCTVWLTGLSGA

GKTTVSMALEEYLVCHGIPCYTLDGDNIRQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFIS PYTQDRNNARQIHEGASLPFFEVFVDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVL KTDSCDVNDCVQQVVELLQERDIVPVDASYEVKELYVPENKLHLAKTDAETLPALKINKVDMQWVQ VLAEGWATPLNGFMREREYLQCLHFDCLLDGGVINLSVPIVLTATHEDKERLDGCTAFALMYEGRRV AILRNPEFFEHRKEERCARQWGTTCKNHPYIKMVMEQGDWLIGGDLQVLDRVYWNDGLDQYRLTP TELKQKFKDMNADAVSAFQLRNPVHNGHALLMQDTHKQLLERGYRRPVLLLHPLGGWTKDDDVPL MWRMKQHAAVLEEGVLNPETTVVAIFPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDPAGMP HPETGKDLYEPSHGAKVLTMAPGLITLEIVPFRVAAYNKKKKRMDYYDSEHHEDFEFISGTRMRKLARE GOKPPEGFMAPKAWTVLTEYYKSLEKA

# >DM\_train113

LEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRNYDLSFLKTIQEVAGYVLIAL NTVERIPLENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESI QWRDIVSSDFLSNMSMDFQNHLGSCQKCDPSCPNGSCWGAGEENCQKLTKIICAQQCSGRCRGK SPSDCCHNQCAAGCTGPRESDCLVCRKFRDEATCKDTCPPLMLYNPTTYQMDVNPEGKYSFGATC VKKCPRNYVVTDHGSCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDSLSINATNIKHF KNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAFENLEIIRGRTK QHGQFSLAVVSLNITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFGTSGQKTKIISNRGENSCKA TGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECVDKCNLLEGEPREFVENSECIQCHPECLPQAM NITCTGRGPDNCIQCAHYIDGPHCVKTCPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGCTGP GLEGCPTNGPKIPSI

# >DM\_train114

IQTTAPPVKESSFVEKMKKTGRNIIVFYGSQTGTAEEFANRLSKDAHRYGMRGMSADPEEYDLADLSS LPEIDKSLVVFCMATYGEGDPTDNAQDFYDWLQETDVDLTGVKFAVFGLGNKTYEHFNAMGKYVD QRLEQLGAQRIFELGLGDDDGNLEEDFITWREQFWPAVCEFFGVEATGEESSIRQYELVVHEDMDVA KVYTGEMGRLKSYENQKPPFDAKNPFLAAVTANRKLNQGTERHLMHLELDISDSKIRYESGDHVAVY PANDSALVNQIGEILGADLDVIMSLNNLDEESNKKHPFPCPTTYRTALTYYLDITNPPRTNVLYELAQY

ASEPSEQEHLHKMASSSGEGKELYLSWVVEARRHILAILQDYPSLRPPIDHLCELLPRLQARYYSIASSSK VHPNSVHICAVAVEYEAKSGRVNKGVATSWLRAKEPAGENGGRALVPMFVRKSQFRLPFKSTTPVIM VGPGTGIAPFMGFIQERAWLREQGKEVGETLLYYGCRRSDEDYLYREELARFHKDGALTQLNVAFSRE QAHKVYVQHLLKRDREHLWKLIHEGGAHIYVCGDARNMAKDVQNTFYDIVAEFGPMEHTQAVDYV KKLMTKGRYSLDV

# >DM\_train118

MSGWESYYKTEGDEEAEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQ SVYISKIISSDRDLLAVVFYGTEKDKNSVNFKNIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMG HGSDYSLSEVLWVCANLFSDVQFKMSHKRIMLFTNEDNPHGNDSAKASRARTKAGDLRDTGIFLDL MHLKKPGGFDISLFYRDIISIAEDEDLRVHFEESSKLEDLLRKVRAKETRKRALSRLKLKLNKDIVISVGIYN LVQKALKPPPIKLYRETNEPVKTKTRTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPGLML MGFKPLVLLKKHHYLRPSLFVYPEESLVIGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEEL DDQKIQVTPPGFQLVFLPFADDKRKMPFTEKIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFR NLEALALDLMEPEQAVDLTLPKVEAMNKRLGSLVDEFKELVYPPDYNPEGKVTKRKHDNEGSGSKRP KVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSGLKKQELLEALTKHFQD

# >DM\_train119

MSSYLDDLRIDLAASPASGGSASIAVGSFNIPYEVTRRLKGVGADADTTLTSCASWTQLQKLYEQYGD EPIKKHFETDSERGQRYSVKVSLGSKDENFLFLDYSKSHINDEIKCALLRLAEERGIRQFVQSVFRGERV NTTENRPVLHIALRNRSNRPIYVDGKDVMPAVNKVLDQMRSFSEKVRTGEWKGHTGKAIRHVVNIGI GGSDLGPVMATEALKPFSQRDLSLHFVSNVDGTHIAEVLKSIDIEATLFIVASKTFTTQETITNALSARRA LLDYLRSRGIDEKGSVAKHFVALSTNNQKVKEFGIDEENMFQFWDWVGGRYSMWSAIGLPIMISIGYE NFVELLTGAHVIDEHFANAPPEQNVPLLLALVGVWYINFFGAVTHAILPYDQYLWRLPAYLQQLDME SNGKYVTRSGKTVSTLTGPIIFGEAGTNGQHAFYQLIHQGTNLIPCDFIGAIQSQNKIGDHHKIFMSNF FAQTEALMIGKSPSEVRRELEAAGERSAEKINALLPHKTFIGGRPSNTLLIKSLTPRALGAIIAMYEHKVLV QGAIWGIDSYDQWGVELGKVLAKSILPQLRPGMRVNNHDSSTNGLINMFNELSHL

### >DM train134

MSSMTTTDNKAFLNELARLVGSSHLLTDPAKTARYRKGFRSGQGDALAVVFPGSLLELWRVLKACVT ADKIILMQAANTGLTEGSTPNGNDYDRDVVIISTLRLDKLHVLGKGEQVLAYPGTTLYSLEKALKPLGR EPHSVIGSSCIGASVIGGICNNSGGSLVQRGPAYTEMSLFARINEDGKLTLVNHLGIDLGETPEQILSKL DDDRIKDDDVRHDGRHAHDYDYVHRVRDIEADTPARYNADPDRLFESSGCAGKLAVFAVRLDTFEA EKNQQVFYIGTNQPEVLTEIRRHILANFENLPVAGEYMHRDIYDIAEKYGKDTFLMIDKLGTDKMPFFF NLKGRTDAMLEKVKFFRPHFTDRAMQKFGHLFPSHLPPRMKNWRDKYEHHLLLKMAGDGVGEAKS WLVDYFKQAEGDFFVCTPEEGSKAFLHRFAAAGAAIRYQAVHSDEVEDILALDIALRRNDTEWYEHLP PEIDSQLVHKLYYGHFMCYVFHQDYIVKKGVDVHALKEQMLELLQQRGAQYPAEHNVGHLYKAPET LOKFYRENDPTNSMNPGIGKTSKRKNWQEVE

# >DM train135

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWIRTGGYQPTLWDFSTIQSFDSEYKEEKHL MRAAGMIDQVKMMLQEEVDSIRRLELIDDLRRLGISCHFEREIVEILNSKYYTNNEIDERDLYSTALRFR LLRQYDFSVSQEVFDCFKNAKGTDFKPSLVDDTRGLLQLYEASFLSAQGEETLRLARDFATKFLQKRVL VDKDINLLSSIERALELPTHWRVQMPNARSFIDAYKRRPDMNPTVLELAKLDFNMVQAQFQQELKEA SRWWNSTGLVHELPFVRDRIVECYYWTTGVVERRQHGYERIMLTKINALVTTIDDVFDIYGTLEELQLF TTAIQRWDIESMKQLPPYMQICYLALFNFVNEMAYDTLRDKGFDSTPYLRKVWVGLIESYLIEAKWYY KGHKPSLEEYMKNSWISIGGIPILSHLFFRLTDSIEEEAAESMHKYHDIVRASCTILRLADDMGTSLDEVE RGDVPKSVQCYMNEKNASEEEAREHVRSLIDQTWKMMNKEMMTSSFSKYFVEVSANLARMAQWI YQHESDGFGMQHSLVNKMLRDLLFHRYE

# >DM\_train136

QEQVAPPKDPAAALEDHKTRTDNRYEPSLDNLAQQDVAAPGAPEGVSALSDAQYNEANKIYFERCA GCHGVLRKGATGKALTPDLTRDLGFDYLQSFITYGSPAGMPNWGTSGELSAEQVDLMANYLLLDPA APPEFGMKEMRESWKVHVAPEDRPTQQENDWDLENLFSVTLRDAGQIALIDGATYEIKSVLDTGYAV HISRLSASGRYLFVIGRDGKVNMIDLWMKEPTTVAEIKIGSEARSIETSKMEGWEDKYAIAGAYWPPQY VIMDGETLEPKKIQSTRGMTYDEQEYHPEPRVAAILASHYRPEFIVNVKETGKILLVDYTDLDNLKTTEIS AERFLHDGGLDGSHRYFITAANARNKLVVIDTKEGKLVAIEDTGGQTPHPGRGANFVHPTFGPVWAT SHMGDDSVALIGTDPEGHPDNAWKILDSFPALGGGSLFIKTHPNSQYLYVDATLNPEAEISGSVAVFD IKAMTGDGSDPEFKTLPIAEWAGITEGQPRVVQGEFNKDGTEVWFSVWNGKDQESALVVVDDKTLE LKHVIKDERLVTPTGKFNVYNTMTDTY

# >DM\_train139

GSGAVSIASSKVSAQYTSTVPPSHYIETWAKTHPEWKAVEVATGFLGSQKIVTEDWTYKKLNETANQV ANLIIHASLHGRAIAVSLDRSLIAFAIIVGIMKSGNTYVPIEAGLPNDRKSFLLRDSRAAMAFVCDNNFD GVELPPETKVLDTKNQSFIENLSTQDTSDILNNYPENLDAYLLYTSGSTGTPKGVRVSRHNLSSFSDAW GKLIGNVAPKSLELGGVGKFLCLASRAFDVHIGEMFLAWRFGLCAVTGERLSMLDDLPRTFRELGVTH AGIVPSLLDQTGLVPEDAPHLVYLGVGGEKMTPRTQQIWSSSDRVALVNVYGPTEVTIGCSAGRILPD SDTRCIGHPLGDSVAHVLAPGSNEHVKKGMAGELVIEGSLVANGYLNRPDAKGFCDINGRKMYRTG DIVRMDADSSILFLGRKDEQVKVRGQRLELGEVSEVIRSLSPTDIDVVTLLLNHPGTSKQFLVSFVASSG AAVRGELRWINENYKEINNSLRQACEQTLPAYMVPDFIIPISFIPLRDTSAKTDAKALEHMFHTLSLGEL FGESSSLVNKPTT

# >DM train150

MNKKQNFYAAIIVAIFLCLQLSHGSSGVSFEKTPAIKIVGNKFFDSESGEQFFIKGIAYQLQRSEEELSNA NGAFETSYIDALADPKICLRDIPFLKMLGVNTLRVYAIDPTKSHDICMEALSAEGMYVLLDLSEPDISINR ENPSWDVHIFERYKSVIDAMSSFPNLLGYFAGNQVTNDHTNTFASPFVKAAIRDAKEYISHSNHRKIP VGYSTNDDAMTRDNLARYFVCGDVKADFYGINMYEWCGYSTYGTSGYRERTKEFEGYPIPVFFSEFG CNLVRPRPFTEVSALYGNKMSSVWSGGLAYMYFEEENEYGVVKINDNDGVDILPDFKNLKKEFAKAD PKGITEEEYLTAKEPTEVESVECPHIAVGVWEANEKLPETPDRSKCACLDEILPCEIVPFGAESGKYEEYFS YLCSKVDCSDILANGKTGEYGEFSDCSVEQKLSLOLSKLYCKIGANDRHCPLNDKNVYFNLESLOPLTS

### >DM\_train156

MSGGDGRGHNTGAHSTSGNINGGPTGLGVGGGASDGSGWSSENNPWGGGSGSGIHWGGGSGH GNGGGNGNSGGGSGTGGNLSAVAAPVAFGFPALSTPGAGGLAVSISAGALSAAIADIMAALKGPFK FGLWGVALYGVLPSQIAKDDPNMMSKIVTSLPADDITESPVSSLPLDKATVNVNVRVVDDVKDERQ NISVVSGVPMSVPVVDAKPTERPGVFTASIPGAPVLNISVNNSTPAVQTLSPGVTNNTDKDVRPAFGT QGGNTRDAVIRFPKDSGHNAVYVSVSDVLSPDQVKQRQDEENRRQQEWDATHPVEAAERNYERA RAELNQANEDVARNQERQAKAVQVYNSRKSELDAANKTLADAIAEIKQFNRFAHDPMAGGHRMW QMAGLKAQRAQTDVNNKQAAFDAAAKEKSDADAALSSAMESRKKKEDKKRSAENNLNDEKNKPR KGFKDYGHDYHPAPKTENIKGLGDLKPGIPKTPKQNGGGKRKRWTGDKGRKIYEWDSQHGELEGYR ASDGQHLGSFDPKTGNQLKGPDPKRNIKKYL

# >DM train157

DISTVPDETYDALKLDRGKATPKETYEALVKRYKDPAHGAGKGTMGDYWEPIAISIYMDPNTFYKPPV SPKEVAERKDCVECHSDETPVWVRAWKRSTHANLDKIRNLKSDDPLYYKKGKLEEVENNLRSMGKLG EKETLKEVGCIDCHVDVNKKDKADHTKDIRMPTADTCGTCHLREFAERESERDTMVWPNGQWPAG RPSHALDYTANIETTVWATMPQREVAEGCTMCHTNQNKCDNCHTRHEFSAAESRKPEACATCHSG VDHNNWEAYTMSKHGKLAEMNRDKWNWEVRLKDAFSKGGQNAPTCAACHMEYEGEYTHNITRK TRWANYPFVPGIAENITSDWSEARLDSWVLTCTQCHSERFARSYLDLMDKGTLEGLAKYQEANAIVH KMYEDGTLTGQKTNRPNPPEPEKPGFGIFTQLFWSKGNNPASLELKVLEMGENNLAKMHVGLAHVN PGGWTYTEGWGPMNRAYVEIQDEYTKMQELSALQARVNKLEGKQTSLLDLKGTGEKISLGGLGGG MLLAGALALIGWRKRKOTRA

### >DM train162

MRNGRTLLRWAGVLAATAIIGVGGFWSQGTTKALPEGPGEKRADLIEIGAMERFGKLDLPKVAFRHD QHTTAVTGMGKDCAACHKSKDGKMSLKFMRLDDNSAAELKEIYHANCIGCHTDLAKAGKKTGPQD GECRSCHNPKPSAASSWKEIGFDKSLHYRHVASKAIKPVGDPQKNCGACHHVYDEASKKLVWGKNK EDSCRACHGEKPVDKRPALDTAAHTACISCHMDVAKTKAETGPVNCAGCHAPEAQAKFKVVREVPR LDRGQPDAALILPVPGKDAPREMKGTMKPVAFDHKAHEAKANDCRTCHHVRIDTCTACHTVNGTA DSKFVQLEKAMHQPDSMRSCVGCHNTRVQQPTCAGCHGFIKPTKSDAQCGVCHVAAPGFDAKQV EAGALLNLKAEQRSQVAASMLSARPQPKGTFDLNDIPEKVVIGSIAKEYQPSEFPHRKIVKTLIAGIGED KLAATFHIEKGTLCQGCHHNSPASLTPPKCASCHGKPFDADRGDRPGLKAAYHQQCMGCHDRMKI EKPANTACVDCHKERAK

# >DM\_train167

MNTLPEHSCDVLIIGSGAAGLSLALRLADOHOVIVLSKGPVTEGSTFYAOGGIAAVFDETDSIDSHVED TLIAGAGICDRHAVEFVASNARSCVOWLIDOGVLFDTHIOPNGEESYHLTREGGHSHRRILHAADAT GREVETTLVSKALNHPNIRVLERTNAVDLIVSDKIGLPGTRRVVGAWVWNRNKETVETCHAKAVVLA TGGASKVYQYTTNPDISSGDGIAMAWRAGCRVANLEFNQFHPTALYHPQARNFLLTEALRGEGAYL KRPDGTRFMPDFDERGELAPRDIVARAIDHEMKRLGADCMFLDISHKPADFIRQHFPMIYEKLLGLGID LTOEPVPIVPAAHYTCGGVMVDDHGRTDVEGLYAIGEVSYTGLHGANRMASNSLLECLVYGWSAAE DITRRMPYAHDISTLPPWDESRVENPDERVVIQHNWHELRLFMWDYVGIVRTTKRLERALRRITMLQ OEIDEYYAHFRVSNNLLELRNLVOVAELIVRCAMMRKESRGLHFTLDYPELLTHSGPSILSPGNHYINR 00000001111111

