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SEQUENCE LISTING

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<150> EP 08 160 344.1
<151> 2008-07-14
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<170> PatentIn version 3.3
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chromosome 2, reference assembly, complete sequence

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sequenece listing.TXT

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sequece listing.TXT

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| tagtagagat | ggggtttcac | catattgggc | aggctggtct | cgaattcctg | acctcagggtg | 11040 |
| attcacctgc | ctcggccccc | caaagtgtcg | gtgtgagcga | gcgcgcctgg | cctcacattg | 11100 |
| actattattt | actgaatgtc | ataaatggtc | tttctttctt | tctttttatt | tttacagtta | 11160 |
| gaatcagaat | tcgagtaagg | tccacatatt | acaatagatc | aatttgattt | attagtcttt | 11220 |
| taatctatcg | atgagttctc | ccttgcttgt | ggtctctctc | tctctgcaat | ttatttgttg | 11280 |
| aagaatgccc | atacaccttt | ttcaccttaa | tgttttttatt | aagatataat | ttacatgcag | 11340 |
| taaaatgcat | aaattttaag | tttcaacagt | tttacatttt | gacaaatgcg | tacattagtt | 11400 |
| tatccacacc | tctgacaaga | tatagaacat | ttctatcatc | ctagaaagat | ctcttggggtc | 11460 |
| cttagcagtc | agtccttcaa | ttctttgtct | tggttcctac | ccgcaacacc | aatcccaaac | 11520 |
| aactactgtt | ttgatttctt | tcatcataga | ttagttttac | gtatttttaa | gcatcaatca | 11580 |

sequece listing.TXT

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| cttactaatg | atgctgcagg | tatcagtaat | ttgttccttt | taactgctga | gtgggtattcc | 11700 |
| atgctaagaa | tagcacagtt | taattatgta | ttcactcggt | ggatgtttgg | attatagttt | 11760 |
| ttggctacta | tgaacaaaat | gctgtgaaca | ttcttacata | gacatTTTTg | tatgcatata | 11820 |
| ttttcatttc | tcttaggtaa | atacttgaga | gtagaattgc | tgagtcattg | ggtaactata | 11880 |
| tatttaactt | tataagaagt | tgcttaactg | ttcccccaac | cacttccacc | agcaatgtgt | 11940 |
| gagaattctg | gtggctttac | gttttcacca | acatttgata | ttgtcagttt | tttaaattct | 12000 |
| aaccatttta | gtggttatgt | agtggttcct | cattgtgggtc | ttaatctaga | tttccctagg | 12060 |
| gactaatgaa | ttagaggact | tttcatgtc | ctttgtgtgt | gttttctttg | gtgaagtgtc | 12120 |
| tgttcaagta | atttgcccat | tcttaaattg | tgttgtatgc | cttttttttt | cctacatatt | 12180 |
| tgtaaagatt | ctctctatat | attatgaata | caaactcttg | gtctgataca | tgtgttgtga | 12240 |
| atatattctc | ctagtctgta | gcttgcctat | taattttatt | gattcttttg | atgagtataa | 12300 |
| atttttaatt | ttgagaagtc | ataattactt | tttctttcat | ggttagtgtc | ttctttgtga | 12360 |
| tgtctaagac | atctttgcct | ccttccagga | ttgtgaagac | actttggttt | cttctagaag | 12420 |
| cttgatagtt | ttagcttttg | tttgtcttga | tccgttttga | ggtagttttt | gtctatggta | 12480 |
| tgagttacca | tagatccaga | tttatttggt | tcttttccat | acataataa | agcagttttc | 12540 |
| ccagcagagt | tttttgaaaa | tatttttctc | tttctattga | attgcttttg | tgcttttggg | 12600 |
| aaaagaaatt | gaccatatga | agtgtgtcta | tttatatata | tctattttgt | tctactgatt | 12660 |
| tgtctatcct | tatgccaata | cttgattatt | gtagttttat | agcaagtcgt | aaaattaagt | 12720 |
| agtatgactg | caagtttgat | cttttttcaa | aattgttttg | tgtcttctag | gtcccttagt | 12780 |
| atttctgcat | aaatttcaga | atcagcttgt | tcatttctat | aaaatgcctg | ttatgaattt | 12840 |
| gattgggatt | gcattgaatc | tagagattag | taggggggat | aagtgcgctc | ttaggatttg | 12900 |
| agattttaca | ctacttcaaa | ggtaacaagt | tagcctgtca | tagtttcatg | gatgctggca | 12960 |
| gaggatataa | gatgcctggg | tcagaggcag | aggactttat | tactcacagc | aatgacagta | 13020 |
| gccagaatat | tagcattttc | ttgtgccagt | tccctcagct | ccatttcaca | tgagagcaaca | 13080 |
| ctgagatggc | tgagtगत | ctgcacctgt | agcaggttgt | attatagaca | gaaatcttaa | 13140 |
| gcttagggaa | acaaatcttt | tgtgtcatat | aataagcatg | gctgctagtt | gctgaagaag | 13200 |
| aagaaactgt | ccctgttttc | caaggctgtt | cacaatacaa | atgtttttta | aagataggaa | 13260 |
| caaagggaa | atgtgtaaaa | acacaatata | ctcatagaga | actgtttcct | gacactcaac | 13320 |
| aatattatat | ctttcaacc | atgaatgtga | tatctctgtt | gttttagatca | tctgtaattt | 13380 |
| ctctcagcag | tgtgtttcag | tatagcagtt | ttgtgcatct | cttgtcaa | ttatgcctaa | 13440 |
| atattttatg | tttttttgtt | acagtगत | atatttagaa | aatattttca | ttttctcttt | 13500 |
| gttgctactg | tatggaaata | gagttaagtt | ttgtgtactg | tctttgcac | tatcctgtat | 13560 |
| ccttataaat | tcactactag | ctttggtagg | gttattttat | tttgaatcct | taggattttc | 13620 |

sequenece listing.TXT

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| acgagaagcc | tggtagattg | cttgtttaac | acagaatctt | gagtgaatgc | attagtcttt | 13740 |
| cacctttaag | tatgatgtta | gctgcatatt | tttcctagat | atcctgactc | ttaggttgag | 13800 |
| aaagcttcct | tctattccta | gtttgctgat | agtttttatg | ataacaggtg | ttgaaatttg | 13860 |
| tcagataagt | ttttgacatt | tgttgagatg | atcatatggt | ttttcctttt | cggtctgttg | 13920 |
| ttactatagt | gaatttcatt | atatgattta | aaaaaacttt | ttaaattttt | ttaatttttt | 13980 |
| tttttttttt | tttttttttg | agacagtctt | gctctgttgc | ctgggctgga | gtgcagtggc | 14040 |
| acgatattgg | ctcactgcaa | cctctgcctc | ctggtttcaa | gcgtttcttg | tgccctagcc | 14100 |
| tcctgagtag | ctgggactac | aggtgcacgc | caccacacct | gggtgatttt | tgtattttta | 14160 |
| gtagagacag | ggtcttacca | tgttggccag | gctggtctca | aactcttggc | ctcaagtgat | 14220 |
| ctgcccacct | cagcctccca | aagtgctggg | attacaggca | tgagccactg | cgtgcgacct | 14280 |
| attgtttgat | tttgaatggt | aaaccaacct | caccttcctg | gaattaaacc | ccatttggtg | 14340 |
| atgattatac | tttctatgag | ttgctggatt | caatctgcta | ctattttatt | gaagattttt | 14400 |
| tgcatgtgtg | gttatgagga | atattgttat | ataaattaat | tttaattttc | gtgttatatc | 14460 |
| cttgtctggt | tttggtatta | atgcataaat | ctataaaaaat | tttatgggaa | gtgtttgctt | 14520 |
| ttcctttata | tgctcaaaga | gtttgtgtaa | ggttggtact | attcattaga | tgttttatat | 14580 |
| tagttttctt | cgtggggggt | ttaagttaca | agtatagtca | cataggacta | ttctgatttt | 14640 |
| tgattttctg | ttgtgtcagt | tttggtgatt | tgtgtctttc | aaggaatgca | tctatttcat | 14700 |
| tttgatgact | gggtataaag | aaacttgtct | ttcattttga | taagtagaca | tcaaggaagt | 14760 |
| tgtctactca | tctaagttgt | ctaatttatt | gtcataaatg | tgtgcataat | attctcttac | 14820 |
| gttttttagga | cctacagtaa | cagtccctct | tttattttca | atacttgctt | cctctctctg | 14880 |
| tctctcagtc | tctgtcttga | tcatttttagt | tgattatcaa | ttctgttgat | cttttcaggg | 14940 |
| aagcaacttt | ttgtttcatt | gatttttttt | tttaatctgt | tttctatcat | tggtttctgc | 15000 |
| tctttactac | ttattttctt | ttacttgttt | ggatttaact | tgctctttta | aagtggaagc | 15060 |
| tttacacttc | gattttaagc | cttttttcta | aaagcattta | aaagctatac | atttctctct | 15120 |
| aagcattact | ttgctgcatc | ccacacattt | tcatgatcat | ttgattcaga | atttctttta | 15180 |
| ttttccccct | attttctttg | attcatggat | tatttagaat | tctgtagttt | cgtttttaaa | 15240 |
| catttgagga | tatttttaggt | gatttaattc | attgtagaac | atagactgca | tgatttcact | 15300 |
| tgtttttagat | tgagattggt | ttgtagccca | ggaaatgttt | tatcttggtg | aatgttccat | 15360 |
| atgtacttga | gaagaatgtg | tatttatattg | ttggttgtag | tgttccataa | aagtcagttt | 15420 |
| agctcattgg | tagtggggcc | taaatcatct | gtatcctaac | tgatagtgtg | tggttggtgtg | 15480 |
| tctttgtttt | ttctttgtcc | catctgcttt | ttgggttctt | tgattttctt | cttttgtttc | 15540 |
| ttcttctgga | ttaatcaagg | attttataat | attcagattt | atctcctctg | ttgggggtttt | 15600 |
| agctgtacct | ctttattttt | taagaggctg | ttctagggat | tacagaatgc | attctcaatt | 15660 |
| tatcataaaa | tagcaagaat | attataccac | cttacatggt | tcacatgtaa | taaaacatac | 15720 |

sequece listing.TXT

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| ttatagttat | tgtattttgt | gataatttgt | gcttcagaaa | gttattcctt | gaagaaacta | 15840 |
| agaaatgaga | aaaattaaca | tctacctgta | tattcaacat | ctacatatat | atttaccatt | 15900 |
| tttgccattc | tttattccta | cataaagatc | aaagtttaca | tctcatatca | ttttctctca | 15960 |
| gtctgaagaa | cttgatttaa | catttcctgt | attgtaggtg | tcttagtgac | aaattccttc | 16020 |
| agcttctgtt | ttcagctttt | atctgaagat | acctttatta | atctttactt | tttctatata | 16080 |
| ttttgtttgt | tcgtttagag | ataaggtctt | actctgttgc | ccaggctgga | gtccagtggc | 16140 |
| ctgatcataa | cccactgcag | cctcaaactc | ctgggctcaa | gtgatcctcc | cacctcagcc | 16200 |
| tcccaagtag | gtgggactat | aggcacacgc | taccgtgcct | ggctaagtgt | ttaatTTTTT | 16260 |
| tggagagtgt | gggtctcact | ttgttgcttg | ggctggctct | gtaccccagg | gctcaagcaa | 16320 |
| tcctcctacc | ccagcctcct | acggtcctga | gattacaggt | gtgagccacc | atgcctgggt | 16380 |
| atttaaaaaa | atatgttttg | aataatacag | ccaattctgt | ttttttaagc | tgtcactatg | 16440 |
| ttctgtatag | ccaccaaaaa | caggggaatta | gcaaatactg | aatcattgtt | cttaggggaa | 16500 |
| atacagactt | ggctcctgta | agcctcttgt | cataatattt | ttgttaacca | atcagtatat | 16560 |
| taccttgttt | tatgtgtttt | tctatttaaa | gccacctggg | gtacaaaaat | acagttggat | 16620 |
| agaaggaata | agttctagta | tttgatagta | cagtagagaa | attatagtta | atgattttatt | 16680 |
| ctatatttca | gaatagctag | aagaattgta | atgtttctaa | cacaaagaaa | agaaaaatgt | 16740 |
| ttgagggtgat | atataaccca | gtcactctga | cttgatcatt | acacattgca | tatagggtatc | 16800 |
| aaaatatcat | atgtactacc | aaaatataaa | acaactgtta | tatatcaatt | aaaaaataaa | 16860 |
| gacatcttat | ttaatatgta | ttattgattc | attaacattg | aactcatggc | caagaacact | 16920 |
| ataattttatg | cctgaaggaa | gattatctaa | catatgtttt | ctctgtaagg | cacatcatag | 16980 |
| ccttcttgty | gttaaaaaaca | ctcgatacca | tgctcagcgt | gtgcttaagg | gccatatgaa | 17040 |
| acagggaagt | cagtggcaga | gctgaaacaa | gaaggcggtg | gggttacctt | gttccatctc | 17100 |
| agctgggaac | ttgtactttg | gatgaccgcg | tctggtttgc | ctgctctgct | cattgcatgt | 17160 |
| cctgaaagtg | ctgcaagtat | ggattttggg | gctacaaatt | tagtgagcag | gtaaattgagc | 17220 |
| aaataaggaa | tccatgaata | atgaggatca | tctgtatata | attttagatt | gtcagttttt | 17280 |
| tcataacttt | aaaggcgttc | attacctttt | ggattacatc | aatgagaggt | gaggtcattc | 17340 |
| ttattgttgt | ttacctgctt | ttttcctctg | actgttttta | gggttgctct | tatctttgat | 17400 |
| tttcagtttg | acccttatgg | tgtgcctttt | tgtggtgttg | tgtttattct | gcttgagta | 17460 |
| cattgagctt | tgtggctctg | ttggttggtg | ttttcaaaat | gccaacttct | gtccaatttt | 17520 |
| aggccatttt | ttcttttttt | ttttttttta | cttcttcagt | cttttttaaa | gagacagggg | 17580 |
| cttaactgtg | ttgtccaggg | tggagtgcag | tggcgtgatc | atggcttggt | acagcctcaa | 17640 |
| actcctgggc | ttgagtgatc | ctcccatctc | agcctcctga | gttgctagaa | ctgcacgtgt | 17700 |
| gcaccactac | accggctaata | ttttaagttt | tttgtagaga | tagggctctca | ctgtgttgct | 17760 |

sequenece listing.TXT

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| tgggggttaca | ggcatgagct | cccatgcctg | gccactgttg | ctttttttaa | ggggactgca | 17880 |
| attataggtta | ttttaactcc | ttgattgtct | ctcagcactg | aggctctgtt | ccttttttca | 17940 |
| cttgcccttt | tcccttggtg | tgtttcagtt | tggatacttt | ctgttggtgt | tttttaagtt | 18000 |
| tgtttatcaa | taaatctttt | tttctgtatt | gtctaactctg | cctttaagct | catctagtga | 18060 |
| ttattttcag | ttaatataat | ttacaattct | agcatctcca | tttggtcctt | tagtctatat | 18120 |
| ttctccacca | agattccctg | tctactctat | atgtctgtct | ttttctgtac | ttaatatctt | 18180 |
| aatagctatt | ttaattttca | ttttaatatt | tgctaatacca | ggccagggtgt | gttagttcac | 18240 |
| acttgtaatt | ccagcacttt | gggaagctga | ggctggcgga | tcacttgagg | tcaggagttt | 18300 |
| gagaccagct | tggccaacgt | agtgaacccc | gtctctacta | aaaacacaaa | aattagcttg | 18360 |
| gtgtgatggc | agacacctgt | aatcccagct | actcagaggc | tgagggtggga | taattgcttg | 18420 |
| aacctgggag | gtggagggtg | cagtgaacca | agatagcccc | gctgtactcc | agcctgggtg | 18480 |
| acagagcaag | actccgcctc | aaaaaaaaaa | aagtgcgaat | ccaacgtcta | cgttatttgt | 18540 |
| ttgtttatat | ttgctattct | ttcttattta | tggtcatatt | ttcttgctgc | tttgcatgtc | 18600 |
| cattaattta | ttttatactg | catgtcatgg | atgttggtgt | tttaactttg | ttctggcagg | 18660 |
| cagttaattt | gctggaaaat | cattttgatc | ctttcaagtt | ttgattttta | agttaggggtg | 18720 |
| ggtctagagg | taggggtctg | cagacttaca | gggccagtta | gagtaaatag | tttaggcttg | 18780 |
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| agtattgtaa | ttagatatga | tttaaatgcc | tcttttctcg | tatgtgaaat | gggggtaaca | 19560 |
| gtagtaccta | ccttacaggg | tagttttgag | aacagaatga | acatctgaaa | caaagtgtgcc | 19620 |
| ggctcagcac | agtacctgtc | ccacattaat | gtttctataa | atgttggttac | attgtaaaat | 19680 |
| agaagcaatt | gatcaatgca | atatttctgc | taattacaag | gtattttactg | ggtgacgatt | 19740 |
| taccttgttt | caggagaact | aacttgaggg | gctgatacag | taagaaggat | tgcaccagtt | 19800 |
| gcacttgtag | ataaatacat | ccttcagaag | atgaagcaca | tctcgtgctt | tgaggaagcc | 19860 |