# >DM train173

GSHMKNLLRAINPLNRPQTERLDERQVRNNAGGFVYTVSDESRLTRFLVLGVDGGTFYASAQKHTV QATDFVRELVQRDAALALRVTLDVVRGQRAPKADPALLVLALIAKTAPNAADRKAAWDALPEVART GTMLLHFLAFADALGGWGRLTRRGVANVYETADVDKLALWAVKYKARDGWSQADALRKAHPKTD DAARNAVLKFMVDGVLPKVDSPALRVIEGHLKATEAQTDAAAAALMQEYRLPLEAVPTHVRGAEVY RAAMQTNGLTWLLRNLGNLGRVGVLTPNDSATVQAVIERLTDPAALKRGRIHPLDALKARLVYAQG QGVRGKGTWLPVPRVVDALEEAFTLAFGNVQPANTRHLLALDVSGSMTCGDVAGVPGLTPNMAA AAMSLIALRTEPDALTMGFAEOFRPLGITPRDTLESAMOKAQSVSFGGTDCAQPILWAAQERLDVDT

FVVYTDNETWAGQVHPTVALDQYAQKMGRAPKLIVVGLTATEFSIADPQRRDMLDVVGFDAAAPN VMTAFARGEVL

# >DM train176

MTEDNIAPITSVKVVTDKCTYKDNELLTKYSYENAVVTKTASGRFDVTPTVQDYVFKLDLKKPEKLGIM LIGLGGNNGSTLVASVLANKHNVEFQTKEGVKQPNYFGSMTQCSTLKLGIDAEGNDVYAPFNSLLP MVSPNDFVVSGWDINNADLYEAMQRSQVLEYDLQQRLKAKMSLVKPLPSIYYPDFIAANQDERAN NCINLDEKGNVTTRGKWTHLQRIRRDIQNFKEENALDKVIVLWTANTERYVEVSPGVNDTMENLLQS IKNDHEEIAPSTIFAAASILEGVPYINGSPQNTFVPGLVQLAEHEGTFIAGDDLKSGQTKLKSVLAQFLV DAGIKPVSIASYNHLGNNDGYNLSAPKQFRSKEISKSSVIDDIIASNDILYNDKLGKKVDHCIVIKYMKP VGDSKVAMDEYYSELMLGGHNRISIHNVCEDSLLATPLIIDLLVMTEFCTRVSYKKVDPVKEDAGKFEN FYPVLTFLSYWLKAPLTRPGFHPVNGLNKQRTALENFLRLLIGLPSQNELRFEERLL

# >DM train178

KHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKAAVMVHQLSKKEASRHAIMRSPQMVSAI VRTMQNTNDVETARCTAGTLHNLSHHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLLLHQ EGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRTYTYE KLLWTTSRVLKVLSVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAATKQEGMEG LLGTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDREDITEPAICAL RHLTSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGAIPR LVQLLVRAHQDTQRRTSMGGTQQQFVEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLL YSPIENIQRVAAGVLCELAQDKEAAEAIEAEGATAPLTELLHSRNEGVATYAAAVLFRMSE 0000000

# >DM\_train180

SKSHSEAGSAFIQTQQLHAAMADTFLEHMCRLDIDSAPITARNTGIICTIGPASRSVETLKEMIKSGMN VARMNFSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATL KITLDNAYMEKCDENILWLDYKNICKVVDVGSKVYVDDGLISLQVKQKGPDFLVTEVENGGFLGSKKG VNLPGAAVDLPAVSEKDIQDLKFGVEQDVDMVFASFIRKAADVHEVRKILGEKGKNIKIISKIENHEGV RRFDEILEASDGIMVARGDLGIEIPAEKVFLAQKMIIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSD VANAVLDGADCIMLSGETAKGDYPLEAVRMQHLIAREAEAAMFHRKLFEELARSSSHSTDLMEAMA MGSVEASYKCLAAALIVLTESGRSAHQVARYRPRAPIIAVTRNHQTARQAHLYRGIFPVVCKDPVQEA WAEDVDLRVNLAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVP

# >DM\_train182

GMFPLTEENKHVAQLLLNTGTCPRCIFRFCGVDFHAPYKLPYKELLNELQKFLETEKDELILEVMNPPPK KIRLQELEDSIDNLSQNGEGRISVSHVGSTASKNSNLNVCNVCLGILQEFCEKDFIKKVCQKVEASGFEF TSLVFSVSFPPQLSVREHAAWLLVKQEMGKQSLSLGRDDIVQLKEAYKWITHPLFSEELGVPIDGKSLF EVSVVFAHPETVEDCHFLAAICPDCFKPAKNKQSVFTRMAVMKALNKIKEEDFLKQFPCPPNSPKAVC AVLEIECAHGAVFVAGRYNKYSRNLPQTPWIIDGERKLESSVEELISDHLLAVFKAESFNFSSSGREDVD VRTLGNGRPFAIELVNPHRVHFTSQEIKELQQKINNSSNKIQVRDLQLVTREAIGHMKEGEEEKTKTYS ALIWTNKAIQKKDIEFLNDIKDLKIDQKTPLRVLHRRPLAVRARVIHFMETQYVDEHHFRLHLKTQAGT YIKEFVHGDFGRTKPNIGSLMNVTADILELDVESVDVDWPPALDD

# >DM\_train186

DQAGKSPNAVRYHGGDEIILQGFHWNVVREAPNDWYNILRQQAATIAADGFSAIWMPVPWRDFSS WSDGSKSGGGEGYFWHDFNKNGRYGSDAQLRQAASALGGAGVKVLYDVVPNHMNRGYPDKEIN LPAGQGFWRNDCADPGNYPNDCDDGDRFIGGDADLNTGHPQVYGMFRDEFTNLRSQYGAGGFR FDFVRGYAPERVNSWMTDSADNSFCVGELWKGPSEYPNWDWRNTASWQQIIKDWSDRAKCPVF DFALKERMQNGSIADWKHGLNGNPDPRWREVAVTFVDNHDTGYSPGQNGGQHHWALQDGLIR QAYAYILTSPGTPVVYWDHMYDWGYGDFIRQLIQVRRAAGVRADSAISFHSGYSGLVATVSGSQQT LVVALNSDLGNPGQVASGSFSEAVNASNGQVRVWRSGTGSGGGEPGALVSVSFRCDNGATQMGD SVYAVGNVSQLGNWSPAAALRLTDTSGYPTWKGSIALPAGQNEEWKCLIRNEANATQVRQWQGG ANNSLTPSEGATTVGRL

### >DM train203

DRIDVLKGEKALKASGLVPEHADAFKKIARELNTYILFRPVNKLATNLIKSGVATKGLNVHGKSSDWGP VAGYIPFDQDLSKKHGQQLAVEKGNLENKKSITEHEGEIGKIPLKLDHLRIEELKENGIILKGKKEIDNGK KYYLLESNNQVYEFRISDENNEVQYKTKEGKITVLGEKFNWRNIEVMAKNVEGVLKPLTADYDLFALA PSLTEIKKQIPQKEWDKVVNTPNSLEKQKGVTNLLIKYGIERKPDSTKGTLSNWQKQMLDRLNEAVKY TGYTGGDVVNHGTEQDNEEFPEKDNEIFIINPEGEFILTKNWEMTGRFIEKNITGKDYLYYFNRSYNKIA PGNKAYIEWTDPITKAKINTIPTSAEFIKNLSSIRRSSNVGVYKDSGDKDEFAKKESVKKIAGYLSDYYNS ANHIFSQEKKRKISIFRGIQAYNEIENVLKSKQIAPEYKNYFQYLKERITNQVQLLLTHQKSNIEFKLLYKQ LNFTENETDNFEVFOKIIDEK

# >DM\_train205

ISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNNQEFECAGVALSRLVLRRNALRRPFYSN APQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGRRYQSQRPPRRLQEEDQSQQQQDSHQKVHRFNEG DLIAVPTGVAFWLYNDHDTDVVAVSLTDTNNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRQSR RRSLPYSPYSPQSQPRQEEREFSPRGQHSRRERAGQEEEHEGGNIFSGFTPEFLAQAFQVDDRQIVQ NLRGENESEEQGAIVTVRGGLRILSPDRKRGADEEEYDEDEYEYDEEDRRRGRGSRGSGNGIEETICT ATVKKNIGRNRSPDIYNPQAGSLKTANELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYALRG RAHVQVVDSNGNRVYDEELQEGHVLVVPQNFAVAGKSQSDNFEYVAFKTDSRPSIANLAGENSVID NLPEEVVANSYGLPREOAROLKNNNPFKFFVPPSQOSPRAVA

### >DM\_train209

MSLWLPSEATVYLPPVPVSKVVSTDEYVARTNIYYHAGTSRLLAVGHPYFPIKKPNNNKILVPKVSGLQ YRVFRIHLPDPNKFGFPDTSFYNPDTQRLVWACVGVEVGRGQPLGVGISGHPLLNKLDDTENASAYA ANAGVDNRECISMDYKQTQLCLIGCKPPIGEHWGKGSPCTQVAVQPGDCPPLELINTVIQDGDMVD TGFGAMDFTTLQANKSEVPLDICTSICKYPDYIKMVSEPYGDSLFFYLRREQMFVRHLFNRAGTVGEN VPDDLYIKGSGSTANLASSNYFPTPSGSMVTSDAQIFNKPYWLQRAQGHNNGICWGNQLFVTVVD TTRSTNMSLCAAISTSETTYKNTNFKEYLRHGEEYDLQFIFQLCKITLTADVMTYIHSMNSTILEDWNFG LQPPPGGTLEDTYRFVTSQAIACQKHTPPAPKEDPLKKYTFWEVNLKEKFSADLDQFPLGRKFLLQLGL KAKPKFTLGKRKATPTTSSTSTTAKRKKRKL

### >DM\_train213

ASLPISNFFTFNHQSTLFTKVKNFMGVKHIGDCMKALINGTIYTSFSPVKKVSGLVISNERVLYAGDSST ALRIAELAGGEIIDLKGKFVMPAFFDSHLHLDELGMSLEMVDLRGVKSMEELVERVKKGRGRIIFGFGW DQDELGRWPTREDLDVIDRPVFLYRRCFHVAVMNSKMIDLLNLKPSKDFDESTGIVRERALEESRKIIN EKILTVKDYKHYIESAQEHLLSLGVHSVGFMSVGEKALKALFELEREGRLKMNVFAYLSPELLDKLEELNL GKFEGRRLRIWGVKLFVDGSLGARTALLSEPYTDNPTTSGELVMNKDEIVEVIERAKPLGLDVAVHAIG DKAVDVALDAFEEAEFSGRIEHASLVRDDQLERIKELKVRISAQPHFIVSDWWIVNRVGEERAKWAYR LKTLSSITKLGFSTDSPIEPADPWVSIDAAVNRYVVDPGERVSREEALHLYTHGSAQVTLAEDLGKLERG FRAEYIILDRDPLKE

### >DM\_train219

MVEMTRIKHVAFLNPQGNFDPADSYWTEHPDFGGQLVYVKEVSLALAEMGVQVDIITRRIKDENWP EFSGEIDYYQETNKVRIVRIPFGGDKFLPKEELWPYLHEYVNKIINFYREEGKFPQVVTTHYGDGGLAGV LLKNIKGLPFTFTGHSLGAQKMEKLNVNTSNFKEMDERFKFHRRIIAERLTMSYADKIIVSTSQERFGQY SHDLYRGAVNVEDDDKFSVIPPGVNTRVFDGEYGDKIKAKITKYLERDLGSERMELPAIIASSRLDQKK NHYGLVEAYVQNKELQDKANLVLTLRGIENPFEDYSRAGQEEKEILGKIIELIDNNDCRGKVSMFPLNS QQELAGCYAYLASKGSVFALTSFYEPFGLAPVEAMASGLPAVVTRNGGPAEILDGGKYGVLVDPEDPE DIARGLLKAFESEETWSAYQEKGKQRVEERYTWQETARGYLEVIQEIADRKDEEDEGGSLNIPDYFTNP GASNDEKLLDTFNKLWKE

# >DM\_train230

MDAEEKMGVELSSPSAIMEHARRLYMSKDYRSLESLFGRCLWKSYNLDLWMLYIEYVRKVSQKKFKLF EVYEFTLGQFENYWDSYGLFKEYIEELGKIEDEQTRIEKIRNGYMRALQTPMGSLSELWKDFENFELELN KITGKKIVGDTLPLFQSSFQRYQQIQPLIRGWSVKNAARLIDLEMENGMKLGGRPHESRMHFIHNYIL DSFFYAEEVYFFYSEYLIGIGQKEKAKKVVERGIEMSDGMFLSLYYGLVMDEEAVYGDLKRKYSMGEAE SAEKVFSKELDLLRINHLNYVLKKRGLELFRKLFIELGNEGVGPHVFIYCAFIEYYATGSRATPYNIFSSGLL KHPDSTLLKEEFFLFLLRIGDEENARALFKRLEKTSRMWDSMIEYEFMVGSMELFRELVDQKMDAIKAD AILPPLPPREHNVQMEGILGRYHCFLDSFNFLDLKIRDNSRLLDEFMENLPKISQQNNVLSNLRVEKVIS LLKSVO

### >DM train232

DTMQPIERKRQGYIHELIQTEERYMADLQLVVEVFQKRMAESGFLTEGEMALIFVNWKELIMSNTKLL KALRVRKKTGGEKMPVQMIGDILAAELSHMQAYIRFCSCQLNGAALLQQKTDEDTDFKEFLKKLASD PRCKGMPLSSFLLKPMQRITRYPLLIRSILENTPESHADHSSLKLALERAEELCSQVNEGVREKENSDRLE WIQAHVQCEGLAEQLIFNSLTNCLGPRKLLHSGKLYKTKSNKELHGFLFNDFLLLTYMVKQFAVSSGSE KLFSSKSNAQFKMYKTPIFLNEVLVKLPTDPSSDEPVFHISHIDRVYTLRTDNINERTAWVQKIKAASEQ YIDTEKKQREKAYQARSQKTSGIGRLMVHVIEATELKACKPNGKSNPYCEISMGSQSYTTRTIQDTLNP KWNFNCQFFIKDLYQDVLCLTLFDRDQFSPDDFLGRTEIPVAKIRTEQESKGPMTRRLLLHEVPTGEV WVRFDLQLFE

### >DM train245

>DM\_train248

MAGVEEVAASGSHLNGDLDPDDREEGAASTAEEAAKKKRRKKKKSKGPSAAGEQEPDKESGASVDE VARQLERSALEDKERDEDDEDGDGDGDGATGKKKKKKKKKKRGPKVQTDPPSVPICDLYPNGVFPKG QECEYPPTQDGRTAAWRTTSEEKKALDQASEEIWNDFREAAEAHRQVRKYVMSWIKPGMTMIEICE KLEDCSRKLIKENGLNAGLAFPTGCSLNNCAAHYTPNAGDTTVLQYDDICKIDFGTHISGRIIDCAFTVT FNPKYDTLLKAVKDATNTGIKCAGIDVRLCDVGEAIQEVMESYEVEIDGKTYQVKPIRNLNGHSIGQYR IHAGKTVPIIKGGEATRMEEGEVYAIETFGSTGKGVVHDDMECSHYMKNFDVGHVPIRLPRTKHLLNVI NENFGTLAFCRRWLDRLGESKYLMALKNLCDLGIVDPYPPLCDIKGSYTAQFEHTILLRPTCKEVVSRG DDY

### >DM train255

MPTPHTTESPSVDRRTFLAGLSGAVAGGAVASQFQTTARAQATASPAANAIAYIVDGMGQTQISAA RYLNAYKTAPERFPLNVSPAETPTGFDAFSSRGSMTTFPDDPYETTTDSAAAATAFASGVKTYNGAIG GVQTSGGGFQRVDTVLERASAQGYATGLITTTEATHATPAAFAAHVEDRGNQTEIARQYIEETQPDVI LGGQRRDFEADASNGGTLVDAARDNGYTIAETAAELDAVDDPPVLGLFSQESHLDYYLDRKNDPEN TQPNLDAMVDAGVDLLSSAGDPDKGFFLLVESGRVDHAGHANYPAQVAEQYEATQVAGQLVEYA ETTAEPTFLVSTGDHECGGLTLGRDSPYEVEYDVLAAQKATTSRLRDLLAGVRSADELESIVAAHTGITA LTDREVAKLRDAPGSISTILAERAGIAFTTDGHTGTDVPVFAHGPNAARFDAARDNTAVADALAAAL GVSI

### >DM\_train262

# >DM train263

### >DM train269

MKKFRKHKRISNCISILLILYLTLGGLLPNNIYAQDLQSYSEKVCNTTYKAPIERPEDFLKDKEKAKEWER KEAERIEQKLERSEKEALESYKKDSVEISKYSQTRNYFYDYQIEANSREKEYKELRNAISKNKIDKPMYVY YFESPEKFAFNKVIRTENQNEISLEKFNEFKETIQNKLFKQDGFKDISLYEPGKGDEKPTPLLMHLKLPRN TGMLPYTNTNNVSTLIEQGYSIKIDKIVRIVIDGKHYIKAEASVVSSLDFKDDVSKGDSWGKANYNDWS NKLTPNELADVNDYMRGGYTAINNYLISNGPVNNPNPELDSKITNIENALKREPIPTNLTVYRRSGPQ EFGLTLTSPEYDFNKLENIDAFKSKWEGQALSYPNFISTSIGSVNMSAFAKRKIVLRITIPKGSPGAYLSAI PGYAGEYEVLLNHGSKFKINKIDSYKDGTITKLIVDATLIP

# >DM train272

GEIQWMRPSKEVGYPIINAPSKTKLEPSAFHYVFEGVKEPAVLTKNDPRLKTDFEEAIFSKYVGNKITEV DEYMKEAVDHYAGQLMSLDINTEQMCLEDAMYGTDGLEALDLSTSAGYPYVAMGKKKRDILNKQT RDTKEMQKLLDTYGINLPLVTYVKDELRSKTKVEQGKSRLIEASSLNDSVAMRMAFGNLYAAFHKNPG VITGSAVGCDPDLFWSKIPVLMEEKLFAFDYTGYDASLSPAWFEALKMVLEKIGFGDRVDYIDYLNHS HHLYKNKTYCVKGGMPSGCSGTSIFNSMINNLIIRTLLLKTYKGIDLDHLKMIAYGDDVIASYPHEVDA SLLAQSGKDYGLTMTPADKSATFETVTWENVTFLKRFFRADEKYPFLIHPVMPMKEIHESIRWTKDPR NTQDHVRSLCLLAWHNGEEEYNKFLAKIRSVPIGRALLLPEYSTLYRRWLDSF

# >DM\_train273

### >DM train277

# >DM\_train278

MKAANASSAEAYRVLSRAFRFDNEDQKLWWHSTAPMFAKMLETANYTTPCQYQYLITYKECVIPSL GCYPTNSAPRWLSILTRYGTPFELSLNCSNSIVRYTFEPINQHTGTDKDPFNTHAIWESLQHLLPLEKSI DLEWFRHFKHDLTLNSEESAFLAHNDRLVGGTIRTQNKLALDLKDGRFALKTYIYPALKAVVTGKTIHE LVFGSVRRLAVREPRILPPLNMLEEYIRSRGSKSTASPRLVSCDLTSPAKSRIKIYLLEQMVSLEAMEDLW TLGGRRRDASTLEGLSLVRELWDLIQLSPGLKSYPAPYLPLGVIPDERLPLMANFTLHQNDPVPEPQVY FTTFGMNDMAVADALTTFFERRGWSEMARTYETTLKSYYPHADHDKLNYLHAYISFSYRDRTPYLSVY

# LQSFETGDWAVANLSESKVKCQDAACQPTALPPDLSKTGVYYSGLH

### >DM train281

MEGNTILKIVLICTILAGLFGQVVPVYAENTTYQTPTGIYYEVRGDTIYMINVTSGEETPIHLFGVNWFGF ETPNHVVHGLWKRNWEDMLLQIKSLGFNAIRLPFCTESVKPGTQPIGIDYSKNPDLRGLDSLQIMEKII KKAGDLGIFVLLDYHRIGCTHIEPLWYTEDFSEEDFINTWIEVAKRFGKYWNVIGADLKNEPHSVTSPPA AYTDGTGATWGMGNPATDWNLAAERIGKAILKVAPHWLIFVEGTQFTNPKTDSSYKWGYNAWWG GNLMAVKDYPVNLPKNKLVYSPHVYGPDVYNQPYFGPAKGFPDNLPDIWYHHFGYVKLELGYSVVI GEFGGKYGHGGDPRDVIWQNKLVDWMIENKFCDFFYWSWNPDSGDTGGILQDDWTTIWEDKYN NLKRLMDSCSKSSSSTOSVIRSTTPTKSNTSKKICGPAILIILAVFSLLLRRAPR

# >DM\_train285

# >DM\_train288

MFINPRNVSNTFLQEPLRHSSNLTEMPVEAENVKSKTEYYNAWSEWERNAPPGNGEQREMAVSRLR DCLDRQAHELELNNLGLSSLPELPPHLESLVASCNSLTELPELPQSLKSLLVDNNNLKALSDLPPLLEYL GVSNNQLEKLPELQNSSFLKIIDVDNNSLKKLPDLPPSLEFIAAGNNQLEELPELQNLPFLTAIYADNNS LKKLPDLPLSLESIVAGNNILEELPELQNLPFLTTIYADNNLLKTLPDLPPSLEALNVRDNYLTDLPELPQS LTFLDVSENIFSGLSELPPNLYYLNASSNEIRSLCDLPPSLEELNVSNNKLIELPALPPRLERLIASFNHLAE

VPELPQNLKQLHVEYNPLREFPDIPESVEDLRMNSHLAEVPELPQNLKQLHVETNPLREFPDIPESVED LRMNSERVVDPYEFAHETTDKLEDDVFEHHHHHH

# >DM\_train292

MDITVREHDFKHGFIKSNSTFDGLNIDNSKNKKKIQKGFQILYVLLFCSVMCGLFYYVYENVWLQRDN EMNEILKNSEHLTIGFKVENAHDRILKTIKTHKLKNYIKESVNFLNSGLTKTNYLGSSNDNIELVDFQNI MFYGDAEVGDNQQPFTFILDTGSANLWVPSVKCTTAGCLTKHLYDSSKSRTYEKDGTKVEMNYVSG TVSGFFSKDLVTVGNLSLPYKFIEVIDTNGFEPTYTASTFDGILGLGWKDLSIGSVDPIVVELKNQNKIEN ALFTFYLPVHDKHTGFLTIGGIEERFYEGPLTYEKLNHDLYWQITLDAHVGNIMLEKANCIVDSGTSAIT VPTDFLNKMLQNLDVIKVPFLPFYVTLCNNSKLPTFEFTSENGKYTLEPEYYLQHIEDVGPGLCMLNIIG LDFPVPTFILGDPFMRKYFTVFDYDNHSVGIALAKKNL

# >DM\_train299

MHHHHHHSSGLVPRGSGMKETAAAKFERQHMDSPDLGTDDDDKMKLQSPEFQSLFTEGLKSLTELF VKENHELRIAGGAVRDLLNGVKPQDIDFATTATPTQMKEMFQSAGIRMINNRGEKHGTITARLHEEN FEITTLRIDVTTDGRHAEVEFTTDWQKDAERRDLTINSMFLGFDGTLFDYFNGYEDLKNKKVRFVGHA KQRIQEDYLRILRYFRFYGRIVDKPGDHDPETLEAIAENAKGLAGISGERIWVELKKILVGNHVNHLIHLI YDLDVAPYIGLPANASLEEFDKVSKNVDGFSPKPVTLLASLFKVQDDVTKLDLRLKIAKEEKNLGLFIVK NRKDLIKATDSSDPLKPYQDFIIDSREPDATTRVCELLKYQGEHCLLKEMQQWSIPPFPVSGHDIRKVGI SSGKEIGALLQQLREQWKKSGYQMEKDELLSYIKKT

# >DM\_train307

AKLVCYFTNWAQYRQGEARFLPKDLDPSLCTHLIYAFAGMTNHQLSTTEWNDETLYQEFNGLKKMN PKLKTLLAIGGWNFGTQKFTDMVATANNRQTFVNSAIRFLRKYSFDGLDLDWEYPGSQGSPAVDKER FTTLVQDLANAFQQEAQTSGKERLLLSAAVPAGQTYVDAGYEVDKIAQNLDFVNLMAYDFHGSWE KVTGHNSPLYKRQEESGAAASLNVDAAVQQWLQKGTPASKLILGMPTYGRSFTLASSSDTRVGAPAT GSGTPGPFTKEGGMLAYYEVCSWKGATKQRIQDQKVPYIFRDNQWVGFDDVESFKTKVSYLKQKGL

GGAMVWALDLDDFAGFSCNQGRYPLIQTLRQELSLPYLPSGTPELEVPKPGQPSEPEHGPSPGQDTF CQGKADGLYPNPRERSSFYSCAAGRLFQOSCPTGLVFSNSCKCCTWN

>DM train308

MGLTGLEIYKHLPKKNCKECGQPTCLAFAMQIAAGKAGLDACPYVSDEAKELLESASAPPVALIKVGK GEKVLEIGHETVLFRHDKRFEHPCGLAILVEDTLSEGEIKERVEKINKLVFDRVGQMHSVNLVALKGSSQ DAATFAKAVATAREVTDLPFILIGTPEQLAAALETEGANNPLLYAATADNYEQMVELAKKYNVPLTVS AKGLDALAELVQKITALGYKNLILDPQPENISEGLFYQTQIRRLAIKKLFRPFGYPTIAFALDENPYQAVM EASVYIAKYAGIIVLNTVEPADILPLITLRLNIYTDPQKPIAVEPKVYEILNPGPDAPVFITTNFSLTYFCVA GDVEGARIPAYILPVDTDGTSVLTAWAAGKFTPEKIAQFLKESGIAEKVNHRKAILPGGVAVLSGKLQEL SGWEILVGPRESSGINSFIKQRWNV

MNKKRMIAMVSTALLVTGCAEVGNAQTVAVENSGQSVQKNIVKSIQSQANPLKTIEPSKPFEDLKPL KKMIGNAQYVGLGENTHGSSEIFTMKFRLVKYLVTEMGFTNFAMEEDWGNGLKLNEYIQTGKGNPR EFLKLLYPTDEIIAMIEWMKDYNADPSNKKKIQFIGLDLKALDQGSFNKVIDYVRLHRPDLLAEVEENYK ELSSFTGSIQEYMKLTPKLKEKFKANAERVARLLKDENEQANTEIIPSEYIWAKATASAIEKFTTMLLPND YPSIIKLHEQYLADHAMWAQETFGGKTMVWAHNIHIAKGIIDEKLYPYVAGQFLKERLDNNYVTIGST TTEGNFTLYSEYNPSTGGKITTDTIPQDVKSFNYTLGKVPYKMFLLDNRHLKGQAEKWVKAKRPLLSIG GOILPNSSVYFDTSLLEOFDIIFHIRKTSPSHIK

EREALPPQKIEVLVLLPQDDSYLFSLTRVRPAIEYALRSVEGNGTGRRLLPPGTRFQVAYEDSDCGNRA LFSLVDRVAAARGAKPDLILGPVCEYAAAPVARLASHWDLPMLSAGALAAGFQHKDSEYSHLTRVAP AYAKMGEMMLALFRHHHWSRAALVYSDDKLERNCYFTLEGVHEVFQEEGLHTSIYSFDETKDLDLED IVRNIQASERVVIMCASSDTIRSIMLVAHRHGMTSGDYAFFNIELFNSSSYGDGSWKRGDKHDFEAKQ AYSSLQTVTLLRTVKPEFEKFSMEVKSSVEKQGLNMEDYVNMFVEGFHDAILLYVLALHEVLRAGYSKK DGGKIIQQTWNRTFEGIAGQVSIDANGDRYGDFSVIAMTDVEAGTQEVIGDYFGKEGRFEMRPNVKY PWGPLKLRIDENRIVEHTNSSPCKSCGLEESAVT

### >DM train318

PISPIETVPVKLKPGMDGPKVKQWPLTEEKIKALVEICTEMEKEGKISKIGPENPYNTPVFAIKKKDSTKW RKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDEDFRKYTAFTIPSINNETP GIRYQYNVLPQGWKGSPAIFQSSMTKILEPFRKQNPDIVIYQYMDDLYVGSDLEIGQHRTKIEELRQHL LRWGLTTPDKKHQKEPPFLWMGYELHPDKWTVQPIVLPEKDSWTVNDIQKLVGKLNWASQIYPGIK VRQLCKLLRGTKALTEVIPLTEEAELELAENREILKEPVHGVYYDPSKDLIAEIQKQGQGQWTYQIYQEP FKNLKTGKYARMRGAHTNDVKQLTEAVQKITTESIVIWGKTPKFKLPIQKETWETWWTEYWQATWIP EWEFVNTPPLVKLWYQLEKEPIVGAETF

# >DM train321

MMKQALRVAFGFLILWASVLHAEVRIVIDSGVDSGRPIGVVPFQWAGPGAAPEDIGGIVAADLRNSG KFNPLDRARLPQQPGSAQEVQPAAWSALGIDAVVVGQVTPNPDGSYNVAYQLVDTGGAPGTVLA QNSYKVNKQWLRYAGHTASDEVFEKLTGIKGAFRTRIAYVVQTNGGQFPYELRVSDYDGYNQFVVH RSPQPLMSPAWSPDGSKLAYVTFESGRSALVIQTLANGAVRQVASFPRHNGAPAFSPDGSKLAFALS KTGSLNLYVMDLASGQIRQVTDGRSNNTEPTWFPDSQNLAFTSDQAGRPQVYKVNINGGAPQRIT WEGSQNQDADVSSDGKFMVMVSSNGGQQHIAKQDLATGGVQVLSSTFLDETPSLAPNGTMVIYS SSQGMGSVLNLVSTDGRFKARLPATDGQVKFPAWSPYLLEHHHHHHH

# >DM\_train335

MSLNDFLSSVLPVSEQFEYLSLQSIPLETHAVVTPNKDDKRVPKSTIKTQHFFSLFHQGKVFFSLEVYVY VTLWDEADAERLIFVSKADTNGYCNTRVSVRDITKIILEFILSIDPNYYLQKVKPAIRSYKKISPELISAAST PARTLRILARRLKQSGSTVLKEIESPRFQQDLYLSFTCPREILTKICLFTRPASQYLFPDSSKNSKKHILNGE ELMKWWGFILDRLLIECFQNDTQAKLRIPGEDPARVRSYLRGMKYPLWQVGDIFTSKENSLAVYNIPL FPDDPKARFIHQLAEEDRLLKVSLSSFWIELQERQEFKLSVTSSVMGISGYSLATPSLFPSSADVIVPKSR KQFRAIKKYITGEEYDTEEGAIEAFTNIRDFLLLRMATNLQSLTGKREHRERNQPVPASNINTLAITMLKP RKKAKALPKT

MTNKISSSDNLSNAVSATDDNASRTPNLNRRALVGGGVGLAARGALASGLQAATLPAGASQVPTTP
AGRPMPYAIRPMPEDRRFGYAIVGLGKYALNQILPGFAGCQHSRIEALVSGNAEKAKIVAAEYGVDPR
KIYDYSNFDKIAKDPKIDAVYIILPNSLHAEFAIRAFKAGKHVMCEKPMATSVADCQRMIDAAKAANK
KLMIGYRCHYDPMNRAAVKLIRENQLGKLGMVTTDNSDVMDQNDPAQQWRLRRELAGGGSLMDI
GIYGLNGTRYLLGEEPIEVRAYTYSDPNDERFVEVEDRIIWQMRFRSGALSHGASSYSTTTTSRFSVQG
DKAVLLMDPATGYYQNLISVQTPGHANQSMMPQFIMPANNQFSAQLDHLAEAVINNKPVRSPGEE
GMQDVRLIQAIYEAARTGRPVNTDWGYVRQGGY

>DM\_train341

>DM train340

MIERYSRPEMSAIWTDENRFQAWLEVEILACEAWAELGVIPKEDVKVMRENASFDINRILEIEKDTRHD VVAFTRAVSESLGEERKWVHYGLTSTDVVDTALSYLLKQANDILLKDLERFVDIIKEKAKEHKYTVMMG RTHGVHAEPTTFGLKLALWHEEMKRNLERFKQAKAGIEVGKISGAVGTYANIDPFVEQYVCEKLGLKA APISTQTLQRDRHADYMATLALIATSIEKFAVEIRGLQKSETREVEEFFAKGQKGSSAMPHKRNPIGSE NMTGMARVIRGYMMTAYENVPLWHERDISHSSAERIILPDATIALNYMLNRFSNIVKNLTVFPENMK RNMDRTLGLIYSQRVLLALIDTGLTREEAYDTVQPKAMEAWEKQVPFRELVEAEEKITSRLSPEKIADCF DYNYHLKNVDLIFERLGLA

>DM train342

MKNLISIIIILCLTLSIMTPYAQATNSDVTPVQAANQYGYAGLSAAYEPTSAVNVSQTGQLLYQYNIDT KWNPASMTKLMTMYLTLEAVNKGQLSLDDTVTMTNKEYIMSTLPELSNTKLYPGQVWTIADLLQITV SNSSNAAALILAKKVSKNTSDFVDLMNNKAKAIGMKNTHFVNPTGAENSRLRSFAPTKYKDQERTVT TARDYAILDLHVIKETPKILDFTKQLAPTTHAVTYYTFNFSLEGAKMSLPGTDGLKTGSSDTANYNHTIT TKRGKFRINQVIMGAGDYKNLGGEKQRNMMGNALMERSFDQYKYVKILSKGEQRINGKKYYVENDL YDVLPSDFSKKDYKLVVEDGKVHADYPREFINKDYGPPTVEVHQPIIQKANTVAKSMWEEHPLFTIIGG TCLVAGLALIVHMIINRLFRKRK

>DM\_train351

MSLDSRLPAFRNLSPAARLDHIGQLLGLSHDDVSLLANAGALPMDIANGMIENVIGTFELPYAVASNF QINGRDVLVPLVVEEPSIVAAASYMAKLARANGGFTTSSSAPLMHAQVQIVGIQDPLNARLSLLRRKD EIIELANRKDQLLNSLGGGCRDIEVHTFADTPRGPMLVAHLIVDVRDAMGANTVNTMAEAVAPLME AITGGQVRLRILSNLADLRLARAQVRITPQQLETAEFSGEAVIEGILDAYAFAAVDPYRAATHNKGIMN GIDPLIVATGNDWRAVEAGAHAYACRSGHYGSLTTWEKDNNGHLVGTLEMPMPVGLVGGATKTHP LAQLSLRILGVKTAQALAEIAVAVGLAQNLGAMRALATEGIQRGHMALHARNIAVVAGARGDEVDW VARQLVEYHDVRADRAVALLKQKRGQ