sequece listing.TXT

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|-------------|-------------|-------------|-------------|-------------|------------|-------|
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| tctggcctcc | tagttctgtg | acttagggca | agttgtttct | tcttttttct | ttccctctcc | 19980 |
| ctccttcaca | acatttttag | gtgggtactc | ttattatcct | tatttttaca | gtttcattag | 20040 |
| gcacagaaag | gctaagagtt | acagttgtaa | gtgatggatt | tgtgatttgg | acttaggcaa | 20100 |
| ttcaatttca | tgatctgtga | ttgctttatt | aggagtctga | actgtattct | tgaagtccca | 20160 |
| gaagatagtt | aactattctg | gattttttta | aagagctttt | agaaatgtag | tacttgtttt | 20220 |
| atgggtaact | ggatcgaatc | ccattttaca | aaatgaagat | ttttcttttt | ttcttaaaca | 20280 |
| taatgaatct | ttgaaatacc | aatttgaaaa | cttttttact | tagaaaaatt | ccaggaatat | 20340 |
| agtttttatt | ataaaaagatt | attgcactag | gtaggaataa | gagtacagta | cattaaaaaa | 20400 |
| atactttaaa | attatggcac | aaatttagat | gtagtttggt | ttcccactaa | ctttaacagt | 20460 |
| aatatatgtt | tctagttcac | tttccagata | gactagcctc | tgaattagtg | gcttttaact | 20520 |
| atattgtcta | gataaaaaag | acaaccattt | tgtaagaat | tggttaactg | ttatttagat | 20580 |
| ggagcagctg | cgtaattatt | tggttctgct | ctttgaccct | caaatttcag | ttttatacaa | 20640 |
| gctaataatt | cattatttta | gctgaaggga | actttccttc | atttttacaaa | tgagaaactg | 20700 |
| taatttaaga | tcacatagca | agtaatcttt | taaatatgtg | tacacatata | tatgcacttt | 20760 |
| atttaaaaaat | cttataagcc | attatgttac | ccctttgact | ggatagccca | tcctacctag | 20820 |
| tgctctaggt | tggaggaaac | ccttttaaac | acacatcata | aatttcccgt | catcaccttc | 20880 |
| atctaggaat | cctttaagta | tgacttcatg | cccagtatat | atztatctaa | aatatataag | 20940 |
| accttgtaga | gttagctctc | ctaattcatt | aagggttaata | tgcttggaag | acaagtccgt | 21000 |
| attcatgtta | gctacatttc | ttggattttt | atctgttttg | atcagccttg | tctagcttgt | 21060 |
| ccatccagat | gaaattgtct | aaattttatta | ggttctctct | gttaaaggaa | tatcaccttc | 21120 |
| cagtcacttc | tcaggctggt | tcaaattgtc | tgatggtaga | ggcctttctc | tagtgtaaac | 21180 |
| catggaagat | ctttagctta | ggatctccca | actgcaggta | caagatgaca | ttgtacaaag | 21240 |
| ttaatattac | caatatagag | tgtattagtt | agcttgggct | gccgtaacaa | aataccatag | 21300 |
| gctgggtggc | tgaacagaaa | tttacttctc | acaattctgg | aggctggtaa | gtctaagatc | 21360 |
| aagggtgctg | caaggtagat | ttctttttga | ggcctcttct | cctggcttat | aggtgaccac | 21420 |
| catctcactg | tgtgcacaca | tgacctcttg | tgtgtgcctg | gggagacagg | gagcatgaca | 21480 |
| gcaagctctc | tggtgtctct | tcttgtaagg | gcattaatcc | ccttggccca | gggccccacc | 21540 |
| ctgactgcat | ttaaccctaa | tcacctccca | aagtcccat | cttcagatac | tatcacttta | 21600 |
| ggggttgggg | ctttaacatg | agttttgtag | gaaatataag | cattcagttc | tgtaacatac | 21660 |
| agtgattaag | gaaatgggct | ctggaattga | attgccttag | tctctcactt | actagttgtg | 21720 |
| tatacaataa | acaagtagcc | ctcacttagg | ttaattttta | gcaaaaccaa | taatggtgtc | 21780 |
| atcctaaagg | cagttaattt | tttttttttt | tgtatttttg | actctggcat | ttggacattg | 21840 |
| gcacaggact | aatgtcttca | aagagcaatg | tacaatgact | gtaacaactt | agaatgtaag | 21900 |

sequece listing.TXT

| | | | | | | |
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| agaaaatgca | taattccttta | aaagtgtttc | tttaaattga | atatatgcca | ataacaaaag | 21960 |
| attaaacatt | tgtagtgtgt | aattgtattc | aaattcagct | ttttgttttt | ggcctgaata | 22020 |
| gaacaagaca | atttacctat | gtgaaaacct | gagtgaagc | ttgggatgtg | atatgttaag | 22080 |
| tagaacagta | ttttaagcc | actttgattc | ataagtttct | ttaacataaa | caggttgtat | 22140 |
| tgcctcttga | aaaatgatag | gttctatgga | taacatttaa | ttagctttat | aatacatatg | 22200 |
| atgatttaac | ctgaattaat | ggtactactt | tttctgactt | ccttttgatc | ttggcccttt | 22260 |
| ctctgtaaag | ttttttgtta | acttattaca | aactgaaccc | tggcttgctc | ctcttatctt | 22320 |
| tagtctcctt | tcaatctgtc | tttatttctg | ctgaggttat | attctatttg | tttttcagat | 22380 |
| gagacccttt | ttgctcttcc | tgctgcatct | gagcctgtga | tacgctcctc | tgcaggcaag | 22440 |
| ttctttctgc | cagcctttta | tcctctctgt | attctaactt | taactcttta | gtgtgttaac | 22500 |
| actatgcaga | gtagtttggg | tttactaaaa | attagcatgg | ttccgagaat | gttttgtcta | 22560 |
| ctggaaaagt | tgaaatgtgc | attttatatg | gtatgcccaa | gggaaaaatg | agcaaaatct | 22620 |
| gatgaatact | tggaagtaca | taaggaattc | ttggaccctt | gaattacatt | tacatattta | 22680 |
| ccattccctt | tctccaaata | cagtttgagt | atagccagaa | aggctttcct | gtaaataaat | 22740 |
| accagtctat | ggcatttacc | cagtgccctt | tctttcctat | gctgtcaccg | aaactctttt | 22800 |
| cacagatatt | cttctcttct | ctaaaactag | ctattagtat | cttagttgat | aacatttgag | 22860 |
| gtttactcag | acttgatttg | tctttgcaca | gcatgtaatt | gcctctgtag | ccatgcatat | 22920 |
| gttatattta | caatagctta | atattttcag | taatgattga | agtctactct | attgttactt | 22980 |
| attaattgct | attaacattt | catttttagta | aacagtaagt | ctttactaac | actatttttg | 23040 |
| atctgtcata | aaacttgcatt | taactctgag | aacactggca | ttctctaact | ttcctttctg | 23100 |
| tccatggtca | cagaaaatat | ggacttgaag | gagcagccag | gtaacactat | ttcggctggt | 23160 |
| caagaggatt | tcccatctgt | cctgcttgaa | actgctgctt | ctcttccttc | tctgtctcct | 23220 |
| ctctcagccg | cttctttcaa | agaacatgaa | taccttggtta | atttgtcaac | agtattaccc | 23280 |
| actgaaggaa | cacttcaaga | aaatgtcagt | gaagcttcta | aagaggcttc | agagaaggca | 23340 |
| aaaactctac | tcatagatag | agatttaaca | gagttttcag | aattagaata | ctcagaaatg | 23400 |
| ggatcatcgt | tcagtgtctc | tccaaaagca | gaatctgccg | taatagtagc | aaatcctagg | 23460 |
| gaagaaataa | tcgtgaaaaa | taaagatgaa | gaagagaagt | tagttagtaa | taacatcctt | 23520 |
| cataatcaac | aagagttacc | tacagctctt | actaaattgg | ttaaagagga | tgaagttgtg | 23580 |
| tcttcagaaa | aagcaaaaaga | cagttttaat | gaaaagagag | ttgcagtgga | agctcctatg | 23640 |
| aggagggaat | atgcagactt | caaaccattt | gagcgagtat | gggaagtga | agatagtaag | 23700 |
| gaagatagt | atatgttggc | tgctggaggt | aaaatcgaga | gcaacttgga | aagtaaagt | 23760 |
| gataaaaaat | gttttgacaga | tagccttgag | caaactaatc | acgaaaaaga | tagtgagagt | 23820 |
| agtaatgat | atacttcttt | ccccagtacg | ccagaaggta | taaaggatcg | ttcaggagca | 23880 |
| tatatcacat | gtgctccctt | taaccagca | gcaactgaga | gcattgcaac | aaacattttt | 23940 |
| cctttgttag | gagatcctac | ttcagaaaaat | aagaccgatg | aaaaaaaaat | agaagaaaag | 24000 |

sequece listing.TXT

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| gcagcacagg | attctgagac | agattatgtc | acaacagata | atttaacaaa | ggtgactgag | 24120 |
| gaagtcgtgg | caaacatgcc | tgaaggcctg | actccagatt | tagtacagga | agcatgtgaa | 24180 |
| agtgaattga | atgaagttac | tggtacaaag | attgcttatg | aaacaaaaat | ggacttggtt | 24240 |
| caaacatcag | aagttatgca | agagtcactc | tatcctgcag | cacagctttg | cccatcattt | 24300 |
| gaagagtcag | aagctactcc | ttcaccagtt | ttgcctgaca | ttgttatgga | agcaccattg | 24360 |
| aattctgcag | ttcctagtgc | tggtgcttcc | gtgatacagc | ccagctcatc | accattagaa | 24420 |
| gcttcttcag | ttaattatga | aagcataaaa | catgagcctg | aaaaccccc | accatatgaa | 24480 |
| gaggccatga | gtgtatcact | aaaaaaagta | tcaggaataa | aggaagaaat | taaagagcct | 24540 |
| gaaaatatta | atgcagctct | tcaagaaaca | gaagctcctt | atatatctat | tgcattgtgat | 24600 |
| ttaattaaag | aaacaaagct | ttctgctgaa | ccagctccgg | atttctctga | ttattcagaa | 24660 |
| atggcaaaa | ttgaacagcc | agtgcctgat | cattctgagc | tagttgaaga | ttcctcacct | 24720 |
| gattctgaac | cagttgactt | atttagtgat | gattcaatac | ctgacgttcc | acaaaaacaa | 24780 |
| gatgaaactg | tgatgcttgt | gaaagaaagt | ctcactgaga | cttcatttga | gtcaatgata | 24840 |
| gaatatgaaa | ataaggaaaa | actcagtgtc | ttgccacctg | aggaggagaa | gccatatttg | 24900 |
| gaatctttta | agctcagttt | agataacaca | aaagataccc | tgttacctga | tgaagtttca | 24960 |
| acattgagca | aaaaggagaa | aattcctttg | cagatggagg | agctcagtac | tgcagtttat | 25020 |
| tcaaattgatg | acttatttat | ttctaaggaa | gcacagataa | gagaaactga | aacgttttca | 25080 |
| gattcatctc | caattgaaat | tatagatgag | ttccctacat | tgatcagttc | taaaactgat | 25140 |
| tcattttcta | aattagccag | ggaatatact | gacctagaag | tatcccacaa | aagtgaattt | 25200 |
| gctaattgcc | cggatggagc | tgggtcattg | ccttgcacag | aattgcccc | tgacctttct | 25260 |
| ttgaagaaca | tacaacccaa | agttgaagag | aaaatcagtt | tctcagatga | cttttctaaa | 25320 |
| aatgggtctg | ctacatcaaa | ggtgctctta | ttgcctccag | atgtttctgc | tttggccact | 25380 |
| caagcagaga | tagagagcat | agttaaacc | aaagttcttg | tgaaagaagc | tgagaaaaaa | 25440 |
| cttccttccg | atacagaaaa | agaggacaga | tcaccatctg | ctatattttc | agcagagctg | 25500 |
| agtaaaactt | caggtaatcc | aatctatatg | cagttttgtg | ctttcatgcc | acttttggat | 25560 |
| ttagggaaca | ttccactaca | ttttgtgttt | tatattatgt | ttatagtgtc | tcatatgtca | 25620 |
| cattggtaag | aagtcttctc | cactttttca | gttaaagggt | ttagtgcttt | ttctaactct | 25680 |
| cttgcactca | gcattcaccc | ttaacttttc | cacacagtta | cacttttata | ttgcactatg | 25740 |
| gaactattaa | tagaaaatat | ttttgtttat | agaattggc | tttagtacct | atttctttct | 25800 |
| ttctttcttt | tttcacttgt | gtttcttgat | aacatgaaga | gcaagagata | ttaaaatatt | 25860 |
| ttcagatgtg | ttttgtttat | cccagaaatt | accatattta | atttttaaag | aaaatttcta | 25920 |
| tagtatgttt | taaatatttc | tatataatat | agtacttttc | cagtggtagg | tataaagtta | 25980 |
| ggcatattga | gtgtagacat | tttgttgaaa | agtataaaat | gagttatgct | attatgaatt | 26040 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| cttttgaaaa | gtaccgattc | tccttttttt | cttttgacta | tccattttcc | acatacctga | 26100 |
| tttgcataag | gtgatttgca | caagggtgatt | tgcacatgtg | ctctttatta | gcattctgat | 26160 |
| ttagctgcgt | tttctctaaa | atagtgatta | tgataaattt | actgaatata | cttatgtatt | 26220 |
| taagtgctgg | tgcttcagca | gtacagtcca | gctcatcacc | attggaacag | tggtagacca | 26280 |
| gttgctgtaa | tctaagaaa | aggagattat | gaacattcag | gcagtgggat | gagcacagag | 26340 |
| acataggact | tggtgtttga | cggataggga | cataaaggat | gaggggaaga | ggtaaagatg | 26400 |
| accccaggaa | ccctggattt | catttctggc | atgtgcactt | gtatgggtgg | cagtatgaga | 26460 |
| aactgagata | gggaacatga | gagattaaag | taggtttaag | agggaagata | caaatttggt | 26520 |
| tttgatatg | ttggtattga | tgtacatacc | tctaagatat | ccagtaagtt | atggatatta | 26580 |
| tacacatgaa | gctcttgaga | gagatcttgg | ctgtatgtgt | ctgtcatggg | cttagagata | 26640 |
| gaaattaaag | ccccagatac | caattaggaa | gaatcaagag | aagaggacta | cttgaagggtg | 26700 |
| gaagaaatgg | tcaaaattat | caaatactgg | agaggtcagt | taaggattgc | aagttggtca | 26760 |
| aaaaggaggg | aagatattgt | catgacagcg | gcaaattggtg | tggtgtgcat | gggcatggct | 26820 |
| aggattgaga | agtgaatgag | acttgagtaa | gtggttatta | aatgttgatt | actcttaaga | 26880 |
| agtttgagat | ttttattgga | gaaaaattaa | aatattagca | agcaggaagg | agagtatgca | 26940 |
| gtggaggtag | gacttttttt | ttaagggtggg | aaggggaaaa | tctgattaca | ggtgctggca | 27000 |
| gaaagtcaga | aggggatggg | gatgtgctgc | ctagttcagg | tggaagaatt | agtgttagag | 27060 |
| agaaggaacg | atagagcttt | gattgtagtg | agtggaaagg | aaagtatggg | gtattgatac | 27120 |
| tgtaggggtt | ttgtgactga | aagttgaggg | aattatttga | tggtttatgt | ttgttcttta | 27180 |
| aagcagtatg | ttagttcatt | tgctgggaat | gaagtagatc | atgcttgggt | ggaagagatc | 27240 |
| tgcaatacct | ctgactaggg | aaaccaaagg | cattgtatta | ggagccta | caaggttgaa | 27300 |
| aggtgggtcta | aatggtaggg | tgacttttct | ttgattgtgc | caaacaacct | aggtatgggt | 27360 |
| tcaggggaagg | caaatgattg | tattgattca | aggatgtgtt | ttggcagggtg | ggccctgtgg | 27420 |
| aaggacagta | agtcaagaaa | gttgaggggtg | atagcaggag | agtaatttga | agtgatggac | 27480 |
| tgtggcatct | aagttgaagg | atgtgaatag | aaaaaggtag | gagaggtagg | aggagagtag | 27540 |
| atggtcagtg | aactcaaggc | ccagattagg | tttaagaacc | aatagtagta | ggaataaata | 27600 |
| catgccagaa | tgataggaga | ttgtggtcaa | agtaggggag | agaaagaatg | catgtgcggg | 27660 |
| agagcagggt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gttgatgtt | gaatttagaa | 27720 |
| tttcagagga | atagcagttc | aggttgatta | taatggccag | tgtaggcca | tcaggcaaag | 27780 |
| gcctactgtg | tagtcagatt | aagattgcta | gaggtgaggt | caagtaaact | atgaggccat | 27840 |
| gatactgtat | tgcacttcta | cctaacattg | aagtcaccca | gggtgatggc | aggactaggg | 27900 |
| gtggagagga | atactggggg | tagagtcctt | ggtaaagggc | agtgaggtaa | ctggcaggat | 27960 |
| ggtaggtaga | agaaatgagg | aaggacagag | aatgacgtag | cggaatagcc | aagacttttg | 28020 |
| cccaagggtct | ctgaaataaa | agtctggaag | cagcattggt | gagcagaggg | tactgacctc | 28080 |
| cccactcctc | ccttaggtgt | gtagaatatg | agagaacgat | ttagccttca | tttagcaagt | 28140 |