### >DM train364

SRAQSSPAAPASLSAPEPASQARVLSSSETPARTLPFTTGLIYDSVMLKHQCSCGDNSRHPEHAGRIQ SIWSRLQERGLRSQCECLRGRKASLEELQSVHSERHVLLYGTNPLSRLKLDNGKLAGLLAQRMFVMLP CGGVGVDTDTIWNELHSSNAARWAAGSVTDLAFKVASRELKNGFAVVRPPGHHADHSTAMGFCFF NSVAIACRQLQQQSKASKILIVDWDVHHGNGTQQTFYQDPSVLYISLHRHDDGNFFPGSGAVDEV GAGSGEGFNVNVAWAGGLDPPMGDPEYLAAFRIVVMPIAREFSPDLVLVSAGFDAAEGHPAPLGGY HVSAKCFGYMTQQLMNLAGGAVVLALEGGHDLTAICDASEACVAALLGNRVDPLSEEGWKQKPNL NAIRSLEAVIRVHSKYWGCMQRLAS

## >DM\_train369

MIKIPRGTQDILPEDSKKWRYIENQLDELMTFYNYKEIRTPIFESTDLFARGVGDSTDVVQKEMYTFKDK GDRSITLRPEGTAAVVRSYIEHKMQGNPNQPIKLYYNGPMFRYERKQKGRYRQFNQFGVEAIGAENP SVDAEVLAMVMHIYQSFGLKHLKLVINSVGDMASRKEYNEALVKHFEPVIHEFCSDCQSRLHTDPMRI LDCKVDRDKEAIKTAPRITDFLNEESKAYYEQVKAYLDDLGIPYTEDPNLVRGLDYYTHTAFELMMDN PNYDGAITTLCGGGRYNGLLELLDGPSETGIGFALSIERLLLALEEEGIELDIEENLDLFIVTMGDQADRY AVKLLNHLRHNGIKADKDYLQRKIKGQMKQADRLGAKFTIVIGDQELENNKIDVKNMTTGESETIELD ALVEYFKK

## >DM\_train372

SLLRFSAVSRHHRGASIDPMTFSEATTPDALTPDAHTPRLLTCDVLYTGMGGAQSPGGVVVVGETVA AAGHPDELRRQYPHAAEERAGAVIAPPPVNAHTHLDMSAYEFQALPYFQWIPEVVIRGRHLRGVAA AQAGADTLTRLGAGGVGDIVWAPEVMDALLAREDLSGTLYFEVLNPFPDKADEVFAAARTHLERWR RLERPGLRLGLSPHTPFTVSHRLMRLLSDYAAGEGLPLQIHVAEHPTELEMFRTGGGPLWDNRMPALY PHTLAEVIGREPGPDLTPVRYLDELGVLAARPTLVHMVNVTPDDIARVARAGCAVVTCPRSNHHLEC GTFDWPAFAAAGVEVALGTDSVASGETLNVREEVTFARQLYPGLDPRVLVRAAVKGGQRVVGGRTP FLRRGETWQEGFRWELSRDL

## >DM\_train374

MNLTELKNTPVSELITLGENMGLENLARMRKQDIIFAILKQHAKSGEDIFGDGVLEILQDGFGFLRSAD SSYLAGPDDIYVSPSQIRRFNLRTGDTISGKIRPPKEGERYFALLKVNEVNFDKPENARNKILFENLTPLH ANSRLRMERGNGSTEDLTARVLDLASPIGRGQRGLIVAPPKAGKTMLLQNIAQSIAYNHPDCVLMVL LIDERPEEVTEMQRLVKGEVVASTFDEPASRHVQVAEMVIEKAKRLVEHKKDVIILLDSITRLARAYNTV VPASGKVLTGGVDANALHRPKRFFGAARNVEEGGSLTIIATALIDTGSKMDEVIYEEFKGTGNMELHLS RKIAEKRVFPAIDYNRSGTRKEELLTTQEELQKMWILRKIIHPMGEIDAMEFLINKLAMTKTNDDFFEM MKRS

### >DM\_train380

MQVEANSERRVKILGIDRSENSPVLTYMETEDDPNFRNSKLAAAPHTVHMMDSGFLAINRQCLVKG KAILAREPKSSNEHMIDDLPKHAHDQHTLSILRDFIDQLKLHNVYEINFYDPLDSSGKLAVIPMLIALWK CMLASETDICDQEVLKSIMNSVIAKFELQIPCKNAVIDATLSGSREEVHIIAEDGSLENSNGTTEHFNKK HDLVFVKTDLHPEDFTPQMFPSQAKAKLLRDAFNNEEDEDTFPDILVPAYMTAHSKNRVRQEDYTCL EVEFDSQVALEKLMNEHEQVEGFEVQQGGILVALKKDSFFDDELIEKIAIAIATESRQSVSSVSFDLLKLG PGASLVTLANSRRFEPECRVVLQIEVKPVSPGETSSEGISDEHHYEEYDEDDIMEEEEAPSARQDDTYD EDEE

### >DM train383

MGEKLELRLKSPVGAEPAVYPWPLPVYDKHHDAAHEIIETIRWVCEEIPDLKLAMENYVLIDYDTKSFES

MQRLCDKYNRAIDSIHQLWKGTTQPMKLNTRPSTGLLRHILQQVYNHSVTDPEKLNNYEPFSPEVYG ETSFDLVAQMIDEIKMTDDDLFVDLGSGVGQVVLQVAAATNCKHHYGVEKADIPAKYAETMDREFR KWMKWYGKKHAEYTLERGDFLSEEWRERIANTSVIFVNNFAFGPEVDHQLKERFANMKEGGRIVSSK PFAPLNFRINSRNLSDIGTIMRVVELSPLKGSVSWTGKPVSYYLHTIDRTILENYFSSLKNPKLREEQEAA RRRQQRESKSNAATPTKGPEGKVAGPADAPMDSGAEEEKAGAATVKKPSPSKARKKKLNKKGRKMA GRKRGRPKK

### >DM\_train384

MSSNCTSTTAVAVAPLSASKTKTKKKHFVCQKVKLFRASEPILSVLMWGVNHTINELSNVPVPVMLM PDDFKAYSKIKVDNHLFNKENLPSRFKFKEYCPMVFRNLRERFGIDDQDYQNSVTRSAPINSDSQGRC GTRFLTTYDRRFVIKTVSSEDVAEMHNILKKYHQFIVECHGNTLLPQFLGMYRLTVDGVETYMVVTRN VFSHRLTVHRKYDLKGSTVAREASDKEKAKDLPTFKDNDFLNEGQKLHVGEESKKNFLEKLKRDVEFLA QLKIMDYSLLVGIHDVDRAEQEEMEVEERAEDEECENDGVGGNLLCSYGTPPDSPGNLLSFPRFFGPG EFDPSVDVYAMKSHESSPKKEVYFMAIIDILTPYDTKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFNE EMSNII T

#### >DM\_train397

### >DM train415

MSNKLFPPQIKVAATYMRGGTSKGVFFRLQDLPEAAQVPGPARDALLLRVIGSPDPYAKQIDGMGG ATSSTSKTVILSHSSKANHDVDYLFGQVSIDKPFVDWSGNCGNLTAAVGAFAISNGLIDAARIPRNGV CTVRIWQANIGKTIIAHVPITDGAVQETGDFELDGVTFPAAEVQIEFMNPAADDDGEGGCMFPTGNL VDVLEVPGIGRFNATMINAGIPTIFINAEDLGYTGTELQDDINSDNAALAKFETIRAHGALRMGLIKHID

### >DM train423

MFKKWKKFGISSLALVLVAAVAFTGWSAKASAADASQIVSEMGAGWNLGNQLEAAVNGTPNETA WGNPTVTPELIKKVKAAGFKSIRIPVSYLNNIGSAPNYTINAAWLNRIQQVVDYAYNEGLYVIINIHGD GYNSVQGGWLLVNGGNQTAIKEKYKKVWQQIATKFSNYNDRLIFESMNEVFDGNYGNPNSAYYTN LNAYNQIFVDTVRQTGGNNNARWLLVPGWNTNIDYTVGNYGFTLPTDNYRSSAIPSSQKRIMISAH YYSPWDFAGEENGNITQWGATSTNPAKKSTWGQEDYLESQFKSMYDKFVTQGYPVVIGEFGSIDKTS YDSSNNVYRAAYAKAVTAKAKKYKMVPVYWDNGHNGQHGFALFNRSNNTVTQQNIINAIMQGM O

# >DM\_train427

MDSQGRKVVVCDNGTGFVKCGYAGSNFPEHIFPALVGRPIIRSTTKVGNIEIKDLMVGDEASELRSML EVNYPMENGIVRNWDDMKHLWDYTFGPEKLNIDTRNCKILLTEPPMNPTKNREKIVEVMFETYQFSG VYVAIQAVLTLYAQGLLTGVVVDSGDGVTHICPVYEGFSLPHLTRRLDIAGRDITRYLIKLLLLRGYAFN HSADFETVRMIKEKLCYVGYNIEQEQKLALETTVLVESYTLPDGRIIKVGGERFEAPEALFQPHLINVEGV GVAELLFNTIQAADIDTRSEFYKHIVLSGGSTMYPGLPSRLERELKQLYLERVLKGDVEKLSKFKIRIEDPP RRKHMVFLGGAVLADIMKDKDNFWMTRQEYQEKGVRVLEKLGVTVR

### >DM\_train440

## >DM\_train454

STSATDTHHVELARERSKTVTSFYNQSAIDVVAEKPSVRLTPTMMLYSGRSQDGSHLLKSGRYLQQEL PVRIAHRIKGFRSLPFIIGCNPTILHVHELYIRAFQKLTDFPPIKDQADEAQYCQLVRQLLDDHKDVVTLL AEGLRESRKHIEDEKLVRYFLDKTLTSRLGIRMLATHHLALHEDKPDFVGIICTRLSPKKIIEKWVDFARRL CEHKYGNAPRVRINGHVAARFPFIPMPLDYILPELLKNAMRATMESHLDTPYNVPDVVITIANNDVDL IIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRISPLFGHLDMHSGGQSGPMHGFGFGLPTSRAY AEYLGGSLQLQSLQGIGTDVYLRLRHIDGREESFRIHHHHHHH

## >DM\_train463

ARFSIEGKSLKLDAITTEDEKSVFAVLLEDDSVKEIVLSGNTIGTEAARWLSENIASKKDLEIAEFSDIFTGR VKDEIPEALRLLLQALLKCPKLHTVRLSDNAFGPTAQEPLIDFLSKHTPLEHLYLHNNGLGPQAGAKIAR ALQELAVNKKAKNAPPLRSIICGRNRLENGSMKEWAKTFQSHRLLHTVKMVQNGIRPEGIEHLLLEGL AYCQELKVLDLQDNTFTHLGSSALAIALKSWPNLRELGLNDCLLSARGAAAVVDAFSKLENIGLQTLR LQYNEIELDAVRTLKTVIDEKMPDLLFLELNGNRFSEEDDVVDEIREVFSTRGRGELDELDDMEELTDEE EEDEEEEAESQSPEPETSEEEKEDKELADELSKAHI

# >DM\_train464

0000001111 >DM train465 MSKGASAPQQQSAFKQLYTELFNNEGDFSKVSSNLKKPLKCYVKESYPHFLVTDGYFFVAPYFTKEAV NEFHAKFPNVNIVDLTDKVIVINNWSLELRRVNSAEVFTSYANLEARLIVHSFKPNLQERLNPTRYPVN LFRDDEFKTTIQHFRHTALQAAINKTVKGDNLVDISKVADAAGKKGKVDAGIVKASASKGDEFSDFSF KEGNTATLKIADIFVQEKGKDALNKAADHTDGAKVKGGAKGKGKAAAKAAKGKKLSAKKGDSSAAD VRKSVDKIVKYTPSKGSRKDTPQKSQAPAAGKSSAKKGGKKAVPSAPSPSGKKSALTTDKMTMAQFV KYLDWHEKKKGGKVSSGGKVLGKRSAGKASATSGKASKKTAAKK

### >DM\_train475

CEGPPPGTEQIGYRGVGMENYYVKRQRALSIQANQPVESLPAADSTGPKASEVYQSVQVLKDLSVGE FTRTMVAVTTWVSPKEGCNYCHVPGNWASDDIYTKVVSRRMFELVRAANSDWKAHVAETGVTCYT CHRGNPVPKYAWVTDPGPKYPSGLKPTGQNYGSKTVAYASLPFDPLTPFLDQANEIRITGNAALAGS NPASLKQAEWTFGLMMNISDSLGVGCTSCHNTRAFNDWTQSTPKRTTAWYAIRHVRDINQNYIWP LNDVLPASRKGPYGDPLRVSCMTCHQAVNKPLYGAQMAKDYPGLYKTAVTQEALPGSAPASEAAP AAATEAAPEAPAQEVPAAEAVPAAAEPGAAEAAGSVEPAPVEEVAPAPAAQRL

## >DM train479

MYALTQGRIFTGHEFLDDHAVVIADGLIKSVCPVAELPPEIEQRSLNGAILSPGFIDVQLNGCGGVQFN DTAEAVSVETLEIMQKANEKSGCTNYLPTLITTSDELMKQGVRVMREYLAKHPNQALGLHLEGPWLN LVKKGTHNPNFVRKPDAALVDFLCENADVITKVTLAPEMVPAEVISKLANAGIVVSAGHSNATLKEAK AGFRAGITFATHLYNAMPYITGREPGLAGAILDEADIYCGIIADGLHVDYANIRNAKRLKGDKLCLVTD ATAPAGANIEQFIFAGKTIYYRNGLCVDENGTLSGSSLTMIEGVRNLVEHCGIALDEVLRMATLYPARA IGVEKRLGTLAAGKVANLTAFTPDFKITKTIVNGNEVVTQ

## >DM\_train481

MKWSDNKDDILKGGDVVRLFHAEQEKFLTCDEHRKKQHVFLRTTGRQSATSATSSKALWEVEVVQH DPCRGGAGYWNSLFRFKHLATGHYLAAEVDPDFEEECLEFQPSVDPDQDASRSRLRNAQEKMVYSL VSVPEGNDISSIFELDPTTLRGGDSLVPRNSYVRLRHLCTNTWVHSTNIPIDKEEEKPVMLKIGTSPLKE DKEAFAIVPVSPAEVRDLDFANDASKVLGSIAGKLEKGTITQNERRSVTKLLEDLVYFVTGGTNSGQDV LEVVFSKPNRERQKLMREQNILKQIFKLLQAPFTDCGDGPMLRLEELGDQRHAPFRHICRLCYRVLRH

## SQQDYRKNQEYIAKQFGFMQKQIGYDVLAEDTITALLHNNRK

## >DM\_train485

SLNMFWFLPTHGDGHYLGTEEGSRPVDHGYLQQIAQAADRLGYTGVLIPTGRSCEDAWLVAASMIP VTQRLKFLVALRPSVTSPTVAARQAATLDRLSNGRALFNLVTGSDPQELAGDGVFLDHSERYEASAEF TQVWRRLLQRETVDFNGKHIHVRGAKLLFPAIQQPYPPLYFGGSSDVAQELAAEQVDLYLTWGEPPE LVKEKIEQVRAKAAAHGRKIRFGIRLHVIVRETNDEAWQAAERLISHLDDETIAKAQAAFARTDSVGQ QRMAALHNGKRDNLEISPNLWAGVGLVRGGAGTALVGDGPTVAARINEYAALGIDSFVLSGYPHLE EAYRVGELLFPLLDVAIPEIPQPQPLNPQGEAVANDFIPRKVAQS

## >DM train486

KFSAKRLPSTRLGTFLENRVNDFLRRQNHPESGEVTVRVVHASDKTVEVKPGMKARFVDSGEMAESF PYRTKALFAFEEIDGVDLCFFGMHVQEYGSDCPPPNQRRVYISYLDSVHFFRPKCLRTAVYHEILIGYLE YVKKLGYTTGHIWACPPSEGDDYIFHCHPPDQKIPKPKRLQEWYKKMLDKAVSERIVHDYKDIFKQAT EDRLTSAKELPYFEGDFWPNVLEESIKELEQEEEERKREENTSNESTDVTKGDSKNAKKKNNKKTSKNK SSLSRGNKKKPGMPNVSNDLSQKLYATMEKHKEVFFVIRLIAGPAANSLPPIVDPDPLIPCDLMDGRD AFLTLARDRHLEFSSLRRAQWSTGCMLVELHTQSQDRF

# >DM\_train487

MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDTEATATDYHTTSHPGTHKVYVELQELVM DEKNQELRWMEAARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVLLDLQETSLAGVA NQLLDRFIFEDQIRPQDREELLRALLLKHSHAGELEALGGVKPAVLTRSGDPSQPLLPQHSSLETQLFCE QGDGGTEGHSPSGILEKIPPDSEATLVLVGRADFLEQPVLGFVRLQEAAELEAVELPVPIRFLFVLLGPEA PHIDYTQLGRAAATLMSERVFRIDAYMAQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQREL LRRRYQSSPAKPDSSFYKGLDLNGGPDDPLQQTGQLF

>DM\_train506

DQNFARNEKEAKDSAITFIQKSAAIKAGARSAEDIKLDKVNLGGELSGSNMYVYNISTGGFVIVSGDKR SPEILGYSTSGSFDVNGKENIASFMESYVEQIKENKKLDSTYAGTAEIKQPVVKSLLDSKGIHYNQGNPY NLLTPVIEKVKPGEQSFVGQHAATGSVATATAQIMKYHNYPNKGLKDYTYTLSSNNPYFNHPKNLFA AISTRQYNWNNILPTYSGRESNVQKMAISELMADVGISVDMDYGPSSGSAGSSRVQRALKENFGYN QSVHQINRGDFSKQDWEAQIDKELSQNQPVYYQGVGKVGGHAFVIDGADGRNFYHVNWGWGG VSDGFFRLDALNPSALGTGGGAGGFNGYOSAVVGIKP

MEKELDLSQYSVRTDLAVEAKDIALENQPKPNNQSEIKGVIVKEKEEQGVKISMVEITEEGAEAIGKKKG RYVTLESVGIREQDTEKQEEAMEEVFAKELNFFIKSLNIPDDASCLVVGLGNLSVTPDALGPKAVDNLLI TRHLFELQPESVQDGFRPVSAIVPGVMGMTGIETSDIIFGVVKKVNPDFIIAIDALAARSIERVNATIQIS DSGIHPGSGVGNKRKEISYETLGIPVIAIGIPTVVDAVSITSDTIDFILKHFGREMKEQGKPSKSLLPSGMT FGEKKKLTEDDLPNEEQRQTYLGMIGTLPDEEKRRLIHEVLAPLGHNLMVTPKEVDMFIEDMANVVA GGLNAALHHEVDQENFGAYTH

MTETIKCIGCGVEIQTEDKNEVGYAPASSLEKEQVICQRCFRLKHYNEIQDVSLTDDDFLRILNGIGKSD ALVVKIVDIFDFNGSWLPGLHRFVGNNKVLLVGNKADLIPKSVKHDKVKHWMRYSAKQLGLKPEDVF LISAAKGQGIAELADAIEYYRGGKDVYVVGCTNVGKSTFINRMIKEFSDETENVITTSHFPGTTLDLIDIP LDEESSLYDTPGIINHHQMAHYVGKQSLKLITPTKEIKPMVFQLNEEQTLFFSGLARFDYVSGGRRAFT CHFSNRLTIHRTKLEKADELYKNHAGDLLSPPTPEELENMPELVKYEFNIREPKTDVVFSGLGWVTVNE PGAKIVAHVPKGVSVSLRKSLI

>DM\_train516

MTSGSLQFTVLRAVNPATDAQRESMLREPGFGKYHTDHMVSIDYAEGRGWHNARVIPYGPIELDPS AIVLHYAQEVFEGLKAYRWADGSIVSFRADANAARLRSSARRLAIPELPDAVFIESLRQLIAVDKAWVP GAGGEEALYLRPFIFATEPGLGVRPATQYRYLLIASPAGAYFKGGIAPVSVWVSTEYVRACPGGTGAAK FGGNYAASLLAQAEAAENGCDQVVWLDAVERRYIEEMGGMNIFFVLGSGGSARLVTPELSGSLLPGI TRDSLLQLAIDAGFAVEERRIDIDEWQKKAAAGEITEVFACGTAAVITPVARVRHGASEFRIADGQPGE

## VTMALRDTLTGIQRGTFADTHGWMARLG

METKHSNRARSRKGALRGAVLAGALMALVGCQTSPAATTSSNTGGTNMQLQLTQEWDKTFPLSAK VEHRKVTFANRYGITLAADLYLPKNRGGDRLPAIVIGGPFGAVKEQSSGLYAQTMAERGFVTLAFDPS YTGESGGQPRNVASPDINTEDFSAAVDFISLLPEVNRERIGVIGICGWGGMALNAVAVDKRVKAVVTS TMYDMTRVMSKGYNDSVTLEQRTRTLEQLGQQRWKDAESGTPAYQPPYNELKGGEAQFLVDYHD YYMTPRGYHPRAVNSGNAWTMTTPLSFMNMPILTYIKEISPRPILLIHGERAHSRYFSETAYAAAAEPK ELLIVPGASHVDLYDRLDRIPFDRIAGFFDEHL

SRMPSPPMPVPPAALFNRLLDDLGFSAGPALCTMLDTWNEDLFSALPTNADLYRECKFLSTLPSDVVE WGDAYVPERTQIDIRAHGDVAFPTLPATRDGLGLYYEALSRFFHAELRAREESYRTVLANFCSALYRYL RASVRQLHRQAHMRGRDRDLGEMLRATIADRYYRETARLARVLFLHLYLFLTREILWAAYAEQMMRP DLFDCLCCDLESWRQLAGLFQPFMFVNGALTVRGVPIEARRLRELNHIREHLNLPLVRSAATEEPGAP LTTPPTLHGNQARASGYFMVLIRAKLDSYSSFTTSPSEAVMREHAYSRAPTKNNYGSTIEGLLDLPDDD APEEAGLAAPRLSFLPAGHTRRLST

>DM\_train525

MALILTFLGKSGVARTKIAIAAAKLLASQGKRVLLAGLAEPVLPLLLEQTLTPDPQQIAPNLEVVQFQSS VLLERNWEEVKKLEAQYLRTPIIKEVYGQELVVLPGMDSALALNAIREYDASGKYDTIVYDGTGDAFTL RMLGLPESLSWYVRRFRQLFVNSDLGKTIAESPLIQPLISSFFNVNWTADNFAQPTNQVNNFLDKGKE ALADPKRVAAFLVTTADPLEVVSVRYLWGSAQQIGLTIGGVIQVSSQTEGDLSAEFTPLSVTVVPDVTK GDWQPLIDALPNFVEQAEQAPKPITIDTHNRQVRLFLPGFDKKQVKLTQYGPEVTVEAGDQRRNIFLP PALSGRPITGAKFONNYLIISF

>DM train527

MKIADLMTLLDHHVPFSTAESWDNVGLLIGDEDVEVTGVLTALDCTLEVVNEAIEKGYNTIISHHPLIFK

GVTSLKANGYGLIIRKLIQHDINLIAMHTNLDVNPHGVNMMLAKVMGLKNISIINNQQDVYYKVQTY IPKDNVGPFKDKLSENGLAQEGNYEYCFFESEGRGQFKPVGEANPTIGQIDKIEDVDEVKIEFMIDAYQ KSRAEQLIKQYHPYETPVFDFIEIKQTSLYGLGVMAEVDNQMTLEDFAADIKSKLNIPSVRFVGESNQKI KRIAIIGGSGIGYEYQAVQQGADVFVTGDIKHHDALDAKIHGVNLIDINHYSEYVMKEGLKTLLMNWF NIEKINIDVEASTINTDPFOYI

MSNEIPKPVAPAPDILRCAYAELVVTDLAKSRNFYVDVLGLHVSYEDENQIYLRSFEEFIHHNLVLTKGP VAALKAMAFRVRTPEDVDKAEAYYQELGCRTERRKDGFVKGIGDALRVEDPLGFPYEFFFETTHVERL HMRYDLYSAGELVRLDHFNQVTPDVPRGRKYLEDLGFRVTEDIQDDEGTTYAAWMHRKGTVHDTA LTGGNGPRLHHVAFSTHEKHNIIQICDKMGALRISDRIERGPGRHGVSNAFYLYILDPDNHRIEIYTQD YYTGDPDNPTITWNVHDNQRRDWWGNPVVPSWYTEASKVLDLDGNVQEIIERTDDSELEVTIGAD GFSFTRAGDEDGSYHGQASKGFKLGNQL

>DM train532

MQTRRVVLKSAAAAGTLLGGLAGCASVAGSIGTGDRINTVRGPITISEAGFTLTHEHICGSSAGFLRAW PEFFGSRKALAEKAVRGLRRARAAGVRTIVDVSTFDIGRDVSLLAEVSRAADVHIVAATGLWFDPPLS MRLRSVEELTQFFLREIQYGIEDTGIRAGIIKVATTGKATPFQELVLKAAARASLATGVPVTTHTAASQR DGEQQAAIFESEGLSPSRVCIGHSDDTDDLSYLTALAARGYLIGLDHIPHSAIGLEDNASASALLGIRSW QTRALLIKALIDQGYMKQILVSNDWLFGFSSYVTNIMDVMDRVNPDGMAFIPLRVIPFLREKGVPQET LAGITVTNPARFLSPTLRAS

>DM\_train535

MDRRSFITKAAVGGAAASALAAPALAQSAPKVTWRLASSFPKSLDTIFGGAEVLSKMLSEATDGNFQI QVFSAGELVPGLQAADAVTEGTVECCHTVGYYYWGKDPTFALAAAVPFSLSARGINAWHYHGGGID LYNEFLSQHNIVAFPGGNTGVQMGGWFRREINTVADMQGLKMRVGGFAGKVMERLGVVPQQIAG GDIYPALEKGTIDATEWVGPYDDEKLGFFKVAPYYYYPGWWEGGPTVHFMFNKSAYEGLTPTYQSLL RTACHAADANMLQLYDWKNPTAIKSLVAQGTQLRPFSPEILQACFEAANEVYAEMEASNPAFKKIW DSIKAFRSEHYTWAQIAEYNYDTFMMVQQNAGKL

>DM\_train556

GPHMDAATLTYDTLRFAEFEDFPETSEPVWILGRKYSIFTEKDEILSDVASRLWFTYRKNFPAIGGTGPT SDTGWGCMLRCGQMIFAQALVCRHLGRDWRWTQRKRQPDSYFSVLNAFIDRKDSYYSIHQIAQM GVGEGKSIGQWYGPNTVAQVLKKLAVFDTWSSLAVHIAMDNTVVMEEIRRLCRTSVPCAGATAFPA DSDRHCNGFPAGAEVTNRPSPWRPLVLLIPLRLGLTDINEAYVETLKHCFMMPQSLGVIGGKPNSAH YFIGYVGEELIYLDPATTQPAVEPTDGCFIPDESFHCQHPPCRMSIAELDPSIAVGFFCKTEDDFNDWC OOVKKLSLLGGALPMFELVEO

>DM\_train557

SVPIVSAWEKGMEAARALMDKYHVDNDLKANFKLLPDQVEALAAVCKTWLNEEHRGLQLTFTSNKT FVTMMGRFLQAYLQSFAEVTYKHHEPTGCALWLHRCAEIEGELKCLHGSIMINKEHVIEMDVTSENG QRALKEQSSKAKIVKNRWGRNVVQISNTDARCCVHDAACPANQFSGKSCGMFFSEGAKAQVAFKQ IKAFMQALYPNAQTGHGHLLMPLRCECNSKPGHAPFLGRQLPKLTPFALSNAEDLDADLISDKSVLAS VHHPALIVFQCCNPVYRNSRAQGGGPNCDFKISAPDLLNALVMVRSLWSENFTELPRMVVPEFKWS TKHQYRNVSLPVAHSDARQNPFDF

>DM\_train562

NRRNKARKVVSRSTALVPMAPASQRTGPAPRKPRKRNQALVRNPRLTDAGLAFLKCAFAAPDFSVD PGKGIPDNFHGRTLAIKDCNTTSVVFTPNTDTYIVVAPVPGFAYFRAEVAVGAQPTTFVGVPYPTYAT NFGAGSQNGLPAVNNYSKFRYASMACGLYPTSNMMQFSGSVQVWRVDLNLSEAVNPAVTAITPA PGVFANFVDKRINGLRGIRPLAPRDNYSGNFIDGAYTFAFDKSTDFEWCDFVRSLEFSESNVLGAATA MKLLAPGGGTDTTLTGLGNVNTLVYKISTPTGAVNTAILRTWNCIELQPYTDSALFQFSGVSPPFDPLA LECYHNLKMRFPVAVSSREN

>DM\_train570

MTIAIGRAPAERGWFDILDDWLKRDRFVFVGWSGILLFPCAYLALGGWLTGTTFVTSWYTHGLASSYL EGCNFLTVAVSTPANSMGHSLLLLWGPEAQGDFTRWCQLGGLWTFIALHGAFGLIGFMLRQFEIARL VGVRPYNAIAFSAPIAVFVSVFLIYPLGQSSWFFAPSFGVAAIFRFLLFFQGFHNWTLNPFHMMGVAG VLGGALLCAIHGATVENTLFQDGEGASTFRAFNPTQAEETYSMVTANRFWSQIFGIAFSNKRWLHFF MLFVPVTGLWMSAIGVVGLALNLRSYDFISQEIRAAEDPEFETFYTKNLLLNEGIRAWMAPQDQPHE

### **NFVFPEEVLPRGNAL**

#### >DM train587

MSAESERKTETIPEWKQEEVDAIVEMIESYESVGVVNIAGIPSRQLQDMRRDLHGTAELRVSRNTLLER ALDDVDDGLEDLNGYITGQVGLIGTDDNPFSLFQELEASKTPAPIGAGEVAPNDIVIPEGDTGVDPGP FVGELQSVGADARIQEGSIQVLSDSTVLDTGEEVSQELSNVLNELGIEPKEVGLDLRAVFADGVLFEPEE LELDIDEYRSDIQAAAGRAFNLSVNADYPTATTAPTMLQSDRGNAKSLALQAAIEDPEVVPDLVSKAD AQVRALASQIDDEEALPEELQGVEADVATEEPTDDQDDDTASEDDADADDAAEEADDDDDDDD AGDALGAMF

## >DM\_train589

GSPGISGGGGGILDSMDVVSLDKPFMYFEEIDNELDYEPESANEVAKKLPYQGQLKLLLGELFFLSKLQ RHGILDGATVVYIGSAPGTHIRYLRDHFYNLGVIIKWMLIDGRHHDPILNGLRDVTLVTRFVDEEYLRSI KKQLHPSKIILISDVRSKRGGNEPSTADLLSNYALQNVMISILNPVASSLKWRCPFPDQWIKDFYIPHG NKMLQPFAPSYSAEMRLLSIYTGENMRLTRVTKSDAVNYEKKMYYLNKIVRNKVVVNFDYPNQEYDY FHMYFMLRTVYCNKTFPTTKAKVLFLQQSIFRFLNIPTTSTEKVSHEPIQRKISSKNSMSKNRNSKRSVR SNK

# >DM\_train593

MDLELEPTLESIVQHDSLKWIFVGGKGGVGKTTTSSSVAVQLALAQPNEQFLLISTDPAHNLSDAFCQ KFGKDARKVEGLPNLSCMEIDPEAAMSDLQQQASQYNNDPNDPLKSMMSDMTGSIPGIDEALSFM EVLKHIKNQKVLEGEDNSNAISYKTIIFDTAPTGHTLRFLQLPSTLEKLLSKFKDLSGKLGPMLSMMGGG QQQDIFEKLNEVQKNVSEVNEQFTNPELTTFICVCISEFLSLYETERMIQELMSYNMDVNSIVVNQLLF AEGDDHSCKRCESRWKMQKKYLDQMGELYEDYHLVKMPLLGCEIRGVENLKKFSKFLLKPYDPKADS DIVFDLEEK

### >DM train603

MAMVSEFLKOAWFIDNEEOEYIKTVKGSKGGPGSAVSPYPTFNPSSDVEALHKAITVKGVDEATIIEILT

### >DM train609

MTTKISRRTFFVGGTALTALVVANLPRRASAQSRTINLYSSRHYNTDDALYDAFGEVNLIEASAEELIERI QSEGANSPGDILFTVDAGMLWRAEQAGLFQPVRSGKLNERIPENLRHPDGLWYGFTQRARVLYYSR DRVNPADLSTYEALADPQWRGKILVRPSSNVYNLSLTASRIAIHGEPETRRWLQGLVGNFARQPEGN DTAQIRAIAAGIGDVAIANSYYYIRLQKSTDPADQEVVEKVSLFFPNTGSGERGTHVNVSGAGVLKNA PNRDAAIAFLEYLASDDAQRYFAEGNNEYPVIPGVPIDPVLAAHGQLKGDPLNVSNLGRYQPDSARL MNEVGWQ

### >DM train612

MSNLLTVHQNLPALPVDATSDEVRKNLMDMFRDRQAFSEHTWKMLLSVCRSWAAWCKLNNRKW FPAEPEDVRDYLLYLQARGLAVKTIQQHLGQLNMLHRRSGLPRPSDSNAVSLVMRRIRKENVDAGER AKQALAFERTDFDQVRSLMENSDRCQDIRNLAFLGIAYNTLLRIAEIARIRVKDISRTDGGRMLIHIGRT KTLVSTAGVEKALSLGVTKLVERWISVSGVADDPNNYLFCRVRKNGVAAPSATSQLSTRALEGIFEATH RLIYGAKDDSGQRYLAWSGHSARVGAARDMARAGVSIPEIMQAGGWTNVNIVMNFIRNLDSETGA MVRLLEDGDTD