sequece listing.TXT

| | | | | | | |
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| tccacaggga | aaccagtatc | ttcaaggaac | agccaggttt | tagtgaaggc | gaggtaaagg | 28200 |
| caggaatgtt | cagtaaagat | gttgaggagt | agaggagctg | gttcacagtg | gaatgggggt | 28260 |
| ttcaaacagc | acagtaaaat | ggtttaggag | ggaacagtag | aaagaagggt | ctcagaagcc | 28320 |
| cagagcagct | tggtgatgac | tgggtgaaga | gcaaggagta | atcgggtgtag | caacaccttt | 28380 |
| gaagtctccc | ctccccgcta | gtgcttcctc | ccaaaactta | aagctagcag | tcctctagta | 28440 |
| gatggtggcc | cttaggaatt | tcagtatttc | aggagtcacc | tatttcttgg | attgtttttg | 28500 |
| ttaaacctgg | gaaatctata | gcctaatagt | ttagaagtaa | gggaagaaaa | gggggcattg | 28560 |
| cctttgaaag | cttaatggga | atggtggaag | aaagtgtaa | caatgcttgg | gcattctctt | 28620 |
| ttagaatatg | tttatctccc | ttctctgaga | aaattgttat | ttcctgcctt | tttgacttaa | 28680 |
| ccttttttga | tattagttaa | catagcaact | tactagggaa | tagagaatta | tttagataca | 28740 |
| cccaatatat | atattctaca | aaagttgttg | gaaggaaacc | cagtattgct | ataatgaaaa | 28800 |
| caatataggt | gacctgaggt | tttagtcttg | gctataccac | tgacaatcac | tttgtttctc | 28860 |
| tagatgtcat | tttctttttc | tataaaagga | aggggtggatt | agctcaagtc | cttgcaactt | 28920 |
| aataattttc | ttgacttgat | tatataacag | gcattctgta | aaagcaggta | agtagtggcc | 28980 |
| agtcacaatg | gcttacgcct | gtaatcccag | ctttcagggg | gggagagggtg | ggaggatagc | 29040 |
| ttgagcccag | gagttcgaga | cctgcctggg | caatatagtg | agactccgtt | ctccacaaaa | 29100 |
| aagggagaaa | aaaaagacaa | aaaaaaaaaa | aagtgtaaaa | gcaggtaaga | gttgcttttaa | 29160 |
| catgcttcta | tcaggcacta | tatgagattt | ttttttggcg | ggggggggcag | ggaaaaagat | 29220 |
| gaaactaaga | caaagttttg | cgctttatgc | aacttacagc | cagctggtac | agacacactg | 29280 |
| ttgaggacat | agttaaacad | tgtgatctat | gttatagtga | ggatagggtac | ttacctgtgt | 29340 |
| atcttcgtga | aagggagggt | caagtgtact | gaagtcaaat | gtaccaaaaat | acagcagtg | 29400 |
| tctgataaaa | cataagggaa | gctctcttct | cagatgactt | aaaagtttta | tgccatctct | 29460 |
| aattatgaaa | tatttaagt | tgtttttaaa | aaaattcttg | gtcttattaa | tgtatatgca | 29520 |
| tttaaacatt | taaactatta | aataataaaa | tactaatttc | ctcagatcat | ttattatctc | 29580 |
| atatgttctt | cttttctttt | ttcgagacag | gttcttgctg | tgctgcccag | gctgaagtgc | 29640 |
| agtggtgaga | ttatggctca | ctgcagcctc | aacctcccag | ggtcagggtg | tcctcagcct | 29700 |
| cccaagtagc | tgggaccaa | ggctcgtgtc | actatgcctg | gctaattatt | tttgtagaga | 29760 |
| ggaggctctg | ccttgttgcc | taggctgggtc | tcaaactcct | gtgttcaagg | atcctcccgc | 29820 |
| ctctgcctcc | caaagtgtg | ggattacagg | tgtgagcctc | caggactttc | ctgttcttgt | 29880 |
| tttcttaaaa | tgacattttg | taggcagaaa | tcagtttttag | ttttgggaag | aaagattgat | 29940 |
| tttgcaagag | agatgaataa | ggtattgtga | tgcagatggg | gctttattaa | ttttgggaag | 30000 |
| taaagtttgt | caagaaacta | atgaattctg | gtcttcctcc | ccctccattt | acaaagaaat | 30060 |
| ttgtgacaaa | ctatattctt | actattggaa | tgtaaatact | gatttttttt | ctcagtagta | 30120 |
| gtatcaatga | atgttcttgg | catttcccca | atgaatgttc | ttggcatttt | ttttttcca | 30180 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-------|
| aaaattgatt | ggctatagat | atgttaatta | atctctgggt | tatctgttct | gttccattgg | 30240 |
| tctgtgtttc | tgtttttatg | ccagtaccat | gctgttttgg | ttactatagc | tgtgtagtat | 30300 |
| attttgaaat | ttagtagtgt | gattccgcca | gctttatttt | tgttcaggat | tgcttttgct | 30360 |
| ttttggagtc | ttgtggttcc | atacagattt | taggattttt | tttcctattc | ctgtgaagaa | 30420 |
| ggtcattggg | attttattag | ggattgcatt | gaatctgtag | actgctttgg | atattacggc | 30480 |
| cattttttaa | caatgttaac | tcttatgatt | catgaacatg | gaatgtcttt | ctttgcattt | 30540 |
| gtttgtatcc | tcttcaattt | ctttcatcat | tgttttgtag | atctcctcgt | agaagtcttt | 30600 |
| cacctccttg | gttaaactta | ttctgaggta | ttttttttta | agctattgca | aatggagttt | 30660 |
| cctacttgat | ttctttttca | gctagtttgt | tgtttgtgta | aagacatgcg | atatttttgt | 30720 |
| tattgatttt | atatcctgca | actttacaga | atttacaagt | ttttggtagt | ctttaggttt | 30780 |
| ttctttatat | aagatcatgt | catctgcaaa | cagggacaat | gtgacttcct | cttttcta | 30840 |
| ttggatatcc | tttatttctc | tcttgctcaa | ttgctctggg | taggacttcc | catttcagtc | 30900 |
| tttatttatt | tgttatgaca | ttagcagttt | taaagaacac | agggcctctc | ttccccgac | 30960 |
| tttataatag | aacattcctc | ctagtggatt | tgtccgatgt | ttcctagtga | ttaatttgag | 31020 |
| gctatgggtt | catttatgat | actgtataga | tgatgatgtg | tccctctcat | agcaccactt | 31080 |
| ctagagtatt | ctgctattca | tcagtccctc | actggttatg | ttaattttga | ccgtctgggc | 31140 |
| aagatgagct | ctgatttcct | tatattgtct | ttgtttctcc | cttgcatgat | ataagcagtc | 31200 |
| tgaggagtga | cacttgaaca | catgcagata | tcctgctccc | tatcaaaatt | cgcccccca | 31260 |
| atttagtaaa | ccattgatga | ttcttgcttg | atccagtcct | taccatgaga | gttgaaaaat | 31320 |
| gattttaact | ccagtactcc | ccgtacattt | ttcatttgac | cctcagcatt | cctgtttaag | 31380 |
| cagcagacct | ccatttccat | taatgaatta | attagcta | taattatcag | tatggatccg | 31440 |
| tgaatttcca | ttttctttcc | aatggtttat | gattcattac | tgaactttat | tattttggtg | 31500 |
| gtaaattatt | gcataatttg | agggttcctt | caggtaggct | cagggacatg | caaccttctt | 31560 |
| tctttggggt | tgggagggga | gcatttctta | ctttctagcc | taacaaaata | ttgtaggcct | 31620 |
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| cttttaaatgt | agaatgagag | gtcattttca | taatagttag | gtattaaaga | tcaagagcta | 31740 |
| gatgctagtt | gtggtcattg | ctactgtggg | gatctttcca | ttttaaccct | ttcagtggat | 31800 |
| aaagctagga | aatgcttata | tacatacata | aaaataaaca | tacacacata | cacatacata | 31860 |
| cttaagaaat | gagttcacat | agatacctct | aattctaata | cattctcaca | gggtttgttc | 31920 |
| tttctttcct | gatttcatat | ttgtctcttc | ttttatagt | agaaccctgg | ttcctaagac | 31980 |
| caccaataca | ttatttatat | ccagtccttt | aatacaccta | taagagtttt | agaatgcttt | 32040 |
| tttcatatca | ctataataaa | aaaaaaactt | gataaaagag | ttctggattg | tttgcaaata | 32100 |
| cctactctgc | aaccctgcct | aagatggaat | gtatatagtc | aaatacatta | ttcacagatt | 32160 |
| acttgattta | gtttgttctt | ttttcttttt | cctgcgtcct | tctcccactg | actaatggct | 32220 |
| atgatattca | tttgaaatac | aattagcttc | atgtgtttca | gttctagatt | ttctttctcc | 32280 |

sequece listing.TXT

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|-------|
| cagttttagg | tttttaactg | agaattttta | agtgttgaga | aaagctgaat | tcttctcatt | 32340 |
| ttatctggaa | aggggaagact | atcattttatg | gaacatcttc | tgaccaacaa | gcactctcac | 32400 |
| atatttgttt | catttaggtc | ttcaccataa | tctgaaagaa | ggaaccattt | tatagatgat | 32460 |
| aaaatctaag | cctaaggatg | ttaagtaact | ttttcaagga | tacctggtaa | attatgtaat | 32520 |
| aagcacaatg | tttttgagct | tctgccgtgt | ttcagacatt | gggctaactt | cttatttgta | 32580 |
| ttagtgttta | cctagtttca | caagaatgaa | ctgcgattcc | aactcagggt | ttgtccgttc | 32640 |
| acagttattt | cctggttttg | gaataagcag | ttattgtcct | aacttttagca | ggcaatcaag | 32700 |
| gtgctactgc | ttttatcata | tatctgttgt | gttgaaccat | taggcaatgt | aagacatttc | 32760 |
| ttgacatctt | aagatgtcaa | gaaagttggt | tgccatctac | atcttctcac | atatgtaagg | 32820 |
| atattggaac | tagggtaaca | ttctgttgct | agtatgtgga | gactgaaaaa | ccctactttg | 32880 |
| gacaactgct | atcatctggt | tatgttggtg | ggccattggt | acagaaaggt | gctcatgttt | 32940 |
| cctgtccaaa | ctgctgagat | cttgacttaa | tgataactta | atatatgttt | gttggttgct | 33000 |
| tgtcactaat | gcacagagaa | tatttttagt | tcgtaatcga | aatatagatt | gtgtcttgct | 33060 |
| gaactaattg | gaactattgg | taagtgaagt | gtaaaccgac | catacattga | ttatttgttc | 33120 |
| attataatta | aactatgtaa | taccaggat | tcaccaagta | gtattaccat | gatcactcac | 33180 |
| tttaaaaggg | cttgtttgct | taggtaaata | gtacgaaatt | agctttgcaa | acttatatat | 33240 |
| gttcatgaat | aagaacttac | atatgttcat | gaataagaat | tgttttgata | ttcttacgac | 33300 |
| ttaaaatatt | tttctgaaaa | agtatatata | gcctttgagt | ttttttactg | aagtactgta | 33360 |
| gatactaaga | gttgatattt | tgtttaaaat | atatttttat | tgagcaaata | atatttgtaa | 33420 |
| aattttgatg | taagttggac | tttattatga | taagtagtta | atcttaactg | gaaggctatc | 33480 |
| agtagatgta | caatgtagct | aaattagaac | ctgactcttg | ttaataaagg | aaacgattat | 33540 |
| atttactttt | taaaaagtga | cattgttaaa | ttagttagga | tttatttagt | gcttactgtg | 33600 |
| ggccaatac | agattgaaaa | taaatatgta | ccataaaaaa | gagatacctg | ctaaatataa | 33660 |
| tgtggttaaa | taacttaatt | ttaggcattt | tacagacctg | agttctaatt | ctgacccttt | 33720 |
| cactgattta | gctgtatgac | ccttggcaaa | tgttttaatc | tacttgagct | tcaatatttt | 33780 |
| agtaataagg | attttttcta | aggacttgat | aactatcagt | gaagttagag | caacagttta | 33840 |
| tgaagcagtc | tgacatacaa | tacacgctca | ttgtacaaat | ttgaaaaatg | tagaaaagca | 33900 |
| ttgagatgaa | aaaaattata | atcatattac | ccagacataa | tcaatgttta | atattttaga | 33960 |
| atatattatt | ctagtctact | ttcaatgcac | atgtgttttg | tttttgtttt | tgtttgagac | 34020 |
| atagtctcgc | tctgtcactc | aggctggagt | agcagtggcg | ggatctccac | tcactgcaac | 34080 |
| ctctgcctcc | tgggttcaag | cgattctcgt | gcctcagcct | cccagtagc | tgggattaca | 34140 |
| ggtgtggggc | accgtgcctg | gctaattttt | gtatttttag | tagagacagg | gtttcaccat | 34200 |
| gttggttaag | ctggtccaga | actcctgacc | ttaagtgatc | tgcccacctt | ggcctcccaa | 34260 |
| agtgtggga | ttaaaggcat | gaaccagcgc | acctggccgc | atatgtgtat | ttttaagaat | 34320 |

sequenece listing.TXT

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| cttttagtaat | gtcttatata | atgcaaacat | ttccatgtct | ttaaataat | tgctgctgat | 34440 |
| tttttgtact | tagtggtcct | tagtatgggt | atagtttaac | cagtcacttt | gctattgttg | 34500 |
| gacccttaga | ttgttccttt | gttattgata | aataatgcta | ttaacctctt | tatattttaa | 34560 |
| tatgtcttac | atatccctga | attattttcc | ataaatcaat | ttgaaataaa | aacctaggtt | 34620 |
| agtgggtatg | agcatttata | agggtttgta | taaaaattgg | ccaccagaaa | agttgtacta | 34680 |
| atttttaccc | ttttatcaga | agaagaaaac | acccatttct | ctactttcac | caacaattca | 34740 |
| tattgcttat | tttttgatag | ataatatttt | tacattatac | aaaatgcaga | aagtacagtg | 34800 |
| acagtcacac | ttcttcctct | ctctctgttg | tccagctgcc | tagtgctggt | tcctagagtt | 34860 |
| atctactatg | actcgttcct | taaatattct | tctggacatt | ctgtactagg | tattttttaa | 34920 |
| aagcccttta | ccagtttgat | agggtcaagt | agtacttgct | tttttgatct | ttgattatta | 34980 |
| gtgaatgtga | acatgttggc | agtttgtatt | tcttctgtga | tttttgcttg | ttcatactct | 35040 |
| ttgcccattt | ttaaagttag | gtgttcattt | ttttccctga | ttttatgaga | gttctttaca | 35100 |
| tataaaggat | gtaaactctt | gtgttatagt | tttccctcag | ttttctaaaa | gatttttagt | 35160 |
| ttacatttca | gtggacattt | tcagttttca | caaaggaaaa | tatatTTTTT | atttacttat | 35220 |
| agttttaatt | ttacacttag | ttctgatcta | tttaaaattg | attttggatt | ccgattaggg | 35280 |
| attatTTTgc | cccacgtatt | tttttggtgt | tagagttggt | ttcctattcc | catactctga | 35340 |
| tctagctgcc | tagggccagg | cagcaatctt | gtggaaaagc | cagaaagtta | atgtttgcca | 35400 |
| gattgccttc | catgaactgg | gcaatcaact | gtagactacg | gggtgttggtg | ccatctagtg | 35460 |
| ttgcagatgg | aagatcaagt | ctgtggaatg | atctataatt | gactatgtgg | aataaattca | 35520 |
| gttggacaga | gaaatttagc | gagctgtgaa | tatcgTTTTg | cactaacaga | tgagttttaa | 35580 |
| atTTTtataa | acaattttga | atattgacat | cttgtaccaa | atcaaacaaa | tgctttaatc | 35640 |
| atactactat | aaacattatg | aatgacctt | aaagattccc | cccaaacctg | gatactttaa | 35700 |
| tgaagacatt | aaagtTTaag | aagatctgtt | tagggcctag | tgactattaa | ttcttgaatt | 35760 |
| cagaatttaa | aaatgcgtgc | ttgaggccag | gtgcagtggc | tcacgtctgt | aatcccagca | 35820 |
| ctttgggagg | ctaaggcggg | cagatcacga | ggtcaggaga | tccagaccat | cctggccaac | 35880 |
| atggtgaatc | ctcgtctcta | ctaaaaatac | aaaaattagc | tgggcttggg | ggcacgcacc | 35940 |
| tgtagtccca | gccacttggg | aggctaggca | ggagaatcac | ttgaacccgg | gaggtggagg | 36000 |
| ttgcagtgag | ccaagatcgt | gccactgcat | tccagcctgg | tgacagagcg | agactctgtc | 36060 |
| tccaaaaaaa | aaaaaatgct | tgcttcagca | gcacatacta | aaattggaat | tatacagaga | 36120 |
| agattagcat | agcccctgca | caagaatgac | gcatagaatt | tgtgaagtgt | ttcatatttt | 36180 |
| tatataaaaa | atTTTtataa | atgctttggg | tgTTTaagaa | tatttgtatg | ttttagatta | 36240 |
| taatgtaaga | agtttagcata | ttagttttca | taaatagtgt | cacttttcagt | ttatgaattt | 36300 |
| tagtattcat | ttttggtacc | ttatgtttaa | ttttttatag | actttaaaa | gctcgttggt | 36360 |
| ttgctatttt | aacttgtact | gtcattcatt | ttctagacta | aaatctTTTT | ccagttctta | 36420 |