# >DM\_train615

MLKEFKMIEAVAPDMLDVLQERFQILRNIYWMQPIGRRSLSETMGITERVLRTETDVLKQLNLIEPSKS GMTLTERGLEVYQGLELVMNQLLGMHQIEKEMTQYFGIQRCIVVAGDSDIQKKVLSDFGDVLTNTLN LLLPNGENTIAVMGGTTMAMVAENMGSLETEKRHNLFVPARGGIGEAVSVQANSISAVMANKTGG NYRALYVPEQLSRETYNSLLQEPSIQEVLTLISHANCVVHSIGRALHMAARRKMSDDEMVMLKQKNA VAESFGYFFDEEGKVVYKIPRIGLQLKNLQEIPYVVAIAGGKTKAKAIRAYMKNAPKQTWLITDEAAAN FII KGVTI

>DM train663

MNVDPFSPHSSDSFAQAASPARKPPRGGRRIWSGTREVIAYGMPASVWRDLYYWALKVSWPVFFAS LAALFVVNNTLFALLYQLGDAPIANQSPPGFVGAFFFSVETLATVGYGDMHPQTVYAHAIATLEIFVG MSGIALSTGLVFARFARPRAKIMFARHAIVRPFNGRMTLMVRAANARQNVIAEARAKMRLMRREHS SEGYSLMKIHDLKLVRNEHPIFLLGWNMMHVIDESSPLFGETPESLAEGRAMLLVMIEGSDETTAQVM QARHAWEHDDIRWHHRYVDLMSDVDGMTHIDYTRFNDTEPVEPPGAAPDAQAFAAKPGEGDAR PV

### >DM train688

## >DM\_train697

#### >DM train707

MKLQQLRYIVEVVNHNLNVSSTAEGLYTSQPGISKQVRMLEDELGIQIFARSGKHLTQVTPAGQEIIRI AREVLSKVDAIKSVAGEHTWPDKGSLYVATTHTQARYALPGVIKGFIERYPRVSLHMHQGSPTQIAEA VSKGNADFAIATEALHLYDDLVMLPCYHWNRSIVVTPEHPLATKGSVSIEELAQYPLVTYTFGFTGRSE LDTAFNRAGLTPRIVFTATDADVIKTYVRLGLGVGVIASMAVDPVSDPDLVKLDANGIFSHSTTKIGFR RSTFLRSYMYDFIQRFAPHLTRDVVDTAVALRSNEDIEAMFKDIKLPEK

>DM\_train718

DFSIVGYSQDDLTSTERLIQLFNSWMLNHNKFYENVDEKLYRFEIFKDNLNYIDETNKKNNSYWLGLN EFADLSNDEFNEKYVGSLIDATIEQSYDEEFINEDIVNLPENVDWRKKGAVTPVRHQGSCGSCWAFSA VATVEGINKIRTGKLVELSEQELVDCERRSHGCKGGYPPYALEYVAKNGIHLRSKYPYKAKQGTCRAKQ VGGPIVKTSGVGRVQPNNEGNLLNAIAKQPVSVVVESKGRPFQLYKGGIFEGPCGTKVDGAVTAVGY GKSGGKGYILIKNSWGTAWGEKGYIRIKRAPGNSPGVCGLYKSSYYPTKN

>DM train726

MDKLISNNKLKLSVVLLGGLCSLAYYHLKNKFHLSQFCFSKKWFSEFSIMWPGQAFSLKIKKILYETKSK YQNVLVFESTTYGKVLVLDGVIQLTEKDEFAYHEMMTHVPMTVSKEPKNVLVVGGGDGGIIRELCKYK SVENIDICEIDETVIEVSKIYFKNISCGYEDKRVNVFIEDASKFLENVTNTYDVIIVDSSDPIGPAETLFNQN FYEKIYNALKPNGYCVAQCESLWIHVGTIKNMIGYAKKLFKKVEYANISIPTYPCGCIGILCCSKTDTGLT KPNKKLESKEFADLKYYNYENHSAAFKLPAFLLKEIENI

>DM\_train727

SKILVIAEHRRNDLRPVSLELIGAANGLKKSGEDKVVVAVIGSQADAFVPALSVNGVDELVVVKGSSID FDPDVFEASVSALIAAHNPSVVLLPHSVDSLGYASSLASKTGYGFATDVYIVEYQGDELVATRGGYNQ KVNVEVDFPGKSTVVLTIRPSVFKPLEGAGSPVVSNVDAPSVQSRSQNKDYVEVGGGNDIDITTVDFI MSIGRGIGEETNVEQFRELADEAGATLCCSRPIADAGWLPKSRQVGQSGKVVGSCKLYVAMGISGSI QHMAGMKHVPTIIAVNTDPGASIFTIAKYGIVADIFDIEEELKAQLAA

>DM\_train740

>DM\_train748

MKISIGLGKEGVEERLAERGVSRRDFLKFCTAIAVTMGMGPAFAPEVARALMGPRRPSVVYLHNAECT GCSESVLRAFEPYIDTLILDTLSLDYHETIMAAAGDAAEAALEQAVNSPHGFIAVVEGGIPTAANGIYGK VANHTMLDICSRILPKAQAVIAYGTCATFGGVQAAKPNPTGAKGVNDALKHLGVKAINIAGCPPNPY NLVGTIVYYLKNKAAPELDSLNRPTMFFGQTVHEQCPRLPHFDAGEFAPSFESEEARKGWCLYELGCK GPVTMNNCPKIKFNQTNWPVDAGHPCIGCSEPDFWDAMTPFYQN

>DM train765

LSYPNATESVYGLTRYSTNDEAIAGVNNESSITPAKFTVALNNVFETRVSTESSNGVIKISSLPQALAGA DDTTAMTPLKTQQLAVKLIAQIAPSKNAATESEQGVIQLATVAQARQGTLREGYAISPYTFMNSTATE EYKGVIKLGTQSEVNSNNASVAVTGATLNGRGSTTSMRGVVKLTTTAGSQSGGDASSALAWNADVI HQRGGQTINGTLRINNTLTIASGGANITGTVNMTGGYIQGKRVVTQNEIDRTIPVGAIMMWAADSLP SDAWRFCHGGTVSASDCPLYASRIGTRYGGSSSNPGLPDMR

>DM\_train775

MTVQQHWKKWQAKIFSAKNRPNLLFSLLIIGLVLGVVLVQAKSMQKQHKNHIRSSRISKKKTTPKPNI NPNALKIGSNHNNQAEGYAYSAETVRQMMNNKQASAKQKLVFLTFDDGVDPNMTPKILDVLAQQ HVHATFFLVGCNITDKVKPILQRQITEGHALGIHSFSHVYSLLYPNRVGNTQQIVSEVTRTQNALKDQL GQNFKTGVWRYPGGHLSWTGLEAADKQLAAQGIQWMDWNAAVGDAEPLATRPTTVASMLAFLD GSAKIATNPNVQVVLMHDISEKTITLASLPQIIRYYKDRGYTFAVLK

>DM\_train818

GLGQMLESMIDNTVRETVGAATSRDALPNTEASGPTHSKEIPALTAVETGATNPLVPSDTVQTRHVV QHRSRSESSIESFFARGACVTIMTVDNPASTTNKDKLFAVWKITYKDTVQLRRKLEFFTYSRFDMELTFV VTANFTETNNGHALNQVYQIMYVPPGAPVPEKWDDYTWQTSSNPSIFYTYGTAPARISVPYVGISNA YSHFYDGFSKVPLKDQSAALGDSLYGAASLNDFGILAVRVVNDHNPTKVTSKIRVYLKPKHIRVWCPR PPRAVAYYGPGVDYKDGTLTPLSTKDLTTY

>DM\_train830

MARGMNHVYLIGALARDPELRYTGNGMAVFEATVAGEDRVIGNDGRERNLPWYHRVSILGKPAEW QAERNLKGGDAVVVEGTLEYRQWEAPEGGKRSAVNVKALRMEQLGTQPELIQDAGGGVRMSGAM NEVLVLGNVTRDPEIRYTPAGDAVLSLSIAVNENYQDRQGQRQEKVHYIDATLWRDLAENMKELRK GDPVMIMGRLVNEGWTDKDGNKRNSTRVEATRVEALARGAGNANSGYAAATPAAPRTQTASSAA RPTSGGYQSQPSRAANTGSRSGGLDIDQGLDDFPPEEDDLPF

>DM\_train862

MGHHHHHHDYDIPTTENLYFQGAHMGIQRPTSTGSNNDKKVTIGVASNDTKAWEKVKELAKKDDI DVEIKHFSDYNLPNKALNDGDIDMNAFQHFAFLDQYKKAHKGTKISALSTTVLAPLGIYSDKIKDVKKV KDGAKVVIPNDVSNQARALKLLEAAGLIKLKKDFGLAGTVKDITSNPKHLKITAVDAQQTARALSDVDI AVINNGVATKAGKDPKNDPIFLEKSNSDAVKPYINIVAVNDKDLDNKTYAKIVELYHSKEAQKALQED VKDGEKPVNLSKDEIKAIETSLAK

MGELFLVGMGPGDLPGLTQRAREALEGAEVVIGYSTYVKLLEEMGLLAGKEVVRKGMTEELDRAEEAL ERALSGQRVALVSGGDPGIYGMAAPVLELMEERGLKRVDGGVGLPGRFAGEEGEVFLAVIPGVTAAN AVASLLGSPLAHDTCLISLSDLLTPWPLIERRLHAAGQGDFVVVLYNPQSKRRDWQLRKSAEILLEYRP KETPAALVKSAYRKRQEVALTTLEGLREAEAGMLTTVVIGNRQSRFYEGTFLTPRGYALKYDLDTKEALP GETPGLSLVSPEGASSGRRDA

VDSVYRTRSLGVAAEGIPDQYADGEAARVWQLYIGDTRSRTAEYKAWLLGLLRQHGCHRVLDVACG TGVDSIMLVEEGFSVTSVDASDKMLKYALKERWNRRKEPAFDKWVIEEANWLTLDKDVPAGDGFDA VICLGNSFAHLPDSKGDQSEHRLALKNIASMVRPGGLLVIDHKNYDYILSTGCAPPGKNIYYKSDLTKD ITTSVLTVNNKAHMVTLDYTVQVPGAGRDGAPGFSKFRLSYYPHCLASFTELVQEAFGGRCQHSVLG DFKPYRPGQAYVPCYFIHVLKKTG

QTSVSPSKVILPRGGSVLVTCSTSCDQPKLLGIETPLPKKELLLPGNNRKVYELSNVQEDSQPMCYSNC PDGQSTAKTFLTVYWTPERVELAPLPSWQPVGKNLTLRCQVEGGAPRANLTVVLLRGEKELKREPAV GEPAEVTTTVLVRRDHHGANFSCRTELDLRPQGLELFENTSAPYQLQTFVLPATPPQLVSPRVLEVDT QGTVVCSLDGLFPVSEAQVHLALGDQRLNPTVTYGNDSFSAKASVSVTAEDEGTQRLTCAVILGNQS OETLQTVTIYSFPAPNVILT

>DM\_train887

MTWPLPDRLSINSLSGTPAVDLSSFTDFLRRQAPELLPASISGGAPLAGGDAQLPHGTTIVALKYPGGV VMAGDRRSTQGNMISGRDVRKVYITDDYTATGIAGTAAVAVEFARLYAVELEHYEKLEGVPLTFAGKI NRLAIMVRGNLAAAMQGLLALPLLAGYDIHASDPQSAGRIVSFDAAGGWNIEEEGYQAVGSGSLFA KSSMKKLYSQVTDGDSGLRVAVEALYDAADDDSATGGPDLVRGIFPTAVIIDADGAVDVPESRIAELA RAIIESRSGADTFGSDGGEK

>DM train889

DAETVGRVKRFIQENVFVAANHNGSPLSIKEAPKELSFGARAELPRIHPVASKLLRLMQKKETNLCLSA DVSLARELLQLADALGPSICMLKTHVDILNDFTLDVMKELITLAKCHEFLIFEDRKFADIGNTVKKQYEG GIFKIASWADLVNAHVVPGSGVVKGLQEVGLPLHRGCLLIAEMSSTGSLATGDYTRAAVRMAEEHSE FVVGFISGSRVSMKPEFLHLTPGVQLEAGGDNLGQQYNSPQEVIGKRGSDIIIVGRGIISAADRLEAAE MYRKAAWEAYLSRLGV

>DM train894

KYALADASLKMADPNRFRGKDLPVLDQLTDPPGVRRVYHIQAGLPDPFQPPSLPITVYYAVLERACRS VLLNAPSEAPQIVRGASEDVRKQPYNLTIAWFRMGGNCAIPITVMEYTECSYNKSLGACPIRTQPRW NYYDSFSAVSEDNLGFLMHAPAFETAGTYLRLVKINDWTEITQFILEHRAKGSCKYALPLRIPPSACLSP QAYQQGVTVDSIGMLPRFIPENQRTVAVYSLKIAGWHGPKAPYTSTLLPPELSETPNATQPELAPEDP EDSALLEDPVGTHHHHH

>DM train901

GAMGMKVDVGPDPSLVYRPDVDPEMAKSKDSFRNYTSGPLLDRVFTTYKLMHTHQTVDFVSRKRIQ YGSFSYKKMTIMEAVGMLDDLVDESDPDVDFPNSFHAFQTAEGIRKAHPDKDWFHLVGLLHDLGKI MALWGEPQWAVVGDTFPVGCRPQASVVFCDSTFQDNPDLQDPRYSTELGMYQPHCGLENVLMS WGHDEYLYQMMKFNKFSLPSEAFYMIRFHSFYPWHTGGDYRQLCSQQDLDMLPWVQEFNKFDLY

## TKCPDLPDVESLRPYYQGLIDKYCPGTLSW

HHHHHHEQKLISEEDLEGIKYRRNELFLDVLESVNLLMSPQGQVLSAHVSGRVVMKSYLSGMPECKF GMNDKIVIEKQGKGTADETSKSGKQSIAIDDCTFHQCVRLSKFDSERSISFIPPDGEFELMRYRTTKDIIL PFRVIPLVREVGRTKLEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKASENAIVWKIK RMAGMKESQISAEIELLPTNDKKKWARPPISMNFEVPFAPSGLKVRYLKVFEPKLNYSDHDVIKWVRYI GRSGIYETRC

MNAPPALLRSVLFAPGNRADLIAKLPRSAPDAVVIDLEDAVPGTAEAKAAARPVAHDAARDLIAAAP HLAVFVRVNALHSPYFEDDLSVLTPELSGVVVPKLEMGAEARQVAQMLQERSLPLPILAGLETGAGV WNAREIMEVPEVAWAYFGAEDYTTDLGGKRTPGGLEVLYARSQVALAARLTGVAALDIVVTALNDPE TFRADAEQGRALGYSGKLCIHPAQVALAHEYFGPTEADRARARALLDAAAAAAQRGHGAFSFEGQ MVDEPMLAKARTLLSHEA

MMEQVCDVFDIYAICACCKVESKNEGKKNEVFNNYTFRGLGNKGVLPWKCNSLDMKYFRAVTTYV NESKYEKLKYKRCKYLNKETVDNVNDMPNSKKLQNVVVMGRTNWESIPKKFKPLSNRINVILSRTLKK EDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKKLIKKIYFTRINSTYECDVFFPEINENEYQII SVSDVYTSNNTTLDFIIYKKTNNKMLNEQNCIKGEEKNNDMPLKNDDKDTCHMKKLTEFYKNVDKYK INYEN

### >DM\_train941

### >DM train943

MENSEKTEVVLLACGSFNPITNMHLRLFELAKDYMNGTGRYTVVKGIISPVGDAYKKKGLIPAYHRVIM AELATKNSKWVEVDTWESLQKEWKETLKVLRHHQEKLEASDCDHQQNSPTLERPGRKRKWTETQD SSQKKSLEPKTKAVPKVKLLCGADLLESFAVPNLWKSEDITQIVANYGLICVTRAGNDAQKFIYESDVL WKHRSNIHVVNEWFANDISSTKIRRALRRGQSIRYLVPDLVQEYIEKHNLYSSESEDRNAGVILAPLQR NTAEAKT

## >DM train947

#### >DM\_train950

ANINDKRVMKEANGIFVEQRWNGKRWVTEASWRAGQAPNKERAATVTKSIARKVRGGVSRAGGFV TAPVIGAMVTRPTVPRFGMRGNSTVVSNSELILNLTPIALAYTVQSLPLIATQPAWLGTIADNYSKWR WVSLRIIYSPKCPTTTSGTVAMCLSYDRNDVAPGSRVQLSQTYKAINFPPYAGYDGAAILNTDVTPTS AIYVDVDVTRFDKAWYSTIGTAAFAALTAFDQNQFCPCTVHIGSDGGPAVAVPPGDIFFKYVIELIEPI NPTMNV

## >DM train977

## >DM\_train993

>DM train998

>DM\_train1000

>DM train1019

>DM\_train1020

>DM train1026

MMSDQENENEHAKAFLGLAKCEEEVDAIEREVELYRLNKMKPVYEKRDAYIDEIAEFWKIVLSQHVSF ANYIRASDFKYIDTIDKIKVEWLALESEMYDTRDFSITFHFHGIEGDFKEQQVTKVFQIKKGKDDQEDGI LTSEPVPIEWPQSYDSINPDLIKDKRSPEGKKKYRQGMKTIFGWFRWTGLKPGKEFPHGDSLASLFSEEI YPFCVKYYAEAQRDLEDEEGESGLSADGDSEDDDGSLGEVDLPLSDEEPSSKKRKV

### >DM train1040

### >DM train1046

## >DM\_train1083

MEDFVRQCFNPMIVELAEKAMKEYGEDPKIETNKFAAICTHLEVCFMYSDFHFIDERGESTIIESGDPN ALLKHRFEIIEGRDRTMAWTVVNSICNTTGVEKPKFLPDLYDYKENRFIEIGVTRREVHTYYLEKANKIKS EKTHIHIFSFTGEEMATKADYTLDEESRARIKTRLFTIRQEMASRGLWDSFRQSERGEETIEERFEITGTM CRLADQSLPPNFSSLEKFRAYVDGFEPNGCIEGKLSQMSKEVNAR

### >DM train1101

GSGRVSLNFKDPEAVRALTCTLLREDFGLSIDIPLERLIPTVPLRLNYIHWVEDLIGHQDSDKSTLRRGIDI GTGASCIYPLLGATLNGWYFLATEVDDMCFNYAKKNVEQNNLSDLIKVVKVPQKTLLMDALKEESEII YDFCMCNPPFFANQLEAKGVNSRNPRRPPPSSVNTGGITEIMAEGGELEFVKRIIHDSLQLKKRLRWY SCMLGKKCSLAPLKEELRIQGVPKVTYTEFCQGRTMRWALAWSFYD

### >DM\_train1105

MSSEKERKKKIFFQRILTVVFLGTFFYSVYELGDIFMDYYENRKVMAEAQNIYEKSPMEEQSQDGEVRK QFKALQQINQEIVGWITMDDTQINYPIVQAKDNDYYLFRNYKGEDMRAGSIFMDYRNDVKSQNRN TILYGHRMKDGSMFGSLKKMLDEEFFMSHRKLYYDTLFEGYDLEVFSVYTTTTDFYYIETDFSSDTEYTS

FLEKIQEKSLYKTDTTVTAGDQIVTLSTCDYALDPEAGRLVVHAKLVKRQ

>DM train1106

MVRKGAAAKAPQQPKPKAQQQPGGRRRRRGRSMEPVSRPLNPPAAVGSTLKAGRGRTAGVSDWF DTGMITSYLGGFQRTAGTTDSQVFIVSPAALDRVGTIAKAYALWRPKHWEIVYLPRCSTQTDGSIEMG FLLDYADSVPTNTRTMASSTSFTTSNVWGGGDGSSLLHTSMKSMGNAVTSALPCDEFSNKWFKLSW STPEESENAHLTDTYVPARFVVRSDFPVVTADQPGHLWLRSRILLKGSVSPSTNL

>DM\_train1120

RSPWNRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPDPSSPAFRIEDANLIPPVPDDKFQDLVDAV RTEKGFLLLASLRQMKKTRGTLLALERKDHSGQVFSVVSNGKAGTLDLSLTVQGKQHVVSVEEALLAT GQWKSITLFVQEDRAQLYIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDNFQGVLQNVRF VFGTTPEDILRNKGCSSSTSVLLTLDNNVVNGSSPAIRTNTGHHHHHH

>DM\_train1125

APPCKGSYFGTENLKSLVLHFLQQYYAIYDSGDRQGLLDAYHDGACCSLSIPFIPQNPARSSLAEYFKD SRNVKKLKDPTLRFRLLKHTRLNVVAFLNELPKTQHDVNSFVVDISAQTSTLLCFSVNGVFKEVDGKSR DSLRAFTRTFIAVPASNSGLCIVNDELFVRNASSEEIQRAFAMPAPTPSSSPVPTLSPEQQEMLQAFST OSGMNLEWSOKCLODNNWDYTRSAQAFTHLKAKGEIPEVAFMK

>DM train1131

MADEAQAPPAEGAPPAEGEAPPPAEGAEGAVEGGEAAPPAEPAEPIKHSYTLFYFNVKALAEPLRYLF AYGNQEYEDVRVTRDEWPALKPTMPMGQMPVLEVDGKRVHQSISMARFLAKTVGLCGATPWEDL QIDIVVDTINDFRLKIAVVSYEPEDEIKEKKLVTLNAEVIPFYLEKLEQTVKDNDGHLALGKLTWADVYFA GITDYMNYMVKRDLLEPYPALRGVVDAVNALEPIKAWIEKRPVTEV

>DM\_train1150

MEEAASQSLEEDFEGQATHTGPKGVINDWRKFKLESEDGDSIPPSKKEILRQMSSPQSRDDKDSKER MSRKMSIQEYELIHQDKEDEGCLRKYRRQCMQDMHQKLSFGPRYGFVYELETGEQFLETIEKEQKVTT IVVNIYEDGVRGCDALNSSLECLAAEYPMVKFCKIRASNTGAGDRFSSDVLPTLLVYKGGELISNFISVA EQFAEDFFAADVESFLNEYGLLPEREIHDLGQTNTEDEDIE

>DM train1152

GALPSHNKASFTDEEDEFILDVVRKNPTRRTTHTLYDEISHYVPNHTGNSIRHRFRVYLSKRLEYVYEVD KFGKLVRDDDGNLIKTKVLPPSIKRKFSADEDYTLAIAVKKQFYRDLFQIDPDTGRSLITDEDTPTAIARR NMTMDPNHVPGSEPNFAAYRTQSRRGPIAREFFKHFAEEHAAHTENAWRDRFRKFLLAYGIDDYISY YEAEKAQNREPEPMKNLTNRPKRPGVPTPGNYNSAAKR

>DM train1177

GSHMQGQSPIKDQEMKELIRRSQEGDQEARDEIIEKNMRLVWSVVQRFLNRGYEADDLFQIGCIGLL KSVDKFDLSYDVKFSTYAVPMIIGEIQRFLRDDGTVKVSRSLKEMGNKIRKAKDELSKTRGRAPTVTEIA DHLGISPEDVVLAQEAVRLPTSIHETVYENDGDPITLLDQIADADEASWFDKIALKKAIEELDERERLIVY LRYYKDQTQSEVASRLGISQVQMSRLEKKILQHIK

>DM\_train1184

HVKLEQLGIPRQVLKYDDFLKSTQKSPATAPKPMPPRPPLPNQQFGVSLQHLQEKNPEQEPIPIVLRET VAYLQAHALTTEGIFRRSANTQVVREVQQKYNMGLPVDFDQYNELHLPAVILKTFLRELPEPLLTFDLY PHVVGFLNIDESQRVPATLQVLQTLPEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNLLW AKDAAITLKAINPINTFTKFLLDHQGELFPSPDPSGL

>DM\_train1197

ADNEEDVEAEEEYTELTDISGVGPSKAESLREAGFESVEDVRGADQSALADVSGIGNALAARIKADVG GLEVESETEAEVEEEGGEEAPDEDVETELQARGLTEKTPDLSDEDARLLTQRHRVGKPQFNRQDHHKK KRVSTSWRKPRGQLSKQRRGIKGKGDTVEAGFRSPTAVRGKHPSGFEEVRVHNVDDLEGVDGDTEA VRIASKVGARKRERIEEEAEDAGIRVLNPTYVEVEVSE

>DM train1203

MGNKIHPIGFRLGITRDWESRWYAGKKOYRHLLLEDORIRGLLEKELYSAGLARVDIERAADNVAVTV

HVAKPGVVIGRGGERIRVLREELAKLTGKNVALNVQEVQNPNLSAPLVAQRVAEQIERRFAVRRAIKQ AVQRVMESGAKGAKVIVSGRIGGAEQARTEWAAQGRVPLHTLRANIDYGFALARTTYGVLGVKAYIF LGEVIGGQKPKARPELPKAEERPRRRRPAVRVKKEE

>DM\_train1259

GFPERELPRPGASRPAEKSRPPEAKGAQPADAWKAGRPRSEEDNELNLPNLAAAYSSILRSLGEDPQR QGLLKTPWRAATAMQFFTKGYQETISDVLNDAIFDEDHDEMVIVKDIDMFSMCEHHLVPFVGRVHI GYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALQPAGVGVVIEATHMCMVMRGVQKM NSKTVTSTMLGVFREDPKTREEFLTLIRS

>DM train1265

MHKLIIKYNKQLKMLNLRDGKTYTISEDERADITLKSLGEVIHLEQNNQGTWQANHTSINKVLVRKGD LDDITLQLYTEADYASFAYPSIQDTMTIGPNAYDDMVIQSLMNAIIIKDFQSIQESQYVRIVHDKNTDV YINYELQEQLTNKAYIGDHIYVEGIWLEVQADGLNVLSQNTVASSLIRLTQEMPHAQADDYNTYHRS PRIIHREPTDDIKIERPPOPIOKNNT

>DM\_train1286

MKDLVDTTEMYLRTIYELEEEGVTPLRARIAERLEQSGPTVSQTVARMERDGLVVVASDRSLQMTPTG RTLATAVMRKHRLAERLLTDIIGLDINKVHDEADRWEHVMSDEVERRLVKVLKDVSRSPFGNPIPGLD ELGVGNSDAAAPGTRVIDAATSMPRKVRIVQINEIFQVETDQFTQLLDADIRVGSEVEIVDRDGHITLS HNGKDVELLDDLAHTIRIEEL

>DM\_train1297

AQVDLLNVKGEKVGTLEISDFVFNIDPNYDVMWRYVDMQLSNRRAGTASTKTRGEVSGGGRKPWP QKHTGRARHGSIRSPIWRHGGVVHGPKPRDWSKKLNKKMKKLALRSALSVKYRENKLLVLDDLKLER PKTKSLKEILQNLQLSDKKTLIVLPWKEEGYMNVKLSGRNLPDVKVIIADNPNNSKNGEKAVRIDGLNV FDMLKYDYLVLTRDMVSKIEEVLG

ANRIRLHIWGDYACFTRPEMKVERVSYDVITPSAARGILSAIHWKPAINWVIDKIYVLKPIRFESVRRNEL

GAKISESKVSGAMKRKSVADLYTVIEDDRQQRAATVLKDVAYVIEAHAVMTSKAGVDENTTKHIEMF KRRALKGQCFQQPCMGVREFPAHFALIDDNDPLPLSQLSESEFNRDLGWMLHDIDFEHGNTPHFFR AELKNGVIDVPPFYAEEVKR

WTGEDSAEPNSDSAEWIRDMYAKVTEIWQEVMQRRDDDGTLHAACQVQPSATLDAAQPRVTGV VLFRQLAPRAKLDAFFALEGFPTEPNSSSRAIHVHQFGDLSQGCESTGPHYNPLAVPHPQHPGDFGN FAVRDGSLWRYRAGLAASLAGPHSIVGRAVVVHAGEDDLGRGGNQASVENGNAGRRLACCVVGV CGPGLWERQAREHSERKKRRRESECKAA

MNVSTSTFQTRRRRLKKVEEEENAATLQLGQEFQLKQINHQGEEEELIALNLSEARLVIKEALVERRRAF KRSQKKHKKKHLKHENANDETTAVEDEDDDLDEDDVNADDDDFMHSETREKELESIDVLLEQTTGG NNKDLKNTMQYLTNFSRFRDQETVGAVIQLLKSTGLHPFEVAQLGSLACDTADEAKTLIPSLNNKISD DELERILKELSNLETLY

MAFDPNLVGPTLPPIPPFTLPTGPTGPTGPTGPTGPTGPTGPTGDTGTTGPTGPTGPTGPTGPTGATG LTGPTGPTGPSGLGLPAGLYAFNSGGISLDLGINDPVPFNTVGSQFGTAISQLDADTFVISETGFYKITVI ANTATASVLGGLTIQVNGVPVPGTGSSLISLGAPIVIQAITQITTTPSLVEVIVTGLGLSLALGTSASIIIEKV AHHHHHH

GMNLTELMERIPHLREILNIVREAFKDYDDPAHDISHTFRVMENASEIASREKCDLQKAIIAALLHDIKR PHEALTGVDHAESGAEYASGLLPTMGFDISFVAEVSKAIRSHRYSGGLTPTSLTGKILQDADRLDAIGA VAIARVFSYSGKTGTPLHSLQFSPRSSYSGNSRSSINHFHEKILKIRPETFWTETARKMAEDRYSFVVEFV ORFLAEWGOI

MTADELVFFVNGKKVVEKNADPETTLLAYLRRKLGLRGTKLGCGEGGCGACTVMLSKYDRLQDKIIHF SANACLAPICTLHHVAVTTVEGIGSTKTRLHPVQERIAKSHGSQCGFCTPGIVMSMYTLLRNQPEPTV EEIEDAFQGNLCRCTGYRPILQGFRTFAKNGGCCGGNGNNPNCCMNQKKDHTVTLSPSLFNPEEFM PLDPTQEPIFPPELLRL

MDKSESTSAGRNRRRRPRRGSRSAPSSADANFRVLSQQLSRLNKTLAAGRPTINHPTFVGSERCRPG YTFTSITLKPPKIDRGSYYGKRLLLPDSVTEYDKKLVSRLQIRVNPLPKFDSTVWVTVRKVPASSDLSVAA ISAMFADGASPVLVYQYAASGVQANNKLLYDLSAMRADIGDMRKYAVLVYSKDDALETDELVLHVD IEHORIPTSGVLPV

MRQFIISENTMQKTSFRNHQVKRFSSQRSTRRKPENQPTRVILFNKPYDVLPQFTDEAGRKTLKEFIPV QGVYAAGRLDRDSEGLLVLTNNGALQARLTQPGKRTGKIYYVQVEGIPTQDALEALRNGVTLNDGPT LPAGAELVDEPAWLWPRNPPIRERKSIPTSWLKITLYEGRNRQVRRMTAHVGFPTLRLIRYAMGDYSL DNLANGEWREVTD

MKLLILTCLVAVALARPKHPIKHQGLPQEVLNENLLRFFVAPFPEVFGKEKVNELSKDIGSESTEDQAM EDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKE GIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSENSEK TTMPI W

>DM\_train1383

MGSDKIHHHHHHMKVKKWVTQDFPMVEESATVRECLHRMRQYQTNECIVKDREGHFRGVVNKED LLDLDLDSSVFNKVSLPDFFVHEEDNITHALLLFLEHQEPYLPVVDEEMRLKGAVSLHDFLEALIEALAM DVPGIRFSVLLEDKPGELRKVVDALALSNINILSVITTRSGDGKREVLIKVDAVDEGTLIKLFESLGIKIESIE KEEGF

>DM\_train1389

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>DM train1407

KRVLKSTEMSIGGSGENVLSVHPVLDDNSCLFHAIAYGIFKODSVRDLREMVSKEVLNNPVKFNDAIL

DKPNKDYAQWILKMESWGGAIEIGIISDALAVAIYVVDIDAVKIEKFNEDKFDNYILILFNGIHYDSLTM NEFKTVFNKNQPESDDVLTAALQLASNLKQTGYSFNTHKAQIKCNTCQMTFVGEREVARHAESTGH VDFGONR

>DM train1413

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>DM\_train1417

MGRYIGPVCRLCRREGVKLYLKGERCYSPKCAMERRPYPPGQHGQKRARRPSDYAVRLREKQKLRRIY GISERQFRNLFEEASKKKGVTGSVFLGLLESRLDNVVYRLGFAVSRRQARQLVRHGHITVNGRRVDLPS YRVRPGDEIAVAEKSRNLELIRQNLEAMKGRKVGPWLSLDVEGMKGKFLRLPDREDLALPVNEQLVIE FYSR

>DM\_train1421

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVM DKQYEILCVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQ NDGPVTIELESPAPGTATSDPKQLSKLEKQQQRKEKTRAKGPSESSKERNTPRKEDRSASSGAEGDVS SEREP

>DM\_train1425

GSHMELQGHHAEKLPAGAGAPKAGLEEAPAVTAGLKIFEPPAPGEGNSSQNSRNKRAVQGPEETVT QDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSALEEKENKILVKETGYFFIYGQVLYTDKTYAMGHLIQ RKKVHVFGDELSLVTLFRCIQNMPETLPNNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFGAL KLL

>DM\_train1480

>DM train1520

>DM train1523

MNGAELIIQEINKEAERKIEYILNEARQQAEKIKEEARRNAEAKAEWIIRRAKTQAELEKQRIIANARLEV RRKRLAIQEEIISSVLEEVKRRLETMSEDEYFESVKALLKEAIKELNEKKVRVMSNEKTLGLIASRIEEIKSEL GDVSIELGETVDTMGGVIVETEDGRIRIDNTFEARMERFEGEIRSTIAKVLFG

>DM train1535

>DM train1537

>DM train1562

>DM\_train1580

>DM train1583

MHTALINHIRKFIFLTDEDAGTLSAFFQLKKVRKKETLLKTGEICRINYFVVKGCLRLFFIDEKGIEQTTQF AIENWWLSDYMAFQKQQPADFYIQSVENCELLSITYTEQENLFERIPALERYFRLVYQKSFAAAQLRSK FQHMYSKEEQYHNFSSRFPEFIQRVPQYLLASYLGFTPEYLSEIRKKYIS