sequece listing.TXT

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| gcatatggta | gggttttaaa | aattaactcc | tttcagtatt | gaaacatgtt | aatttcatac | 36540 |
| ctttgtgtag | ctcagaatag | ttaaattttg | aaataagctt | aaaactactg | tgtagctata | 36600 |
| attgtttctt | attttttaaa | aaacatgcct | attttctgtg | gctggaaagt | ataaattatt | 36660 |
| ttagctctca | agagcagtgt | acataagcag | tctctaactt | tcagagtagc | attttcaatc | 36720 |
| caaatgattg | ctgctttccc | accctctttc | ccttgcattc | ctaaatgttg | taaagaaaaa | 36780 |
| cgaagcaaaa | caaaaacctg | agtttttcct | gggtgcagaa | gtagaggaaa | gaaagaaatg | 36840 |
| gaaaaggaag | aatgtcttag | aataagagct | ggctgggggtg | gacttaacac | cttgcctagt | 36900 |
| gctgcctgtt | ctaaaatcta | aaatataact | ttctactgtc | tgaaatcttg | ccagtttagat | 36960 |
| accaccccc | ctacaccctc | ccccccccc | aaaaaaaaac | ccaccaaaaa | acatacacac | 37020 |
| agtttctgag | gtcataaaag | agtttcttgt | ttagtaggaa | ttgatttatg | cgtatttcct | 37080 |
| acttaacagg | taagtgcatt | aaggaaacga | gggtttgggtc | tgagatgtga | gaaaagaaac | 37140 |
| cgtgtaggta | attttacagc | atattaccct | ttagagctta | tcccttcata | agatgcaaag | 37200 |
| gaaagacatt | atggatatgt | atttgggcaa | gttttcatct | ttgatttttt | tgtcatgctt | 37260 |
| gggagaagg | gatactggg | acatggacat | tgaggagtgg | gaaattgcca | aatatgaact | 37320 |
| ttgaacagtt | tatttcaaaa | gttctgtata | aagctgattt | tgagttcagg | aaaaggagaa | 37380 |
| tacttttccc | ctcttctccc | ctccacaaac | acacaatatg | aaatagggct | tagaattcat | 37440 |
| acaacacttt | tattggcttg | cagtataaat | aaaggagttt | tctgtggcct | ctcctttgtg | 37500 |
| agcctttgct | tttatgggaa | aagaggttcc | tgtctcaaat | agtcaaaatg | ccattctgca | 37560 |
| agttgagaca | tgtgctctac | ttgaaaattg | tcctcaaaag | aattaatttt | tttaaaagtt | 37620 |
| aggtagttga | aggaaaacaa | aataaatgaa | gataagtttt | taacagattt | atgtcctttc | 37680 |
| tttatttgac | ttgttaagtt | ggggttcatt | gtggaatagg | acctataaac | tatgcagatg | 37740 |
| tacatttttc | tcagctggaa | aataatagaa | ctatacagca | acgacaatag | tttgtgtatg | 37800 |
| agagggggca | attctgttta | gaaagattgg | gttattgcct | agagttgaag | gacttaatat | 37860 |
| atgagctttc | ttagatgtgc | cttacttgtc | ttgttgcttc | ttagtttgat | tgttattttt | 37920 |
| agcactactg | taagttaaata | gcacttacat | agtgccctact | ttttgtcagg | caatgtccta | 37980 |
| aagccttcta | tttttagtag | agatttatatg | attttcataa | taaacatagc | ccatctggct | 38040 |
| ttacatcttt | aacaaatttg | tgtcatatca | gtttttcaga | tttaagcact | tttttgctta | 38100 |
| acttgccaaa | cttaaaacaa | gtctagttga | aaaactttgt | gagaaagaac | tgggcaaaat | 38160 |
| gtcagttgat | ttccacaagc | tagttttcct | tgtacactta | caaagaccat | aaaaattaaa | 38220 |
| gaagtagatg | tcactatgta | ggctgaaatg | tttactaaac | ttcagggctc | ctattttgac | 38280 |
| tttttaattc | gtcaggggtg | ctattaagta | tgtttaattg | ttagatgagt | gggtatgtct | 38340 |
| tattacacat | tcttgcccct | ctcagacttt | tttctttaat | tgtaagcca | aatcaagtac | 38400 |
| cacggaagat | acaagtagtc | ttaagtgccg | agtaacttga | tcacagtaaa | acttttttct | 38460 |

sequenece listing.TXT

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| tattctaata | ctcgttat | attggctttc | agttttaagg | gacttgttat | tagaaagtca | 38580 |
| gtatttttga | tttactaaat | agtttgagat | tctgaatggt | gcgtggagag | gccagacatt | 38640 |
| ttcaggccat | gatatggctt | gctgaccggg | ttctcaaata | tcacattatg | caggggttca | 38700 |
| gtgaataaag | tttaaagtta | aatattaact | cgagctgaga | atactgggct | cttttaaaaa | 38760 |
| ttacttttct | ttatttatgt | ttggagttag | agaggcagat | agggaaataa | atgtgtcatt | 38820 |
| gatattcaag | ccacttcctt | tttcccctct | cattttccta | attttagttc | tttctatggt | 38880 |
| taagtcttac | atgttttgtt | tttagttttt | ttgggtacat | aataggagta | tatattaata | 38940 |
| tcaagccact | tctgatatta | aggattttgc | agcccacaga | tagcaggttc | cagaaaatat | 39000 |
| tatctctatt | tcatttttagc | tatacagtct | taagtatgta | tttttgtaca | taggctacgt | 39060 |
| atcttatagt | attttcgcaa | attgcatttt | aaaatatatt | agctgatttg | ttagtgcctt | 39120 |
| ttctgcttag | gcagatataa | gtatcagggt | aattgattgt | ggaacataag | tagagacact | 39180 |
| gcattggaat | gaaaatcagt | tttataaagt | tgaacacaga | ttttaaaaaat | gctgtacata | 39240 |
| gatttgtttt | tatatattttc | agtaaaattt | taggccagggt | gtggtggctc | atacctgtaa | 39300 |
| tccccgcact | ttaggaggct | gaggtgggag | aattgcttga | gcccaggagt | ttgtgaccag | 39360 |
| cttggaaca | acagggagac | ctcatctcta | aaaaaagtgt | aaaaataaaa | aattaactgg | 39420 |
| gcattggtggc | acatgcctgt | ggtgactgag | atgggaggat | ctcttgagcc | tgggagggtg | 39480 |
| aggttgccat | gtgaccaatg | attgcaccac | tgcactccag | ccttggtgac | agagcgagac | 39540 |
| cctgtgtcag | aaaaaaataa | aaaataaaat | aaaattatag | tttgctttta | tgtcattttc | 39600 |
| ccatggcaga | ttatatcatt | agcccatgaa | tatatctccc | caagctaaga | atctattaat | 39660 |
| actgtctgta | gaggtgtcta | ataaatattc | aaagattgag | ttggagcaga | tgatgattaa | 39720 |
| gagtaagtgt | atgtttgtaa | gtctctggat | ttccataatt | gtaaaagagg | aaaaaagata | 39780 |
| ttaggaagat | taagttgcta | aagttttctg | ttcaaataat | atgttcaata | aacattagta | 39840 |
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| cttaatgaac | ttaggagcaa | ttaaggagac | tcatcatttc | acaagcttga | aatttaggct | 39960 |
| attaatat | gatcagtcca | tttttatctt | attaggtaac | cattaatttt | agagttttta | 40020 |
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| caacaaggca | aatgcctaaa | acaatcaaca | gatagaagga | aagcattaat | gctggagtat | 40260 |
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| gacttcagtc | ctgctgcagt | tgtgcagcag | aggagactgc | agacttcggt | tgaggaaacg | 40380 |
| ggtatttcat | gtctcagga | gtaggtttgt | gcagttacag | cttttctggt | ggtatgcata | 40440 |
| attaataatt | ggagctgcaa | agcagatcgt | gacaagagat | ggacggtcag | aagaaaaatt | 40500 |
| ggaaggacaa | gggtatatct | gctttttaat | ttcttattca | gtttttatat | gtgaccacta | 40560 |

sequece listing.TXT

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| aagagttgaa | gtctaaagga | ttaaaacggc | tatctcacgt | gtttttacat | ttggttgtat | 40680 |
| accagaaaat | gtcatgctgt | tctgtttcac | tggcattcgg | tttagtcctt | tcagtcctgc | 40740 |
| cgtttagggt | ctgttctcta | atcttgcaca | ttgtaaacia | tatagatcta | acagatttca | 40800 |
| tttgttcgtc | acttggaagt | ggtaaataca | cattgctggt | tttgtgtttc | acagtgacat | 40860 |
| attttccgtg | actattttaa | aaaaccttac | ttggtgtagt | tgaaattctg | tgcaaagggt | 40920 |
| tgtaggtagc | aagatattgt | gtttgcagta | agcctcttct | ttgaaaatct | gatttgaacc | 40980 |
| tttaaaatta | ttaccaactt | tcttttaatc | agattatgtg | catcttgaaa | tcattcaaat | 41040 |
| tacacagtat | aattacgcag | taattttaaa | tgcattgtcta | tatttaagtc | actaaccttt | 41100 |
| gtccttgtaa | taaccaatca | gtgattttga | tcccttttcc | tcccccttga | aagcccagat | 41160 |
| cctttcaaata | ctcagtgga | cattgtgtaa | gaatttaagc | ctgtaaatgg | taaaatgttg | 41220 |
| actagaatat | ttaaagaata | ttttattatg | tagatgggta | aatctacctt | tttttcttta | 41280 |
| aaagaaagt | gtaggctgta | tatctgacca | cttataataa | attaccttta | aattattaga | 41340 |
| gctattttta | agtagtccaa | aatagacatt | ctacgtaagc | aatttttttc | ctggctacat | 41400 |
| tcaagtttta | taattaaaaa | aaattatttc | cttctagcag | gattggcaac | aatatttcta | 41460 |
| aaagtatgta | gagctaatta | cagtaacttt | tacaatgtct | ttttaaaaaat | ttgttcaata | 41520 |
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| tctttacatg | tgaatttaaa | gagaaggatt | tttatttctt | catcctgtta | gccgttgacg | 41700 |
| ttacagattg | atgaattgat | atatggtagc | ttttgctaag | tgaaaatgat | acaaatgata | 41760 |
| ataatacaat | aaatacaggc | cttaaaaagta | ggtgaaaagt | cgtatcaggg | ctcatttctgc | 41820 |
| aactattaag | gttctttatt | aataacttaa | gtcttaaatac | attaaataac | atcttaagtt | 41880 |
| ctttatttgt | tgaagtaatt | taaaggattt | atgagacagg | agaaattaag | ttccaatgta | 41940 |
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| tttactcctg | aatatctctg | gggagcctca | ctttgtaagt | ggaatggcct | aatatttttt | 42060 |
| agtacctgtc | tggctgtttt | ggtcggtaag | attaactttg | cctgtttttc | tgagtcagtg | 42120 |
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| tttaagatta | cagagtaagg | tttaagttgg | aatcactga | gaagttggaa | gctgtcatgg | 42240 |
| aatgagtttt | tcctcatcta | aaaaaaaaat | agtttgacag | cagagaagga | gcctaatacta | 42300 |
| gggtctagggt | aaatttaaaa | aatatactta | ggcatttttc | tactgcattc | tccccctgac | 42360 |
| caccagtata | gcatagtgac | agatttgaga | gatgctctga | tttcagtggt | ctttaaaagg | 42420 |
| tgggtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtttgc | ttgccgatta | actgggtattt | 42480 |
| aagatactcg | atctttcagg | ctgaaagcat | taataatttg | cattctttta | tatattcttc | 42540 |
| atattttctg | tttaggatac | ttatgacaaa | tgacatttac | atagtattcg | attactgggg | 42600 |

sequece listing.TXT

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| aatgggtagg | cctagggatt | tggtatgggg | aggagaatga | tataaccact | aaaaagctat | 42720 |
| agttgagaca | gtaaataact | ttctgggtag | aacagaatat | ttaggacagg | agttgaaaga | 42780 |
| taagattggt | gtggtcaagg | aatgtagaaa | atttagatga | actagattag | gtttcctcat | 42840 |
| acttctctgt | agatgagaat | catctagtgc | ttcttaaaaa | tgcagattcc | ttgggtcgtg | 42900 |
| acctaccaa | tcagatTTTT | tagggcctgg | caatctgcat | attaagcatc | ctggtgtaat | 42960 |
| tcatattgtt | gggcaaattc | gggaaacagt | gatctagggg | ttaagccttg | gttctgggtat | 43020 |
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| gctgcccagg | gttccagttg | agaggttctc | tggttttatg | gaagagatac | cctgggccag | 43140 |
| accgcagaag | acattgagtt | ttggatttga | ttgtaaaaga | aataaaaagg | atTTtggaagt | 43200 |
| tttaaagtag | ggaatggtaa | atgatagcag | ttggtttagg | gtgctgcata | agatcaactg | 43260 |
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| ctcaaggggc | aacatgaagt | ttgaattaga | gtgaaatatt | ggcaatgaca | gtccttttagt | 43500 |
| attagtagaa | atagagctaa | aatagaaaag | atgccaaagt | gagtttcaga | cgctttgaaat | 43560 |
| ttgaagtgat | gatagaacat | ctcggaagct | cagataaatg | acaggtttaa | tgataaagaa | 43620 |
| ttgggagtca | aatgcagagt | gaggcaggtg | aatactatgt | gaggagattt | gcactgaaag | 43680 |
| aactattaag | aaagaaaagc | ctaaaacctg | cgttatggag | gtctgcggtc | ttagggaaaa | 43740 |
| tgaggagggt | ctagagcagt | aaaagaagca | ggatagtgtg | actgatacta | aggggggaaa | 43800 |
| gaattttcaa | gaaggaatgg | gcaattaaat | acttagagaa | gctggttaat | atgagtgaga | 43860 |
| aatggatgtg | aatcttggtt | aatttttaaaa | gtaggtgcaa | cactgttctt | tattgttaca | 43920 |
| gtactctttg | gatttgtcag | ttaatgtgcc | agaggtaatc | tttgagagaa | gtttctgtag | 43980 |
| gatagggaaa | gaaatgttcc | tagcattaaa | actcaatata | attatatctc | aagacaaact | 44040 |
| agttttggac | catttctgca | gcatacttcc | gtgtagagat | tcttttaggg | ctctctgac | 44100 |
| tttacttatg | ataagctact | ttcatttttt | gaaagccttg | aataaagctc | atactgacat | 44160 |
| tttggtagag | agtagcaggg | gtcttgctgt | ttgaaatgcc | ttactcggga | aggccaaaaa | 44220 |
| atgcccaaca | agggaacttt | ggcattaatt | aattatgggg | cctactgatt | ggaacgactc | 44280 |
| tcctttcagt | tctaaacttt | gttaaaaccg | aatatttagg | cattcattag | atacattttc | 44340 |
| tagatcttgg | gttagtagtg | cagcactaca | taggtatgtg | ttatagagaa | tttagaagggt | 44400 |
| aagtagaaga | gtaaaactca | catcgcatag | agaatagttt | tggggtatct | ttttaacagg | 44460 |
| gtaatgtgtg | ttgggagggt | tttgtggtat | atTTtatctt | gtagtctttt | tcctccatta | 44520 |
| agtatttatt | ttttaaatac | tgtacgctat | tttaatgact | acaatatTTT | aattccatct | 44580 |
| agttaaataca | ggttattgct | aaagtttgca | agtacagggt | gaacatccct | aatctgaaaa | 44640 |
| tctaaaagcc | aaaatgctcc | aaagtctgaa | acatttttag | cgctgatgtg | ataccacaag | 44700 |

sequece listing.TXT

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| tagaaaattc | cacacataaa | tacttaacac | aatctttgtt | tcatgcacag | aattatgtaa | 44760 |
| aatattgcat | aaaattactt | ccagcctatg | ggtataacat | gtagatgaaa | cagaatgaat | 44820 |
| ttcatgttta | gacttgggcc | tcactcccaa | gatacctcat | tacgtatatg | caagtattcc | 44880 |
| aaaatatttc | caaatattcc | aacatattct | agtcccacat | attacagtaa | tactcaacct | 44940 |
| gtaaaaacaa | tgctaaaatg | attataactg | aacataagtc | tttgtttcta | tttgtgatta | 45000 |
| tttccaaatt | tctgggttat | gttatttagg | ctttgggcgc | cttttacaaa | actgctttcc | 45060 |
| agaaagattg | tacaaattgt | tattttcatc | agtgaatgtg | agtgtctatc | atggatctgt | 45120 |
| ggctaagggt | aaatagtatg | tattcctttc | ttacagtttt | tactctaaga | tagctatttc | 45180 |
| gtcagtgtta | actcattaaa | ttacttgata | agaaccagct | ttatattgta | agatgtgtaa | 45240 |
| gcagtgggag | caatgggtga | aatagccttt | ctattttatt | taccaagtc | tgtgtactcc | 45300 |
| tcatccttac | cagggccctt | aactgatctt | tccactaaat | tatgtgtgtc | acagcgaaat | 45360 |
| taaaattact | cttccaaagt | gcaactctaa | tcatggcact | taagggattt | tcctttactt | 45420 |
| acttttcaaa | tgaagtttct | tctgtctatc | ctggatgttt | gaaaggcatt | ccatggccta | 45480 |
| gccccaacct | ttataatttc | gtctgtcatt | actccctgtc | gctagccaca | ctgaaggact | 45540 |
| cgttttctaa | acatacctgt | tctttgcctt | tgcttgtgtt | tttctctcca | ccttgaaggc | 45600 |
| cctttcttcc | catttcattt | tgctgaagta | gtccttatca | aaggcccggg | tctccttgag | 45660 |
| gtgttcacta | agcctccctg | gggaggtagt | tcagtgttcc | tcactcccat | ctctcggttt | 45720 |
| tcattttgta | cttttttttc | ccccctaagg | gaagggcattg | aggggtttca | ttttgtactt | 45780 |
| tctattacaa | ttatttatac | ataaatatct | tggtctcttt | tccagcctcc | aaattttttt | 45840 |
| gaaggccaaa | aacagtgatg | gcttcatcac | tgggtcttct | gattgacttg | gtgcagcttg | 45900 |
| tcaatgaagg | aaaaggctga | gaactccatt | gttcagccag | gtttacttct | ggccttaaac | 45960 |
| ccacataaat | ttttggaaaa | ttttaaaata | tgatttcaag | tgggagcaat | tagaaaaagg | 46020 |
| attccccac | ttttcccctt | cttaaaggaa | caattcagca | actgaaggaa | cttctgtaga | 46080 |
| ttcagaattt | ttagagtatt | cctgcagata | aggcattctg | ttaatcattt | attccaactt | 46140 |
| tcctgtttta | ctgacaagga | aaccaagaaa | acgagagatt | taaatatttg | tcaggcccac | 46200 |
| acaggaccat | gccacaggtc | catggtggca | tgaagccttt | gtttttattt | tataatttat | 46260 |
| atttgcactt | gaataaccaa | agattgaaaa | gtatataagc | taaaacggcc | catgttttga | 46320 |
| tattttattt | gtgcatagtc | tacttgtggc | atgttattga | atgtcgtata | cttctttcgt | 46380 |
| attgtcctca | ctgcaataaa | aaaggcaggc | agttgtctgt | cacactaatc | atggaagaag | 46440 |
| gtaggtgtgg | ttagtcatth | agtacaggta | ttgtcaaaag | gttaaaccta | gtgggagttc | 46500 |
| tctgggccag | gagaataatt | tcttttcatc | tttcaggatt | ggattacatg | ctgggatgta | 46560 |
| ggcagaatat | ctaggcagag | aatagaattc | ttaaatttgt | tctccgggtg | ttccctaagt | 46620 |
| tcccttttta | tgtacagcca | tctcagtatc | tgcaggagat | tatttccagc | cctccacccc | 46680 |
| gcgtccccct | acaccatgga | taccaaatac | cacagatgcc | cacgtctctt | atataaaatg | 46740 |

sequece listing.TXT

| | | | | | | |
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| gtgcagtatt | ttcgtaaaac | ctacgcacat | cttggttgaga | tcattctctga | gttacttttt | 46800 |
| acaatgtagg | tagttgttat | attgttcagg | gaataatgac | aggaaaaaag | tctgtacttg | 46860 |
| cttagttaca | gatgcagtca | tcataggtct | agctacattt | ttccatccac | agtttagttga | 46920 |
| atccgcagat | gtggaacctg | cagacataga | gggctgactg | tattcacttg | gtcccatctc | 46980 |
| ttgctagaat | ttgggctaag | ggatgatgtt | taatttaggc | aatacttttc | tttgcatcct | 47040 |
| tggagcagtg | atctgacacc | acatttatac | ttatttatct | gctctatcat | gaataaggct | 47100 |
| gacatattac | tgagtgtgtg | tgtatttttt | ttaatctgct | tcattggcttt | caagtttggt | 47160 |
| tgattcagct | gccccttagg | cattggacgt | attatagaca | ctaaaatatt | ttgtgtcgtc | 47220 |
| tttcttcaaa | tactatatca | ctaccatatt | ctatataaca | ttttcttatg | aagctcaaag | 47280 |
| caatttaaaa | actgaaaaat | taccaaatta | tcaaataatta | atgattattt | gtactgttca | 47340 |
| ttgattcgat | gaacatttat | attgtgtgta | caacagttat | ataaggttat | ggaagaagaa | 47400 |
| atataactga | tttacttact | agtgaggttc | attctgtgtt | ttgaactagt | aatttgcttt | 47460 |
| gagctcttcc | cctcccccaa | ctccagtata | ttaagcttca | agtttctaga | gttacgggac | 47520 |
| agtatgtttt | ccatttagtt | tttgtttagta | gaaaataggg | ttttgagcag | taacctcagg | 47580 |
| tttctaagac | ttggtgccta | cttattttta | gcttttagatg | ggccaacaag | aaggaaaatt | 47640 |
| taaactatag | taaattatac | attgaaccag | tttattttct | aatttttaggt | ttctatttat | 47700 |
| gcaggctctg | atcaattcta | gtaacttaat | aaccacatgc | ttatcaacat | gtatcagaaa | 47760 |
| tacagacttg | tcataggaga | agttctcatt | ttaacattct | ttacaattga | aaaatcgtta | 47820 |
| aagtgagtgc | aggtagggag | agtcatgtat | atccaacata | cttaaagaga | agatattttag | 47880 |
| ctttacctta | gagaaaatga | aattaaagggt | aggattattc | tgtaaagaga | aaattatcat | 47940 |
| ggtttaggaa | aactaggagt | gcaaaattag | aactgttttc | tgcccttttt | tgcttggttt | 48000 |
| ctcctagtaa | agctggaaag | agtgtaggat | taagggaaat | attgaaaacc | acatgaacta | 48060 |
| atgaagtaaa | ctggtgaatt | taattataaa | tgaagcatgt | atggtgttat | tgaacttcac | 48120 |
| ttttctctta | gagaaattcg | tgttatcctt | agaagatggc | aaacagccat | aggtagtttt | 48180 |
| tatgttcctg | caacatattt | gaggcatttt | ctacttgaaa | tataggaaaa | aaagaccact | 48240 |
| ggctgggcct | tgtagctcac | gcctgtaatc | ctagcacttt | gggaggccac | agtgggagga | 48300 |
| ctgcttgagc | ccaggagttt | gagaccagtc | tgggcaacat | agggaggccc | tgcttctaca | 48360 |
| aaattttaaa | aaattagctt | ggtgtggtgg | tgcacgccta | tgggtcccagc | tacttgggag | 48420 |
| gctgaggtgg | caggattgct | tgagcccagg | aggtcgaggc | tgcagtgagc | tatgatgatg | 48480 |
| ccactctgct | ccagcctggg | tgacagaggg | agacactgtc | ttaaataaat | aaataaataa | 48540 |
| ataaataaaa | taagatttga | ttgactttat | cttggcacat | aaaaaccaat | aactatgaaa | 48600 |
| ataaatttat | tttagttcat | tcttaacata | atttagttta | taatcacagc | cgtgcataag | 48660 |
| gttttagaat | acatagagga | tgaatcaggt | ttttgggatt | taggggaatg | taatttttgc | 48720 |
| cacaaaattg | tatactagca | caaatggct | tcttttgctt | tatggttgaa | tttcacagtg | 48780 |
| ggtcatatat | aatgtccctt | tacaaaaaat | gttcagtggg | ttaaaaatgt | actttcctgg | 48840 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| gggctcttcc | taatcttttg | aagtgagagg | ctccgttttg | aagtgcctgt | tggactgtca | 48900 |
| gtgttttttg | gagcaattct | ccagcatcac | tcacaacatt | aactttgtgg | aatttcatgt | 48960 |
| taataggaag | atttgcaatt | ttgcactggt | gatttggggtg | gttttatctg | acaagacatt | 49020 |
| taggtaatga | gtgaggctgg | atggtgaatt | taaacagtaa | gggatattta | tgagcttgga | 49080 |
| ttaattttga | agattactta | gtggatgttt | tcttatttat | gaaaattttc | tttcctatgc | 49140 |
| aacttcataa | ctgcagggac | catttaacaa | tactaaactt | gggtaagaga | atcttgtact | 49200 |
| cctcaaatag | tgttggttac | tagagagcta | gagacgcata | ttttttaaat | cacaaaccat | 49260 |
| cttttagttc | atgttatgtg | gggaaaggag | tatgtgtgtg | aaaacacact | cggtgtttac | 49320 |
| aacgatttta | attgtaaagg | ccgtttgttc | tcagtaataa | taataagggt | ctatcctggg | 49380 |
| tgtaggattg | gttttttaat | aaaatgaata | gtaaacattg | acttaacttc | acatctttat | 49440 |
| gtttggcttc | tgtttcctgg | agattttcta | gaaatgggat | tttcgttgct | ttatatgctg | 49500 |
| tgtttgtaa | gtttattgct | tatttaaaaa | ttttaatatc | attcttaaat | tcaccaatgt | 49560 |
| cttttttatc | tatttttata | gttcatatgt | aattacatag | attgttattt | atagtataaa | 49620 |
| tttattttta | aggtgagaac | aattcagatt | gcttctagaa | aacaatttaa | acaaaacatg | 49680 |
| gtttattcct | attattgaat | ctcttaatga | aatttattgg | tctcacctat | aactctactc | 49740 |
| gtagtgtag | taaattgtgt | ctcctgtctc | aattatttaa | actaaggtag | aaatagcatt | 49800 |
| tggtattctc | aagtagcata | aaaagaaact | tgagtattaa | tatagtcttt | taaatacaaa | 49860 |
| aggtataata | gagtgagacc | ttcatgggtca | gacttgaatt | tcagtttgta | accctacaca | 49920 |
| atttatttaa | caatatgttt | acattacaaa | tgtacaaata | catttgcata | acatatgtaa | 49980 |
| tgagataaat | actttttaga | gttggttatgg | attcgaggta | atgtatacaa | tgtactcagc | 50040 |
| acagtgcctt | gctcagactg | ggagattaca | aaattattgt | agaaagggga | agtatagaaa | 50100 |
| ttttgctgat | tgtttattag | tgctatttgt | ttgtcatgta | aagtgttatt | ttcttaggtg | 50160 |
| tggtggttca | aattcgccaa | agcactgtaa | cgttatcaaa | gtaagacagg | aaagatttag | 50220 |
| tggaagagac | aaggacctga | aattttgcac | gtatctgttt | aaaaactcta | gttaaaggaa | 50280 |
| gaggagatag | ccaagacaga | tgctggcttg | ccagggtattt | ggttgagata | cttttgtagc | 50340 |
| agtaacaggt | acccatcagg | ctgagacttg | ctaattgaaa | cctctttaca | tatactttca | 50400 |
| gagaaagttg | aattcacctt | ttttaaaaaa | tcagggtcta | gctaagcatt | acataataa | 50460 |
| tttgattgcc | tttcttgacc | ttatctcttg | agcttttagta | ccagtgtgtt | cagtttacca | 50520 |
| agcatttcca | tatgtgaaat | ttcaattcag | cttcaaataa | tttcttaggg | gtgggtatta | 50580 |
| tttttcta | tttacacaca | gggaaacaga | gattacatta | tcttctcaga | tcatattgat | 50640 |
| actaacctga | aggaagaaat | aggactcaaa | agaaatagga | cttaagggtcc | tcttaatgtc | 50700 |
| tttgatgaaga | gagctaaact | ctgcacagat | cctttttgtg | gaccttcgcc | tgctcagtttt | 50760 |
| ttgacaggtg | aatgcttact | gtgttgagac | aaaagcttac | tattacgtag | tactaaatgt | 50820 |
| tcaattctga | attctaatta | cttttcctgg | catttgggaa | gaatttgatt | aagggttggtg | 50880 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|-------|
| attcttaata | aatatataat | tacttattat | tataaacatg | gttgtgaaaa | acaactgaaa | 50940 |
| ttttaataacc | gttctaatat | ttatatattc | atgtgtttat | ttcctattta | actgccattc | 51000 |
| tcattcctca | cctggcatta | ttaaagagaa | cttaatat | gtttttgctt | caaaagtagg | 51060 |
| tatTTTTctg | ccagccattc | cctgtcctag | tatTTTTtagg | aacagccagt | ttactcccc | 51120 |
| actgccccgc | cttcccagac | aaaagctttt | taaaattgaa | acctgacttc | gggctgttca | 51180 |
| aagaagaatg | taagaatttg | atgtgaggca | aaatgtaatt | ggatgacttc | tgcacgtaag | 51240 |
| gcatgcacaa | tgcaggctga | cactatTTTT | agctatggca | gatgacagtt | tgtgattacc | 51300 |
| aatgtaggc | agctcttctt | actgtgcatt | gagccagaag | tttttatttt | aaagaaaaga | 51360 |
| tttaagtgtg | ctgagttatt | ttgaattaaa | atTTTTtttt | gataaagatg | ctattacaca | 51420 |
| cagtcatTTT | tcacatTTTT | atcttggaga | caaacggcaa | ggactgcagg | gcataaatta | 51480 |
| ctTTTTtcta | aactacaagg | gtttgttaaa | attgatgaac | attatTTTTa | gcaattcata | 51540 |
| agcattcccc | caaagttgta | aatggaaaag | tactgctaaa | ttcatctcag | atctttgaaa | 51600 |
| ggatgtttaa | tgaacatTTT | gtatgagtaa | ggttgaggcc | acagaatagg | gttaccttgt | 51660 |
| atgattaacc | ctttattctg | cagtatagaa | ggagacttga | ggaaccaaga | aaagttaaac | 51720 |
| ttccctgta | taaactcttt | gtcttaattt | tggTTTTtca | aaaataagga | accactaaag | 51780 |
| tgattactga | ggaatccaaa | attagcattt | tggtagtcct | gtagttctta | ttgaaagggtg | 51840 |
| tcctttattt | taatttgaaa | atgaatttaa | atgtttctgt | tctaaaaata | atctggccgc | 51900 |
| tattcagaca | gtgcagcaag | cattaatgat | gtaggtaatg | ggaatataaa | gatgaaaggc | 51960 |
| atttatcagt | tttccagggg | ctagtaaggg | gagacaagcc | tgcaaaacag | tgTTTTcttt | 52020 |
| tttataaatt | acctgaaagc | attatttggt | atttaataaa | tgtagacatc | tgaaaatagt | 52080 |
| gtaaataaaa | taaatgttaa | gtctaaagcg | tagaaacatt | ttttaaataa | atcaattaga | 52140 |
| attagtgacc | tgtcataagg | tattcattca | ttctaatacag | tcaacagtaa | tattgaaaat | 52200 |
| ttagttgttt | ttggctttct | gctcagctct | ggggataaag | ttaggtagta | agacatacat | 52260 |
| gttcttttat | ggagtttaca | acctagtaga | gaagtatggt | gaaatgacta | tttttttaaa | 52320 |
| gttttaaatc | tatttccagg | acattttctt | cacccccctc | ccaaaaaaag | ccccccacac | 52380 |
| cctctagcag | tcactcctct | tccctTTTTc | cccagcccct | gacaatcact | tatctacttt | 52440 |
| ctgtctctac | agaattcata | acttgcata | tcaaggcact | tcatataaac | agaatcataa | 52500 |
| aatatatggc | cttttgtgac | tggcttcttt | cacttagcat | atgttttcaa | gattcatctg | 52560 |
| ggttgtaaca | tgtatcagta | cagtagtttc | ccccttattc | ttgaggggta | agactctaag | 52620 |
| accctagcgc | tatgccctag | aaactgcaga | taggactgaa | ccctatatat | actgtttatt | 52680 |
| cctatctata | cataactatg | ataaagttaa | atttataaat | tagttacagt | aagaaattaa | 52740 |
| caactttaac | aatgaaagag | aatcatggta | acagtatact | aaagttaa | gaatgtggtg | 52800 |
| tctttctcaa | aatatctcat | tgtactatac | tcacctaat | tttaactgtg | gttgactgca | 52860 |
| ggaaactcta | accagggaaa | gggaaaatgc | aggtaaggga | ggactactgc | acttcatttc | 52920 |
| gttttatggc | ctaataatat | tctgttatat | ggatatacct | tttttttaaa | caatccattc | 52980 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-------|
| atcacttgat | agacatttgg | gttgtctgtc | tcctcttttt | ggctatcatg | aataatgctg | 53040 |
| ctatgaacat | tttgtgtgta | agtttttgtg | ttttctagtt | tcttggggtga | aaattcctag | 53100 |
| gagtgggaatt | gccaggtaat | aagataactc | tgtattttaat | tttctgagga | actgccaaat | 53160 |
| tgtttttcac | agtggctgaa | ttttacattc | ccatcagcaa | tctatgaggc | ttctaattctt | 53220 |
| catcactttt | tgtaaacact | ttttattgct | catctttttg | attatagcca | tcctagggggg | 53280 |
| tatgaagtgg | tatctcattg | tggtttttgg | ttgcattttt | ataatgacta | aatgatgttg | 53340 |
| agtatttttt | catgtgctta | ttggccattt | gtgtaccttc | tttgagaaaa | tgtctattca | 53400 |
| aatctgttgt | ctatttttaa | ttgtttttta | ctgttgtaaa | agtttttcaa | tatattctga | 53460 |
| gtacaagtct | cttatcagag | aattggtttg | caagtgtttt | ctctcgttct | gtgtgggtatc | 53520 |
| tttccacttt | atttgtgggt | aaagttttta | attttaatga | agtccaattt | atctttttttc | 53580 |
| ttcttttgtt | gtttctgctt | ttggtgttat | atgtaagaaa | caattgccta | atccaaagtc | 53640 |
| atgaaaattt | acacttattt | ttttcttaaa | gagttttctg | gctaggtgct | gtgactgatg | 53700 |
| cttacaatcc | cagcactttg | ggaggctgag | gcaggaggat | tgtttgagcc | caggaagctg | 53760 |
| aggctgcctg | cttttgcacc | actccactcc | agcatgggtg | acagagtgag | accttgtctc | 53820 |
| agcgacaata | acaacaacaa | aaagataaga | aacaaagata | aaagagtttt | ctagtttaag | 53880 |
| ctcttaactt | tgagtctttc | ggccgttatg | agttaacttt | tatgtgtgat | atgaagtaga | 53940 |
| agaatccaac | gtcatttgtt | ttgcagttgg | atatccagtt | gtcctagcac | catttgttta | 54000 |
| aaagactgtt | tttttcttat | tgagtgtcct | tggcaccctt | gtgaaagtca | gttgaccata | 54060 |
| aatgtaatgg | tttatttctg | ggttatcagt | tgtattccac | taatctacct | gtttgtcctt | 54120 |
| gtgtaactac | tctactgtct | tgattactat | atcttttttag | gaagttttga | tatagggagg | 54180 |
| ttcgagtcct | ccaacctttg | ttgtactttt | tcaagttttt | cttgattttt | tggatccctt | 54240 |
| atatttccat | atgaattttg | caattggcat | gtcaattttc | gctaaaagac | agctgggatt | 54300 |
| ttgatagtgt | ttgtatttta | gatcaatttg | aggagtgtta | ctgtcttaat | gtctttcaat | 54360 |
| tcatgaacag | gagtctttcc | aattatttaa | gtcatcttta | atttctttcg | acagtgtgtt | 54420 |
| atgtatagtt | catatgtctt | gaaattcttt | tcgctgtatt | cctaagtatc | ttattttttc | 54480 |
| tatgctatta | caaatggaat | tatttaattc | attttcagat | tgtttattgc | tagtgtatag | 54540 |
| aaatacaatt | tttgtatatt | gatattgtgt | cctacagcct | tgctggactc | tcattcatta | 54600 |
| tttctagtag | ctttttgtgg | attccttaga | atttttaaaa | tacatacaac | agaccctcat | 54660 |
| atcattgttt | tgttcagtgt | tgtttcgtta | taatgtgcat | gaggaagaga | aaaaaaaaaca | 54720 |
| attccttgct | ggggccactg | tctgtatggg | atttgtatgt | tctcccatg | tctgcatggg | 54780 |
| gttttctctg | ggtactctgt | ggtttcttcc | cacattctaa | agatgtacac | attaggttca | 54840 |
| ctgggtgtgta | tcagttgtct | cataatgagt | gtgggggtgt | gtgtatgagt | gtgccctgtg | 54900 |
| atggaatggg | gtcctgtcca | gggttggttc | ctgccttgca | ccctgagatg | tcaggatagg | 54960 |
| ctctggccac | ccgtgaccac | gaactggaat | aagcagctta | gaaaatgaat | gaacgaatga | 55020 |