>DM train1590

>DM train1596

MSTVGTGKLTRAQRRAAARKNKRNTRVVQPVIVEPIASGQGKAIKAWTGYSVSKWTASCAAAEAKV TSAITISLPNELSSERNKQLKVGRVLLWLGLLPSVSGTVKSCVTETQTTAAASFQVALAVADNSKDVVA AMYPEAFKGITLEQLAADLTIYLYSSAALTEGDVIVHLEVEHVRPTFDDSFTPVY

>DM train1623

MAALRNGLEGSSEETSFHDESLQDDREEIENNSYHMHPAGIILTKVGYYTIPSMDDLAKITNEKGECIV SDFTIGRKGYGSIYFEGDVNLTNLNLDDIVHIRRKEVVVYLDDNQKPPVGEGLNRKAEVTLDGVWPTD KTSRCLIKSPDRLADINYEGRLEAVSRKQGAQFKEYRPETGSWVFKVSHF

>DM train1630

ATGPRYKVPMRRRREARTDYHQRLRLLKSGKPRLVARKSNKHVRAQLVTLGPNGDDTLASAHSSDLA EYGWEAPTGNMPSAYLTGLLAGLRAQEAGVEEAVLDIGLNSPTPGSKVFAIQEGAIDAGLDIPHNDD VLADWQRTRGAHIAEYDEQLEEPLYSGDFDAADLPEHFDELRETLLDGDIEL

>DM\_train1644

VEVDCSRFPNTTNEEGKDVLVCTEDLRPICGTDGVTHSECLLCAYNIEYGTNISKEHDGECREAVPMD CSRYPNTTSEEGKVMILCNKALNPVCGTDGVTYDNECVLCAHNLEQGTSVGKKHDGECRKELAAVS VDCSEYPKPACTLEYRPLCGSDNKTYGNKCNFCNAVVESNGTLTLSHFGKC

>DM train1659

YVEGQRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCADRCTRNKGLPFTCKAFVFDKARKQC LWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSITKSGIKCOPWSSMIPHEHSFLPSS

YRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVCDIPQCSEVE

>DM train1665

MSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNVVVTGLTLVCSSAPGPLELDL TGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRAGVAIDATDYMVGSYGPRAEEYEFLT PVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

>DM train1700

GPHMASSSGNDDDLTIPRAAINKMIKETLPNVRVANDARELVVNCCTEFIHLISSEANEICNKSEKKTIS PEHVIQALESLGFGSYISEVKEVLQECKTVALKRRKASSRLENLGIPEEELLRQQQELFAKARQQQAELA QQEWLQMQQAAQQAQLAAASASASNQAGSSQDEEDDDDI

>DM\_train1712

SIVLEPIYWNSSNSKFLPGQGLVLYPQIGDKLDIICPKVDSKTVGQYEYYKVYMVDKDQADRCTIKKEN TPLLNCARPDQDVKFTIKFQEFSPNLWGLEFQKNKDYYIISTSNGSLEGLDNQEGGVCQTRAMKILMK VGQDASSAGSARNHGPTRRPELEAGTNGRSSTTSPFVKPNP

>DM\_train1717

HHHHHHAVMPTPSPQGEYLPDMGLGIDGVKTPHAYAGKKGKHGGPAYEMPAFTAELTVPFPPVGA PVKFDKLLYNGRQNYNPQTGIFTCEVPGVYYFAYHVHCKGGNVWVALFKNNEPMMYTYDEYKKGF LDQASGSAVLLLRPGDQVFLQMPSEQAAGLYAGQYVHSSFSGYLLYPM

>DM train1750

MTGFLLPPASRASRTGAERRCGPGPAPPPPRAEAVSVAGSRREVGLMRRRGEIDMATEGDVELELETE TSGPERPPEKPRKHDSGAADLERVTDYAEEKEIQSSNLETAMSVIGDRRSREQKAKQEREKELAKVTIK KEDLELIMTEMEISRAAAERSLREHMGNVVEALIALTN

>DM train1761

MNTDAIESMVRDVLSRMNSLQGEAPAAAPAAGGASRSARVSDYPLANKHPEWVKTATNKTLDDFT LENVLSNKVTAQDMRITPETLRLQASIAKDAGRDRLAMNFERAAELTAVPDDRILEIYNALRPYRSTKE ELLAIADDLESRYQAKICAAFVREAATLYVERKKLKGDD

>DM\_train1821

MSTDFDRIYLNQSKFSGRFRIADSGLGWKISTSGGSAANQARKPFLLPATELSTVQWSRGCRGYDLKI NTKNQGVIQLDGFSQDDYNLIKNDFHRRFNIQVEQREHSLRGWNWGKTDLARNEMVFALNGKPTF EIPYARINNTNLTSKNEVGIEFNIQDEEYQPAGDE

>DM\_train1832

LPSCKEDEYPVGSECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCLQCQMCDPAMGL RASRNCSRTENAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQRVQKGGTESQDTLCQNCPPGTF SPNGTLEECQHQTKCSWLVTKAGAGTSSSHHHHHH

>DM train1840

MQTHIKINRGELLRGIEQDHTRQLPDFRPGDTVRVDTKVREGNRTRSQAFEGVVIAINGSGSRKSFTV RKISFGEGVERVFPFASPLVNQVTIVERGKVRRAKLYYLRELRGKAARIKSDRSRVMKDAARAQQDKA NASASQAAAAQADVTVISAAPEVAPETQGE

>DM\_train1841

GPLGSKRVPIVEDRRVKQLDDITDSNTTEILTSVDVLGTHSQTGTQQSNMYTSTQKTELEIDNKDSVTE CSKDMKEDGLSFVDIVLSKAASALDEKEKQLAVANEIIRSLSDEVMRNEIRITSLQGDLTFTKKCLENAR SQISEKDAKINKLMEKDFQVNKEIKPY

>DM\_train1851

MADVLDIDNAEEFEVDEDGDQGIVRLKEKAKHRKGRGFGSDSNTREAIHSYERVRNEDDDELEPGPQ RSVEGWILFVTSIHEEAQEDEIQEKFCDYGEIKNIHLNLDRRTGFSKGYALVEYETHKQALAAKEALNGA EIMGQTIQVDWCFVKGPKRVKKSEKRRR

>DM train1906

GSDSGTLNYEVYKYNTNDTSIANDYFNKPAKYIKKNGKLYVQITVNHSHWITGMSIEGHKENIISKNTA KDERTSEFEVSKLNGKIDGKIDVYIDEKVNGKPFKYDHHYNITYKFNGPTDVAGANAPGKDDKNSASG SDKGSDGTTTGQSESNSSNKDKVE

## >DM\_train1915

MSAKKIVLKSSDGESFEVEEAVALESQTIAHMVEDDCVDNGVPLPNVTSKILAKVIEYCKRHVEAAASK AEAVEGAATSDDDLKAWDADFMKIDQATLFELILAANYLNIKNLLDLTCQTVADMIKGKTPEEIRTTF NIKNDFTPEEEEEVRRENQWAFE

>DM\_train1922

MGHLGKTRWTREEDEKLKKLVEQNGTDDWKVIANYLPNRTDVQCQHRWQKVLNPELIKGPWTKEE DQRVIKLVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEEEDRIIYQAHKRLGNRW AEIAKLLPGRTDNAIKNHWNSTMRRKV

>DM\_train1947

GSDSAITLWQFLLQLLQKPQNKHMICWTSNDGQFKLLQAEEVARLWGIRKNKPNMNYDKLSRALRY YYVKNIIKKVNGQKFVYKFVSYPEILNMDPMTVGRIEGDCESLNFSEVSSSSKDVENGGKDKPPQPGA KTSSRNDYIHSGLYSSFTLNSLN

>DM train1967

ELRPSGDSGSSDVDAEISDGFSPLDTSHRDVADEGSLLRRAEMYQDYMKQVPIPTNRGSLIPFTSWVG LSISMKQLYGQPLHYLTNVLLQRWDQSRFGTDSEEQRLDSIIHPTKAEATIWLVEEIHRLTPSHLHMAL LWRSDPMYHSFIDPIFPEK

>DM\_train1973

MSDYEEAFNDGNENFEDFDVEHFSDEETYEEKPQFKDGETTDANGKTIVTGGNGPEDFQQHEQIRRK TLKEKAIPKDQRATTPYMTKYERARILGTRALQISMNAPVFVDLEGETDPLRIAMKELAEKKIPLVIRRYL PDGSFEDWSVEELIVDL

>DM\_train2017

RRRTVVKEPLLPPDDDTRDNVYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPQY RPRPANPDEIGNFIDENLKAADSDPTAPPYDSLLVFDYEGSGSEAASLSSLNSSESDQDQDYDYLNEW GNRFKKLADMYGGGEDD

>DM train2028

1

MYHHYHAFQGRKLTDQERARVLEFQDSIHYSPRYSDDNYEYRHVMLPKAMLKVIPSDYFNSEVGTLR

SDNDDIEVESDADKRAHHNALERKRRDHIKDSFHSLRDSVPSLQGEKASRAQILDKATEYIQYMRRKN HTHQQDIDDLKRQNALLEQQVRALEKARSSAQLQTNYPSSDNSLYTNAKGSTISAFDGGSDSSSESE PEEPQSRKKLRMEAS

MDLEKNYPTPRTSRTGHGGVNQLGGVFVNGRPLPDVVRQRIVELAHQGVRPCDISRQLRVSHGCVS KILGRYYETGSIKPGVIGGSKPKVATPKVVEKIAEYKRQNPTMFAWEIRDRLLAERVCDNDTVPSVSSIN RIIRTKVOOPPNO

MQVILLEPSRLGKTGEVVSVKDGYARNWLIPQGLAVSATRTNMKTLEAQLRSIEKRQAQEKAVAEDL ASRLNGVAVELSVRAGEGKIYGAVTHQDVANSLDQLGFDVDRRKIDMPKTVKEVGEYDIAYRAHPEV TIPMKI VVHAAK

KKVVAVVKLQLPAGAATPAPPVGPALGQHGANIMEFVKAFNAATANMGDAIVPVEITIYADRSFTFV TKTPPASYLIRKAAGLEKGAHKPGREKVGRITWEQVLEIAKQKMPDLNTTDLEAAARMIAGSARSMGV EVVGAPEVKDA

SKEPLRPRCRPINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLPALPQVVCNYRDVRFESIRLP GCPRGVNPVVSYAVALSCQCALCRRSTTDCGGPKDHPLTCDDPRFQDSSSSKAPPPSLPSPSRLPGP SDTPILPQ

MSSQQNQNRQGEQQEQGYMEAAKEKVVNAWESTKETLSSTAQAAAEKTAEFRDSAGETIRDLTGQ AQEKGQEFKERAGEKAEETKQRAGEKMDETKQRAGEMRENAGQKMEEYKQQGKGKAEELRDTAAE KLHQAGEKVKGRD

>DM\_train2164

YLGSRDHFALDRPSETHADYLLRTGQVVDISDTIYPRNPAMYSEEARLKSFQNWPDYAHLTPRELASA GLYYTGIGDQVQCFCCGGKLKNWEPCDRAWSEHRRHFPNCFFVLGRNLNIRSESDAVSSDRNFPNS TNLPRNP

>DM\_train2186

MVVTCPKCGAKNRLGTPPPGQVPVCGACKTPLPWVVEADEKGFAQEVAGAPLTLVDFFAPWCGPC RLVSPILEELARDHAGRLKVVKVNVDEHPGLAARYGVRSVPTLVLFRRGAPVATWVGASPRRVLEERL RPYLEGR

>DM train2188

AKGRAGRSKRTEQDHYETDYTTGGESCDELEEDWIREYPPITSDQQRQLYKRNFDTGLQEYKSLQSVL DEINKELSRLDKELDDYREESEEYMAAADEYNRLKQVKGSADYKSKKNHCKQLKSKLSHIKKMVGDYD ROKT

>DM\_train2246

>DM train2252

GSGAMAQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLKCYCSGHCPDDAINNTCITNGHC FAIIEEDDQGETTLASGCMKYEGSDFQCKDSPKAQLRRTIECCRTNLCNQYLQPTLPPVVIGPFFDGSI R

>DM\_train2253

>DM\_train2259

MPEITRRRALTAAAAVAATASAAVTLAAPAASAAGHHEPAAPESFDEVYKGRRIQGRPARGAAHHH EHGGGYEVFVDGVQLHVMRNADGSWISVVSHYDPVPTPRAAARAAVDELQGAPLLPFPANLEHHH HHH

>DM train2270

>DM\_train2290

MPSEAKYTWDQELNEINIQFPVTGDADSSAIKIRMVGKKICVKNQGEIVIDGELLHEVDVSSLWWVIN GDVVDVNVTKKRNEWWDSLLVGSESVDVQKLAENKHADMSMLDAEAREVVEKMMHNTSGKDSE

>DM\_train2301

>DM\_train2353

>DM\_train2370

>DM\_train2396

>DM\_train2397

>DM train2429

>DM train2434

>DM train2446

>DM train2447

MAKSIRSKHRRQMRNVKREHFAKKDLDRLKRLASKAQELDLDNVVTMKSAEEIKNKPSTSASDADKG

>DM\_train2451

>DM train2486

MHTSELLKHIYDINLSYLLLAQRLIVQDKASAMFRLGINEEMATTLAALTLPQMVKLAETNQLVCHFRF DSHQTITOLTODSRVDDLQQIHTGIMLSTRLLNDVNQPEEALRKKRA

>DM train2504

ALNVSRLLLPSRVRHSYTGKMGAVFIFVGALTVLFGAIAYGEVTAAAATGDAAAVQEAAVSAILGLIILL GINLGLVAATLGGDTAASLSTLAAKASRMGDGDLDVELETRRENS

>DM\_train2580

GSHMSHLDNTMAIRLLPLPVRAQLCAHLDALDVWQQLATAVKLYPDQVEQISSQKQRGRSASNEFL NIWGGQYNHTVQTLFALFKKLKLHNAMRLIKDYVSEDLHKYI

>DM\_train2583

AVSEHQLLHDKGKSIQDLRRRFFLHHLIAEIHTAEIRATSEVSPNSKPSPNTKNHPVRFGSDDEGRYLT QETNKVETYKEQPLKTPGKKKKGKPGKRKEQEKKKRRTR

>DM\_train2597

MSESSSKSSQPLASKQEKDGTEKRGRGRPRKQPPVSPGTALVGSQKEPSEVPTPKRPRGRPKGSKNK GAAKTRKTTTTPGRKPRGRPKKLEKEEEEGISQESSEEEQ

>DM\_train2598

MDAQTRRRERRAEKQAQWKAANPLLVGVSAKPVNLPILSLNRKPKSRVESALNPIDLTVLAEYHKQIE SNLQRIERKNQRTWYSKPGERGITCSGRQKIKGKSIPLI

>DM\_train2652

MSSLPFVFGAAASSRVVTAAAAKGTAETKQEKSFVDWLLGKITKEDQFYETDPILRGGDVKSSGSTSG KKGGTTSGKKGTVSIPSKKKNGNGGVFGGLFAKKD

>DM train2665

FDLNDFLEQLRQMKNMGGMASLMGKLPGMGQIPDNVKSQMDDKVLVRMEAIINSMTMKERAKP EIIKGSRKRRIAAGSGMQVQDVNRLLKQFDDMQRMMKKM

>DM train2798

GHMHVWPVQDAKARFSEFLDACITEGPQIVSRRGAEEAVLVPIGEWRRLQAAARPSLKQLLLSDSAR TEMLVPERGKARRRQVEPLRGS

>DM\_train2800

DSKYSQTSHKLVQLLTTTAEQQLRHADIDTSCKDVLSCTGTSNSASANSSGGSCPSSHSSLTERHKILH RLLQEGSPSDITTLSVEPD

>DM\_train2805

MEKPYKCPECGKSFSQSSNLQKHQRTHTGEKPYKCPECGKSFSQSSDLQKHQRTHTGEKPYKCPECG KSFSRSDHLSRHQRTHQNKK

>DM\_train2816

MNLEPPKAEIRSATRVMGGPVTPRKGPPKFKQRQTRQFKSKPPKKGVQGFGDDIPGMEGLGTDITVI CPWEAFNHLELHELAQYGII

>DM\_train2836

GSESGDNVRSSAGAVRDAGGAFGKREQAEEERYFRARAKEQLAALKKHHENEISHHAKEIERLQKEIE RHKQSIKKLKQSEDDD

>DM train2840

NSSSNNNNNNNNNNNNLGIEENLYFQGQGSFPCCQNMKEKFNKEDTDSMSRRQTFYSNNRSPTNST GMWKDSPKSSKSIKFIPVST

>DM\_train2845

AGTTGERPFSDIITSVRYWVIHSITIPALFIAGWLFVSTGLAYDVFGTPRPDSYYAQEQRSIPLVTDRFEA KQQVETFLEQLK

>DM train2868

MATFPPATSAPQQPPGPEDEDSSLDESDLYSLAHSYLGGGGRKGRTKREAAANTNRPSPGGHERKLV TKLONSERKKRGARR

>DM_train2956
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HKKE
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>DM_train2972
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NK
111111111111111111111111111111111111111
>DM_train2990
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>DM train3000