sequece listing.TXT

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| tgcacaacaa | taaatgatgc | agtatgaagg | cacttagaga | tccctccata | tttgttgttt | 55140 |
| ctgaactgtg | tgggtggtgt | aggaggtgct | cctaccacag | tatttgcttt | gcagacattt | 55200 |
| gttccttgat | ttaaccacc | accactacaa | ccaccatcac | tgattcacca | aaaattgtgt | 55260 |
| tttaaaaaat | ctttcttaaa | tgtatatata | gcttacttta | tttcagtgtt | taatagtaga | 55320 |
| agtgttttga | gtctttattt | agatgttttt | tttttttttag | agataggggtc | tttctgtgtc | 55380 |
| atgcaggctg | tagtgtagt | atgtgatctc | agcttgctgc | aacctccgcc | tcctgagttc | 55440 |
| aagttattct | cctgcctcag | cctcccaggt | agctgggatt | acaggcaccg | gccaccatgc | 55500 |
| ccagctaatt | tttgtatttt | tagtagagat | gggggtttcac | catgttgacc | aggctcaaac | 55560 |
| tcgtgacctc | aggatgatctg | cctgccttgg | cctctgaaag | tgctgggatt | acaggcgtga | 55620 |
| gccactgctc | ccgaccttta | tttagaatat | gatgatgttt | ttgtgaccag | aaatatgcca | 55680 |
| tagaaaatga | agtcttgttt | atataaatta | gcctatggta | aaattgggtc | tgttacatgt | 55740 |
| catttcactt | aaagttgcag | tttcagaaa | gctatcctca | acatttaagt | gaggattttac | 55800 |
| tgtataagat | catgttatct | ttaaataagag | tttaatctct | tcctttccaa | tatggatgcc | 55860 |
| ttgtatgtct | ttttcttggc | cagttgcact | gcatagcacc | cccaggacca | gaagtggcaa | 55920 |
| gaatggatgt | acttgtcttg | ttcctagtct | tagggggaaa | gattttttacc | atttagtttg | 55980 |
| atgttagctg | tgggtttttg | tagatgtctct | ttatcagggt | gataatgttc | cattttgttc | 56040 |
| ctagtatgtt | aaatgtttta | tcttgaaagg | gtgttgaggt | ttgtgagatg | ctttttctgc | 56100 |
| atctgttggg | atgatcatgt | ggtttttgtc | cttatcctat | taatatgatt | tattgtgttg | 56160 |
| attgattttc | gtatgtttta | tcaatcttgt | atttctgaga | taaaggccac | ttggccatgg | 56220 |
| tgtataatct | tttttatatg | ttgctcgatc | cagtttgctt | gtattttgtt | ggggattatt | 56280 |
| gcatctatat | tcataaggga | tatttatctg | tagttttcct | ttcttgatg | gtctttgtct | 56340 |
| gattttggta | tcaggattga | acaaacttct | aagttaacta | ataaatctaa | attaactaat | 56400 |
| aattctcttg | ttgaccatta | gaagcaacag | tatttttctc | agaaaaacac | tatatctctc | 56460 |
| agaagggatt | ttaataaagt | tctatacatt | cctcctattg | agaatcattt | atcctgtata | 56520 |
| aacaatcttt | caaaattttt | ttattaaaac | caatttgagg | aatctgtaag | ggactagaaa | 56580 |
| ttttgttggc | aaatgtcaat | taagtcagcc | acactgtttg | gtatcaacta | atattttttt | 56640 |
| cattcttgca | gcttcactaa | caatcttttc | agcttcttta | cggaaaaaga | tggaatttct | 56700 |
| tctgtacttt | gcacagtggg | gttggtggca | gtgtagattg | cctctcaggt | gttcctattc | 56760 |
| taggatatat | tcatattatc | ttatgtgtga | ctatcagtgc | ctagttgtct | catttctctt | 56820 |
| ggctgttctt | ccctttttgt | tttcctccag | ggctctaaag | ggctctgatg | ctccaccaga | 56880 |
| gcattcctag | tacttgtttc | agtatgtctg | tcatgatacc | tgctttgagc | tactctcatg | 56940 |
| tagctgctta | catattttta | ttcagtatgt | gtgggcttac | gtatgtaatt | ttcagagctt | 57000 |
| ttccatttat | tgaagagacc | gtgttcctag | gaaccatatg | acaagaggaa | aggaagtggg | 57060 |
| aggttagggc | ttactatcat | tgagtactgc | tgggccttat | acatgactat | tctggtatca | 57120 |

sequece listing.TXT

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| atactgctag | aattttaact | gttggtgga | tccaaatatt | tattaaccta | acagacaggg | 57240 |
| tgttcttttt | ccaataggaa | agcctactgg | gaaaaataac | actcataaga | ctcttcagta | 57300 |
| gtaccgaata | gaaacagaat | ggggtgaatt | tttttctgat | tatagtcatg | attcatgctt | 57360 |
| gccattagag | tgggaccatt | tcagatggca | cagaaaagag | taaagaagca | agtaaaactc | 57420 |
| attgataatc | ccgttatgca | gagataaaaa | cactgcttag | tagatatact | ttcagacttc | 57480 |
| atagttatat | gtttaatttc | ttttcttttt | tttttttttt | tttccgagat | ggagtctcgc | 57540 |
| tctgttgccc | aggctggagt | gcagtggcgc | aatctcggct | cactgcaacc | tccgcctctc | 57600 |
| gggttcacgc | cattctcctg | cctcagcctc | ctgagtagct | gggactacag | gtgcccacca | 57660 |
| ccaagcccgg | ctaatttttt | tttttgtatt | tttagtagag | acgggggtttc | accgtgttag | 57720 |
| gaaggatggt | ctcgatctcc | tgacctcatg | atccacctgc | ctcggccttc | taaagtgctg | 57780 |
| agattacagg | cgtgagccac | cacgcccggc | catatgttta | atttcttaag | tgagaatata | 57840 |
| ctgtgagtct | ttttgtaaca | tgctgttttc | atttatcatt | atggacatgt | ttctgtgata | 57900 |
| atgtagatct | gtatcacttt | tttttaatgg | ctacacattt | ctcttgcata | aatataacct | 57960 |
| gattttattt | aattagattc | acatagtttt | taaaagtcac | ttttcaacaa | cttaattata | 58020 |
| gttctctact | gtgggaaagt | acttatcaaa | tatattggag | taaagccctg | ttctcggttt | 58080 |
| ttgggtctaa | cagtaggtga | aatattcaca | ttaaaatttg | tcccttattg | attaaactat | 58140 |
| cttggttaatt | tcacttagct | tttcttcttg | gcctttatga | ttcatcttgc | atgttgtaat | 58200 |
| tatctgccta | cactttgccc | atttgttatg | catgcacacg | tataacattt | tgaagcactt | 58260 |
| taatcagcta | agccttcaat | ttggcatcat | acaatggaga | atatgagttt | ttatccatag | 58320 |
| gaatcctggg | ttcagatcca | tgttctgcca | cttattaatg | atgtgatctg | ggcttagtca | 58380 |
| tgtaggagct | gggtttcact | ctttcaagcc | tacctttcat | taggtttggt | tgtttgttta | 58440 |
| agagatgagg | ggtctctgtg | tttcccagcc | tggtctcaaa | ctcctggcct | cccacctcgg | 58500 |
| cctcccaaag | tgctggaatt | acaggcataa | cccactttgc | atagtggctc | attaggtttt | 58560 |
| aataattgaa | agagataatg | ttgtataggc | tactgcagtg | tttggcataa | aggaggtgtg | 58620 |
| gagattggag | aatgtagatc | agcaatcaaa | acatctatca | ggcttaagcg | tatcattttt | 58680 |
| caaactttta | aaaagtttct | ctcatcacgt | tgccataatg | atagagttta | taattgcttg | 58740 |
| aaaaattgta | ggaatatgaa | tttgttattt | tcctaaagtt | ttaataatgt | ctggtactta | 58800 |
| agatatttct | aggaaggttc | aaatcagaag | actggtatga | ataaaaaatat | ttaagcttcc | 58860 |
| ttctcccaa | aaaaatctag | atctaaaaag | gaaggaaata | ttttaaaatt | atattgagca | 58920 |
| cagataatgc | cccagtagta | aaacttcac | ggtttggatc | cactgacagg | gaatttgaat | 58980 |
| gcagtactaa | tgtgtgtatc | tttgactga | ctgtgggtca | tgtaatttcc | ttaagggaaa | 59040 |
| agagagatta | gaagattaat | gccctttatg | gacgataaaa | ctgaaggcca | gagaggttgg | 59100 |
| agtcgtatcc | aaaatcacac | aattgctgag | ctggtacatg | ctaggatgtg | ggtctcttga | 59160 |

sequenece listing.TXT

| | | | | | | | |
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| taaataattc | at | atatatagtc | actacacctg | tttaaacagt | aactctgtta | taatattagg | 59280 |
| aagtttgatt | ag | acattaat | ttatgttgta | cagtgcaaac | ctctcaaadc | taaagtcatt | 59340 |
| gatttcatgg | cc | agggtttta | ctgagtagtt | tttaatgatg | gtaaaaaata | gcaagtacat | 59400 |
| ctgcattttac | tt | ttaactttct | caccaatagt | gattttgaag | gttaattaat | gtttctgagc | 59460 |
| agtttgagaa | cc | actttttat | aaaggagcat | ttgttcatat | gaaaaataga | tttgagaggc | 59520 |
| cgggcatggg | ag | cccacgcc | tgtaatccca | gcactttgag | aggccgaggc | gggcggatca | 59580 |
| tgaggtcagc | ag | atcgagac | catccttcct | aacacggtga | aaccccgctc | ctactaaaaa | 59640 |
| aacaaaaaat | cag | ccggggca | tggtggcggg | cgcctgcccc | agctactcgg | gaggctgagg | 59700 |
| caggagaatg | cc | atgaacct | gggaggcgga | gcttgcaatg | agccgagatc | gcgccactgc | 59760 |
| actccagccc | ggg | cgacagt | gcgagactct | gtctcaaaaa | aaaaaagtaa | aagaaaaata | 59820 |
| tatttgaggg | ac | accttact | tgctgattcc | tttgggctat | tagctttttac | ttaccctata | 59880 |
| atagtaaaaa | ct | tagataag | ctttaaaatt | ctttcccata | tggtttataa | agtaacatgt | 59940 |
| ttacaatata | ac | acaacagt | atagttttatt | aacctaaagt | taataataag | tttgaaattt | 60000 |
| tcttctttat | gt | atttacta | tttaagtatt | gagtaagatg | attgtgattg | tggttaataat | 60060 |
| aacagcaaca | aa | tagcactg | acattttatta | agaattttatt | gtatgctatg | tactctatta | 60120 |
| agtgcctttac | at | taattatc | ttactaatga | aaaatctagt | gaatcacatc | tcaatgagat | 60180 |
| cattcctatt | tt | ttttattga | caaatcatag | ctgtatatat | ttatggggta | caatatgttt | 60240 |
| tgacatgtat | aca | atgtgggt | gtgattaaat | caaacttatt | aaagtaccgc | cttgttacct | 60300 |
| attatTTTTg | tg | gtgagaca | tgaaattttac | tctcagttat | ttgaaataca | tacaactatt | 60360 |
| gactgttgtc | acc | ctgggggt | gcagtaaadc | tcaaaagttt | tttctccttt | ctatctagaa | 60420 |
| actttatgcc | tt | ttgttcat | tcctattttta | atatacattt | tatagatgaa | gaaactgaaa | 60480 |
| tatagaggac | tt | tagtgact | ttcctgaggg | cacgtagctc | gtaagttatt | caaccatttt | 60540 |
| tttagtctag | gt | gacccaac | tatagaacct | aagttttctg | tttgtgtgta | ttaagtcacc | 60600 |
| gtttagggg | aca | aaggcag | cctcacagga | aagagtgatc | ctaccaaggg | ctgtctttat | 60660 |
| catcactccc | cg | tgttctct | cactgtaccc | tcctaataaa | aaaaaaggca | ttaattatta | 60720 |
| gaaccactgt | tag | cagaaaag | atgcttacag | ttaggcctgt | acctttaggg | tttctagggtc | 60780 |
| gcattcattc | tt | caagacct | agctcagttt | ccattttacag | tatttcacag | tcttaacatt | 60840 |
| tcttccagtt | tt | cccttttt | ctgagttctt | atagcagtgc | aatgtttatt | ttataccttc | 60900 |
| attgacttgc | tt | ttatatgt | cttatctttc | ctagaattgt | aatgttggac | aagaccttca | 60960 |
| agaatcagaa | tg | agttttct | cattctgcta | ggttgagtta | cttgaacagt | ttcacctcat | 61020 |
| taagtgtttg | ct | gattgcc | gaaacctatt | agcgttgctc | ttatctcttt | attcaatatg | 61080 |
| acattattcg | ta | atgtccct | ttgacaacct | atagataggc | catttcaagt | tcttgtcagt | 61140 |
| cctcagttgt | g | ctagtacaa | tagtagaaac | tagtggaata | gcactaagcg | ccttttagatg | 61200 |
| ttttaggcag | ggg | ctgtaac | aaacaagttt | gggaatatatt | gaataaatag | ttgaaatcag | 61260 |

sequece listing.TXT

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| accatttagg | caactgaaat | aagtgtttga | atccctgcta | tgtactggac | acagtgatgg | 61380 |
| gcatttaaaa | tatcctaaac | agtactcatg | atatactagc | agcagttaag | ggctttgtac | 61440 |
| taatatccaa | cattgtgcag | ttcacataca | tagttttccc | tacagaagta | cccttaagag | 61500 |
| caaaggaaa | ttacatacat | cttaggggac | cttggggatc | aaaaccaaag | cagccctaaa | 61560 |
| actgtgattt | ttctttgatg | tcacctcttc | ttagaaagag | tatatccata | tttactataa | 61620 |
| atTTTTTtct | cccaattggt | cacagttcag | agagagatta | attacatcag | cctatgaatt | 61680 |
| caagagcact | ttggcacact | tcgggggttct | ccttgccattg | agcataaccc | gattttgaga | 61740 |
| catcaggcta | tgcttacttg | atccccctcag | tggccctgtg | gccatgtcca | agagcagaca | 61800 |
| tgctaaattg | ggctttgtct | gactccttac | tattaataaa | cattatgtaa | atgtgtaaca | 61860 |
| catttacttt | tctTTTTtct | ttgaccacct | aatttttatg | gcattatatc | tatcaactct | 61920 |
| tagaaggaag | tagcttttca | ggtaatcgaa | aggctgtttg | ttttgtcttt | ttctttgtag | 61980 |
| gaaattcttc | ttttaatgat | agccagggtta | agttacaatt | ttgtttctaa | aagacagatc | 62040 |
| ttaagagcag | agttattact | agcacaaaaa | aatcaaataa | gaaaaaaagc | tcattcatat | 62100 |
| gtgtagtttt | tgtatctcgg | cctTTTTtaa | tttattttct | gcataataat | atattttggt | 62160 |
| atcactgaag | tatctcattt | tagtgtgtta | atattttttc | tgttattgga | atatatttat | 62220 |
| tgaattattt | gaatatatag | catgcattgt | atgagatgaa | aaacccaag | atgatttttt | 62280 |
| tggagacaga | gtcctgctct | gtcgcccat | ctggagtga | gaggtgcagt | ctcggctcac | 62340 |
| tgcaacctct | gcctcccg | ttcaagcgat | tctcttgct | cagcctcccg | agtagctgga | 62400 |
| attacaggca | tgcgccacca | tgccctacta | atTTTTgtat | tttcagtaga | gacggagttt | 62460 |
| tgccgtgttg | gccaggctgg | tgtggaatgc | ctgacctcag | gtgatccacc | tgccctagcc | 62520 |
| tcccacagt | ctgggattac | aggcatgaac | caccgcaccc | agcccccaag | attattttta | 62580 |
| gtaactcctt | gttttgatt | agaagtcttc | taggctttgg | agacatttaa | tcattgtgta | 62640 |
| tggctagaat | gatttggtta | tgcagaaata | aatttgaaata | aaaaacattt | cgtgggtcaaa | 62700 |
| aataaagggt | ttataactaat | atacaactaa | gagtgggttt | aaaatgtggg | ttataaagtt | 62760 |
| agtgtttctt | taacttagtg | tttctTTtaa | tttttaggtt | tgattttact | ttatgtagta | 62820 |
| gcgtttttgt | tttcatagat | ggagcaaata | caaattgata | aaataacatt | ctaatttcag | 62880 |
| atttcttttt | caatttttag | ttgttgacct | cctgtactgg | agagacatta | agaagactgg | 62940 |
| agtgggtgtt | ggtgccagcc | tattcctgct | gctttcattg | acagtattca | gcattgtgag | 63000 |
| cgtaacagcc | tacattgcct | tggccctgct | ctctgtgacc | atcagcttta | ggatatacaa | 63060 |
| gggtgtgatc | caagctatcc | agaaatcaga | tgaaggccac | ccattcaggt | gagatgtctg | 63120 |
| gaaaacaagg | catgcattgg | caatagtgtta | aacaggattg | gtattaagac | ttcatctact | 63180 |
| gtctatagag | ttacaagcat | gcattttttt | gttaaagata | attgcagtta | tttgcttgag | 63240 |
| ctataccaaa | aacatctgct | tttgagattt | tctaaaagtc | gttttaaagg | ctcatgatgg | 63300 |

sequenece listing.TXT

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| ttaagcattg | gttatcttac | ttgaatgagt | gttgtatctt | tttaacatgg | gtaggtttga | 63420 |
| tgaggatatt | ctttattgct | ttttatgctg | tctgataacg | tgctttctga | tatttcgtat | 63480 |
| ctttctagta | tgctgatggt | ttctgttatg | cttttcttta | tgtattttct | ttatctagtt | 63540 |
| tcttctcggt | tcttaaggct | ttacttttta | attatttttt | ggagagcttt | atttcagcat | 63600 |
| ctccttgtct | ctcaactatc | atcttctacc | cttgttttca | caagtatact | atagcattat | 63660 |
| atagttgcta | tggagacaca | acctcagctt | gagtcttctg | ccctcacctc | atactctgcg | 63720 |
| tgtttttccc | cctctttttt | aattgacata | taattcatat | accataaaaac | tcattgggtt | 63780 |
| ttagtatatt | cacagaattc | tacaaccatc | actattttca | tcgcacaaaa | agaaacttcc | 63840 |
| tacttattaa | cagttcaact | ccccaaccaa | cgcccgacaa | cgactaattc | accacgtttt | 63900 |
| taaatgaact | tttcccctca | aacttgttaa | tttctatcca | taacaccact | accatgctag | 63960 |
| ttttcaggct | cctgttttga | tgttatcttt | gttttcatct | catataaaga | aatcactaa | 64020 |
| atattgttag | gaaaatcaca | aaattttgtt | cttttccact | gcttcctcag | tctaaccagg | 64080 |
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| ttggaacaca | gccatgctca | ttcatgtagc | tggtttcgta | ctgtaatagc | agaattcagt | 64200 |
| agttttaaga | gagaccatat | ggacgtgaaa | gcctaaaatg | cttaactatc | tggcccttta | 64260 |
| cagaaagttt | gctgaccctt | aattggactc | catttgttac | tacattgact | tgtagttacc | 64320 |
| tcggattact | tcagttctta | cagatgatgt | ccgattaatt | tttctagaag | taccactttt | 64380 |
| tttctaaaga | gaaaaaaaaac | aaaagaaaat | gcaccggccc | tctatagact | gtaggatgaa | 64440 |
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| tgctgccttc | cttagctgcc | tcagtcatac | tttttatttg | gttcttagtt | tggttcaaga | 64560 |
| cccagctctt | tggagaattt | cctaaccctg | accccaaatg | atccgaaaat | tcagttccta | 64620 |
| ctgcattaac | taagcctttg | aatgtttaat | tgttttgcat | aaggagatca | tttttcttca | 64680 |
| aatagattga | gataatttaa | aaactatttc | taacttgtta | gcttgaaagt | aggggaaaca | 64740 |
| aaggaaaaaa | ctatttgtag | caaggtaata | tctgtttggg | catatgacta | tgtacctacc | 64800 |
| tacaacatga | tccagttgat | attaatgggt | aaacttaaat | ggattttacag | actttgaaag | 64860 |
| aggagaccta | ctgaattatt | ttgtttattg | taaagactgg | tgatttttct | ctggctttct | 64920 |
| ctttgtgatg | aagtaatgat | gttatacaag | tttaggggga | gagaccaaca | tttattgaat | 64980 |
| agctcctatg | tgtctaacct | tttatgtaca | tattttaata | agttttat | aaatttgtag | 65040 |
| taattctgtg | agataggtag | tatcactcca | ttttatgggg | tgatggggaa | aaagttggaa | 65100 |
| ttcagtaact | tgaattgta | gtttgaaaat | ggcagagcca | gccaaacgtg | ttggctcatg | 65160 |
| cctgtaatac | tagtgctttg | ggatcctgag | gcaggaggat | tgcttgaagc | caggagttgg | 65220 |
| agaccaccct | gggcaacata | gtgagactcc | catctctaca | aaaaattaaa | aattagccag | 65280 |
| gtgtggtgat | gcatgccagt | agtcccagct | attcaggcag | ctgagctaag | aaaattgcta | 65340 |
| gaaccaggga | gttcaaggct | gcagtgagct | gtgatcatgc | cactatactc | cagcctaagc | 65400 |

sequece listing.TXT

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| aatagaacga | gactctttca | aaaaaaaaa | aaaaaaaaa | aaaaaggccg | agtcataatta | 65460 |
| ttatcaagcc | acaaatcata | aagaagtatg | atttttaatt | agttatgctg | aaatatgtaa | 65520 |
| aaatattgtc | aagccaaaac | ttctaaatth | tctaccgttc | caatthttaca | catcattttga | 65580 |
| tttttgaggt | ttttggaaaa | tattagtgat | ttatttcctt | cttagaaaaca | actttattca | 65640 |
| ttttttaaac | tttcttcaaa | gagatgggtc | tcactgtgtc | gccaggcta | gtctcgaact | 65700 |
| cctggactca | agcaatcctc | ctgcctcaat | gtcccaagta | gctgggacta | caggcatgca | 65760 |
| ccactgtgcc | tggctagaaa | cactttatat | tcttaaagtc | cttttatagt | cattataaag | 65820 |
| taaattcagc | caacatacca | gtttaagctt | gttggacagt | ttttcctagt | acccttaaat | 65880 |
| catactagta | gaggtgatat | tatgtggtht | gtatctaata | cctgtggtht | ctgagtgatg | 65940 |
| aacagtgtctg | gcattgtatt | aatatcacat | aatgtcagt | tgaattagt | taaatatcta | 66000 |
| caggatgtca | ttgatgggga | gtactgtctt | tatggcttct | gcttaggcat | cttgtcttca | 66060 |
| gcaagaacaa | gtaacagtgg | tacaaagaag | cagaatacca | accagggtta | tatcagccac | 66120 |
| tttcctatat | ttctcaaatt | tgggtaaaca | aataattgct | ggthtaata | tcagtgcgag | 66180 |
| tatttgagta | ttthtaactt | gatattaata | attcagthtt | ttgttaataa | ttgtctaaca | 66240 |
| gtgtgttaga | ccatgtatta | gtaaagatac | attcctggtc | cataacagct | tatactctag | 66300 |
| taggaaaaat | atacaagtat | acatgtgtct | atatttcaga | gctgaatcta | gtaaatacta | 66360 |
| taagactaac | acaaaagaaa | gcattgttag | aattatacag | gagtggagaga | gaacatcagg | 66420 |
| gttttatgaa | agagattggc | agataaggct | ctatgtatgg | gtgagatttg | agatggggct | 66480 |
| aactggctaa | ataaggatat | accagaggta | agagagcatt | gcagattggg | aaaaccatat | 66540 |
| gattaataag | ggctacatta | aggthaaaaa | atacttagtg | aatgactcat | ttctggctgc | 66600 |
| aacataaaga | gtagttggaa | gtaaggthtg | aaagatttag | gaggatgtcc | ctggttgaaa | 66660 |
| agttggagtc | atagaatcac | agaatgtthg | agcctgaagg | aactgaggaa | agtctgtthc | 66720 |
| tcaaatttac | agagthggag | cacttaccca | gagaagthta | atgcctthtg | caatgttgta | 66780 |
| tagctaggta | gtggcaggct | ttctaactct | tgcttgagth | cagcctagac | agcactatct | 66840 |
| aagatagctc | acataaggth | attctggcat | tggctgacgg | aatggatttg | gatgcaggca | 66900 |
| gatcagagat | tggthtgag | agtgatagaa | tattccagct | cgtaaatagt | aagtgcthta | 66960 |
| aatagagtga | tggcactgtg | aataaaaacc | aggagacata | tttggggcat | gttgacagagg | 67020 |
| taaaactatg | ggacaaggag | ttgtctaaga | tgthattthc | actgtaagaa | actggcatcc | 67080 |
| tgagacatag | ggaggthtatg | aggactactt | ccaacagata | cgagggaaca | ctcagcactt | 67140 |
| ctgagthtggt | tgtaccctgc | caagataaaa | tggctthctth | gaaacagtaa | tgaactgtth | 67200 |
| tcttacattc | ctgtggactt | gactthttthc | ccagtatagt | atthttatth | atthatttat | 67260 |
| ttattthattt | atthattacc | aatacaatac | ththaaatth | aacaattthta | gccatctcgg | 67320 |
| tatggattaa | aacatctaga | tgatgtaact | cttatgttht | gctaggattg | ctactgtgct | 67380 |
| thtggcagcc | actthacaat | ctggtgcttg | acatattgaa | caattthccc | taaaggthtag | 67440 |

sequece listing.TXT

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| aacatagtgt | caactttaag | aaaaaaaaaa | aaacaaccat | agtcataact | accattttact | 67560 |
| gagtgcatcc | ttgtgctcag | ttgcattagg | cactttttctc | actgaattct | catgataatc | 67620 |
| tccactttat | aaatgaggaa | actaagttta | gaggggaagaa | taaataactt | tgcaaaaatta | 67680 |
| cctagccagg | taagtggcag | agcatcagat | tcaagcccag | atcagtctgg | cttcaaagtg | 67740 |
| tatgcttttt | ctgtgctagt | cagcagacag | tgcatatcaa | ggaaataccc | cttactgctg | 67800 |
| agtttttata | ttgcccctaa | tttgaaaca | gttggctttt | atagtagaat | attttcttaa | 67860 |
| tttcttacag | atatataatt | tctgattgac | atthagggga | aaatcactcc | aatttagtgac | 67920 |
| aattatgatg | tgttttgttt | tctagggcat | atctggaatc | tgaagttgct | atatctgagg | 67980 |
| agttggttca | gaagtacagt | aattctgctc | ttggatcatgt | gaactgcacg | ataaaggaac | 68040 |
| tcaggcgcct | cttcttagtt | gatgatttag | ttgattctct | gaaggtaagt | ttattttgcc | 68100 |
| tttcattttt | gatataccca | gaatttagta | tcaagagagt | tgagtgtaaa | attctgttct | 68160 |
| tctatattca | agtaaagtat | aaatattaat | taaatcacat | ggctgtaaac | ttgtgtttta | 68220 |
| aaattcagaa | tccaatcaaa | taaggatgaa | gaagtgtctat | tccctttttt | tttctggtca | 68280 |
| tacttaatac | agagagtcct | gtattccttt | ttaaaggaga | ataagttata | aatcatactt | 68340 |
| gtgggccggg | tgtggtggct | cacacctgta | atcctagcac | tttgggaggg | cgaggcgggt | 68400 |
| ggattacctg | aggtcaggag | tttgagacta | gcctggccaa | catggagaaa | ccccgtctct | 68460 |
| actaaaaata | caaaattagc | caggcgtggg | ggtgcatgcc | tgtaatccca | gctactcagg | 68520 |
| aagctgaggc | acaggagaat | cgcttgaacc | cgggaggcag | aggtttcggg | gagctgagggt | 68580 |
| cacgccattg | cattccagcc | tgggcaacaa | gagtgaact | ctgtctcaaa | aaaaaattat | 68640 |
| atatatatat | agtaatactt | tcggaaatca | taaagattaa | aaggaaagga | aattaatcgg | 68700 |
| aattttgact | ataagcataa | agatcgtcta | atgcattatc | agattttattc | attctgactt | 68760 |
| tgctttacag | tctagcactt | atgtacatga | aagctatttc | atatcttgga | ctctttctta | 68820 |
| ttctagataa | gatttaatat | tctgaaacac | ttcaactaat | cttcaactgg | taatcattgg | 68880 |
| aagtttttct | ttagtttttg | gatctcgcta | cataagcagc | tgtaagaggt | ctcaccttgc | 68940 |
| aaataaaactc | tcccaaagtt | ctgactgacg | aaacaggcac | taaaccacag | ttgtgtaatt | 69000 |
| taagcctgaa | gcactggacc | tgtagtgcct | ttctttttca | tagaacttgt | catttggtgtt | 69060 |
| gtatatgctc | tttctgtga | ctctgcagaa | aacaggcaga | cttgtttcca | atctaagcct | 69120 |
| gggcagaaat | gtagtggtgg | taattctcat | aatttttcat | ttttcatttc | caagagaaat | 69180 |
| gttctagttt | atatttatca | cacatgccaa | ggatatagta | gtaataaggt | gactgggcct | 69240 |
| ttagactcag | aaaaacaatt | tctgaactgg | tcagaatagg | tttaagtgt | taaagtgtct | 69300 |
| tttaaaaaaa | aaaaacaaaa | acatttttagc | ctttataacc | tagtagttga | tacgttattt | 69360 |
| tcagctgttt | gcgtctctgg | gcttacaggt | atgagccact | gcgcccagcc | gcattcttta | 69420 |
| ttttatttta | tgacttgga | cttaagttac | ttcctaataa | catcaagggt | aaataatgta | 69480 |
| gtttcctttt | attacttacc | tctttcgtat | agagtgggtg | catttagtga | ctaaatctgt | 69540 |

sequece listing.TXT

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| ttggcatgct | tggttaataa | gtttcaaaag | agatcaacta | aaaatatattt | ggagcaaagt | 69660 |
| aaatagaacc | ttgtacatac | agcctagagg | aaaccagttc | ctattcatgt | attattacct | 69720 |
| tctatacgta | gctgacttct | agggtagaac | atgtgtgaaa | agtgattgag | gaggaggtac | 69780 |
| tgatgccgct | taagatggat | ggtttgtggg | taggaattga | ctgagaagaa | atactgtctg | 69840 |
| taagtagtaa | ttcagagctt | caaacagcaa | aggaccatct | ctgaatttag | tagtcaaaga | 69900 |
| ttggtggggg | agagaggtga | cttcaaagaa | aagcctggtg | agcttagggg | agaggagaga | 69960 |
| tgcttgttgt | ttttatagat | tcaataaaca | cggcaacaga | gatacaccaa | aagtcatcct | 70020 |
| cgatgtttgc | acagtatagc | agtgaaggca | gctatatgtc | tacaatttaa | catttttctt | 70080 |
| gagagaaatg | tcattcttga | ataaatctat | ttttaaaatt | gatctgggaa | tgattcatta | 70140 |
| tgctctagtt | ttctgagttt | gagtataaag | tttccacttg | tctttaatca | aaagaaaact | 70200 |
| tatttattct | ttcagagaaa | attttcatcc | atacacagtc | cattgtgtag | atacggggca | 70260 |
| agaggagaga | gaaaatgtta | gaaaggggct | gatgagatct | taagaaacat | tttaaattctc | 70320 |
| tgttttgcac | acgtatttga | gaatcgaata | tgaggacttt | ttaaaaaaag | ttttgagaaa | 70380 |
| taatttcttt | gttaaattctt | atattttaat | ttcttttgaa | aactacattt | ttttgtaaaa | 70440 |
| gcaattatgt | tattcatgag | gaagctagca | taaatgagag | aaatcgaact | tgataagttc | 70500 |
| ttgcattgag | tgactgctaa | tttgaaagta | acagaaagta | acacatgatg | agacagattt | 70560 |
| cctttctgga | acacttggtg | tttcttagta | ttgaaaaaaa | ggactttcat | taaaattata | 70620 |
| atttatcctt | aaggattagc | aatcctttta | aaaagagaag | agaagaaaaa | cgtacttgat | 70680 |
| tggtttccct | gagttgtgtt | tttggaagc | ccagagctca | aggaaacctg | cttggtgact | 70740 |
| tccccagctg | gcaattcatt | taggactgca | aataagtaac | agttgcctca | tcattgttagc | 70800 |
| acttaaagtg | aacctggcat | ttagatctca | aaatctagag | gcaaatgaat | aaggcagggg | 70860 |
| atctgtcctt | ttctccccat | gaaaggtaaa | gcccttggtg | attcaggtgc | acactctgat | 70920 |
| aatgtacatg | aaaggtcttc | cttgataaac | gataaacctt | gtgattttgc | cacacaagaa | 70980 |
| tttagctaaa | ccctttccta | atgtcattgt | atatgagtag | tacagattcc | atgtgtttgt | 71040 |
| ttccattgaa | tatacagaaa | tactgaatac | ttccttaaaa | cagcttttat | tgaaaaaagg | 71100 |
| aagctgataa | aaatcacttt | gcttttttat | aaaaacgctt | gataggatta | cctttctaga | 71160 |
| gagacttctg | tgtatggcca | cacttatcca | ccacagtttt | tgtttatata | gagagcattt | 71220 |
| taaaaagaag | aaggttttcc | tggccatgca | cagtagctca | cgcctgtaat | cccagcactt | 71280 |
| tgggaggcca | aggcggaagg | attgcttgag | gccaggagtt | tgagaccagc | ctaggcaaca | 71340 |
| ttgtgagact | gtttctataa | aaaaaaaaaa | actgaaaaat | cagccagcca | tggtcgccca | 71400 |
| tgctttagtg | cccagctact | tgggaggctg | aggcaagagg | attcttgagc | ccaggagggtg | 71460 |
| gaggatgcag | tgagccataa | tcataccact | gcattccagc | cacggcaaca | gagtgcagacc | 71520 |
| ctgtctgttt | aaaaaaaaaa | aaaaaattat | taaaatctta | atcttaagtt | ccttaatagt | 71580 |

sequece listing.TXT

| | | | | | | |
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| ggactgtatt | actttttgcc | ttttagccac | aaaaactggt | agggaaagtt | atattctgtc | 71640 |
| accctaaagc | aagcaaaaaa | tgtttttcca | attcccattc | tttttttact | ttttcaacat | 71700 |
| aaggaaaaat | gtattttacct | tgtttaaacg | gattttatfff | aatgccttac | agtcagattt | 71760 |
| taaatttatg | ggaagtttgc | taatagctcc | agtctctcca | gttgagatga | atgttttttc | 71820 |
| ttattttaa | aatgagttg | ttttttaa | ttataggaag | tagcttttta | ttggaattac | 71880 |
| attgatttta | tatgattcat | agctaggaaa | atggaaacca | tcttaatttc | aggaaaatgt | 71940 |
| agtagaaatt | actctcattt | ctaaattttt | gtcattttaga | aaagacattt | ttatcaagct | 72000 |
| ctgtgtttac | aaaataatag | tttttaaaca | acaatttgaa | agaagtatct | ctataactca | 72060 |
| ttgtcttcat | aatgcaaaa | tctgtttgtg | gccctcaa | ttatatctac | atfttttagat | 72120 |
| tctgggtcac | aattatcact | agctcttttt | tttttttttt | tttttttgga | gatagagtct | 72180 |
| cgctgtgtca | cccaggctgg | agggcggtgg | tgcgatctta | ggctcactgc | aacctttgcc | 72240 |
| ttccagggtc | aagtgattct | cctgcttcag | cctcccaagt | agctgggact | acagggtgtcc | 72300 |
| gccaccacgc | ccagctaatt | tttgtatttt | tagaagagat | ggggttttgc | caagttggcc | 72360 |
| agactgggtc | cgaactcctg | acctcaggtg | atctgcctgc | cttggcctcc | cagagtgtctg | 72420 |
| ggattacagg | tgtgagccac | catgcccagc | ctacaattat | gactattttc | atgtgaaacc | 72480 |
| atcttcctca | gaaattgaaa | tttttagagc | gctcttgcta | gcatgtgaaa | ccttttcctt | 72540 |
| gcttattgcc | ttttggcggg | ggcagtgaag | gaggagcctg | gcctttcaaa | atgtgatcaa | 72600 |
| aaaaataacc | aaactccagg | gctcattagt | cctttttata | acaccggtgt | gaaatgatgg | 72660 |
| gtatccgtgt | gcctgggtcca | agtttcctgg | tggttgactt | gggcgaataa | aaataagaca | 72720 |
| tgttctgcag | agttctcctt | ttaaattctt | gtgtaatatt | ccgtttgttt | tgctcctttg | 72780 |
| caattaacta | caaacttcta | agtcctagaa | aagatttcaa | gtattttatag | agtgagcaac | 72840 |
| gatcattttc | ctagtcaaat | agtatggcaa | aatcactgtt | tttaaaaagt | tgtggcatta | 72900 |
| aactataaat | cctccctccc | ctcgcttccc | acccgcaatt | atgaaagaaa | agcatatgac | 72960 |
| aatgcctact | gggctcagct | tttgggctaa | ttgagtctga | ctgagccttc | ttagcagggt | 73020 |
| cctgtctttt | gaaacctcaa | atcccaaaaa | gctgtctaat | aattttactt | ttttaggggac | 73080 |
| taagaccagg | tattttcagc | agaggttctt | acttttctgt | aattgaggcg | caactataat | 73140 |
| gttcagaaac | acaatcttaa | atctgaaagt | gagaggaaga | aaaaaaaaaa | aacggcctga | 73200 |
| gctccagaaa | tagctgacct | agaagaacac | taaaatctag | ctctcaggct | cataggcagc | 73260 |
| tgtaaacatt | cacattttga | cagcttcctt | tcaggtttct | tgagctctca | gaaaaattag | 73320 |
| aaggaagtgg | gctggggata | tagagagagt | caaactacc | aactaatgaa | tgaatctgaa | 73380 |
| ggagacacag | aagggaagt | agagttttaga | gtttgagagt | gcaggaaagt | tttgaaatgg | 73440 |
| tcagaactgc | cagagtaatt | tctgagatct | tactaagcac | tctcccaccg | tttgccttaa | 73500 |
| agatacccct | ttccccaagt | tgaacatca | caaactctga | gagctcttta | atcagggtgtg | 73560 |
| ttatacacag | tgaattta | tctcttattg | ccctggaaga | aagataaacc | agatgtggcc | 73620 |
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sequece listing.TXT

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| tataatgttg | caaagtat | gccatggaat | cgtgtagaat | ttgttaagtc | caaaatgaga | 73800 |
| gcagcctgtt | tgcttcttta | aagtgtttat | tgaccttatt | cctgccatgt | tacaaatcca | 73860 |
| tcatttgtgg | tggattccca | ttaataatgg | ttactctcta | ggttagttct | tgctgccacc | 73920 |
| cctttctctc | ctgggtggtg | gttccttgaa | tacacttaac | cactatttct | gttttgggcc | 73980 |
| gccgaagtat | tcagttttct | caacatagct | gcaacattta | aaaattatat | gatagcacac | 74040 |
| aaaagtgtac | atttctggca | acactggcct | ggaatatttg | catggccaca | gcgtatggag | 74100 |
| cagggttgta | agtgccctt | tgagaggaag | aatgcatatc | actgtgtgcc | tcagttctct | 74160 |
| cccagcctct | cacatacatg | tatgtcacct | gcctggccct | aaggacattt | gagacctccc | 74220 |
| tgtgttcttc | tctttgtctt | gggtagcct | ggcttttagg | aagtgttctc | aaagaggcaa | 74280 |
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| tatggaaggt | caacactttt | ccctttagac | ttgtggatag | tgatggataa | aaataactct | 74520 |
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| ctataaaact | gtgagagaaa | agccttacta | actgaagtca | tccttcaaac | ctttctacca | 74640 |
| ggggttccaa | tagcaattgc | taagaatacg | gcagcttaaa | aaaatttttt | ttcaattgac | 74700 |
| agatattaag | aatgcctgat | atttactgac | ttgaacatta | gttaaattca | gttaggggtga | 74760 |
| ccagagtgtt | gctatttcta | gaactgttgc | ttggtagagt | catccaaagt | gtcttcctaa | 74820 |
| gctgtaataa | atatgcttac | taatgtttga | ctgcttaatt | aatggtcagt | aagcattcag | 74880 |
| tcagagtctg | tttaatacat | ggagaaagat | atatgcttta | gatcaagggg | tagcaaacca | 74940 |
| ctgcttgttt | gggccacggc | ctgtttttgt | atagtgtggg | agctaagagt | gggtggtgta | 75000 |
| catttttaaa | gggttatgac | aacgacacag | aataatatga | gacacaaacc | ctatgtggcc | 75060 |
| cataaaacct | aaaattctac | tgtctggctc | ttcacagaga | aagtttgctg | atccccgctt | 75120 |
| tagataatgg | gggtgctcta | ctactcccct | tttcatttat | agtgttacat | aagcctaaat | 75180 |
| aatcactgta | gctggtggca | tcattgtttg | tacctactaa | gtaggtcaaa | gtgattgcca | 75240 |
| gacatacaca | tgaaggcctt | gaattagaaa | gcaaaggaac | tgatgatgac | caatgtttta | 75300 |
| caaaattcag | actgactttg | tgctgatcc | ttcaaaggct | agaggtgata | tttttgggtac | 75360 |
| ctgaaacgta | atttccctga | taagtactct | ttgcccaatt | attgcttatc | agctgagata | 75420 |
| ttaatgtctg | aattattcag | ctcatatatc | ttcaagcact | caactagttc | atactttgaa | 75480 |
| atcaattcta | atagacaatt | ctcataacac | ctttatagtc | ttcccattta | aaaggtaaata | 75540 |
| gttggttaggg | ctggaggggt | aagatgcacc | cttggtatat | tgtctgatct | cagcagaatc | 75600 |
| aactacttgg | tagtgtagtc | cagagaaaat | gggtcaaata | tattaattat | tttaggattt | 75660 |
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sequece listing.TXT

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| taagaaactt | tacttgaatt | ttgtttataa | tgggctaattg | ttattttctt | atagtttgca | 75840 |
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sequece listing.TXT

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| cctctgtgta | gtgccagttt | tctatcctta | ttatatattg | aatcatactt | aatacaatgc | 1920 |
| attaaattat | gtaccacttt | ttttatatac | agtatcgaac | tcattgtttt | gccattcatc | 1980 |
| cgttcagaat | atcagaagca | gttttgaaac | gaattaataa | attagctact | gttcatcagc | 2040 |
| cccaattcta | aataagctct | tagattttcc | tcagcccatc | tgttactttc | aaaattttct | 2100 |
| catttgaaaa | cttggaacc | ttggattgga | tggaattcata | tttcttagta | tagaagttct | 2160 |
| tgatataact | gaaaaattaa | gttaaact | taataagtgg | tggttactca | gcacttttag | 2220 |
| atgctgttta | taatagatga | ccttttctaa | ctaatttaca | gttttttgaa | agataactga | 2280 |
| gagggttgagg | gacggagatt | ttcttcaagc | aatttttttt | ttcattttta | atgagctccc | 2340 |
| aatgtcggag | tttggaac | aaatttgtct | ttttaaaaga | aggtctagga | aactcaaac | 2400 |
| ctgaagaatt | ggaagaaatc | agaatagaaa | atgggtatgg | ttatgatact | gtagatttaa | 2460 |

sequece listing.TXT

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| cgaggacat | ttcatgttgt | tcctagttat | aggggctgaa | cttatttaaat | agcacgtgca | 2520 |
| ttttgatttt | tagattttta | agggaaatgtc | aagagagtaa | tgattctgtt | tcaggcttca | 2580 |
| ggccagactc | cttcagagtt | ttccaaaaca | aataattact | gaatcattaa | agtaaaattt | 2640 |
| ctgagaatag | atattcctta | atttccttca | ttaacttttg | ccattaaaag | tcaagaagct | 2700 |
| ctctcattta | ttagcaaact | tttctcctta | tgattctatt | ttgattgtcc | ttttgtttga | 2760 |
| ggaagcagca | tatggtgggt | aagagcatag | gatctagagg | cagataacctc | tgagttaagg | 2820 |
| gtcccagccc | ttcacttgtg | agcttgagca | agttactgaa | tgccctctgag | cctctttcct | 2880 |
| ccttttgaaa | tgatgataag | aatagcagcc | atctgagcag | ttattgtaaa | ggttaaatga | 2940 |
| gataatgctt | gtgaagcact | tagcccattg | caggagtctt | gatgacactg | tgtacttgaa | 3000 |
| aatagatgtt | acctgttaaa | attcttggtt | aaacttccac | aactcttaaa | actctttttt | 3060 |
| gctagtcctt | ccagctgttt | ccttttagttt | cttttctgtg | tcttcatgca | tcttttctat | 3120 |
| ctcctgaaag | tgaaaagact | aacattggat | ccagagcttg | aaaagcggtt | ttttcctgtt | 3180 |
| acaatgggca | aaagagtaca | tccttgggtt | atattggcac | ctagtatcag | ttatTTTTct | 3240 |
| tgagcatctg | atctgctctc | tactctagt | gaggcctcct | gcttcacaat | tgctcacccc | 3300 |
| tgtgttttct | ccccaaatag | aatactgagt | ttactctgga | ctctagagtc | aaacatacac | 3360 |
| agtattctag | tcttactgtt | catttaagca | agatatgtgc | aagacactgc | attcttagta | 3420 |
| ctggcagtaa | gttaaaacat | ttttcgtctt | gatgccaaag | tttagacaat | tttataaaaa | 3480 |
| ttaacctttg | taaaagataa | tgagttgata | aaatattctc | agtaaagcag | ctacgtggta | 3540 |
| gaaaaactgt | cctttgctta | tgagtttctc | cagagttaag | accattgggt | tccatctgaa | 3600 |
| ggcaagactt | caagcttgtc | ttactggctt | gttttgtggc | tcaatttgta | tgaagtctat | 3660 |
| gcactcttcc | acacgttgtg | atttactgaa | ctatcgagtt | atttttagact | gagaaagtat | 3720 |
| tgaggttcat | tcctacggct | cactgcagag | caccttggtc | agtttgagga | atgtcaactt | 3780 |
| ttctacctgt | taacttccat | tgtctttact | tttaacgcca | ttgtctgtga | ctctaattgt | 3840 |
| gtcacggctc | agggtttaga | ttttgtgggt | acattctatt | cttgatgtgc | aagagtgggtg | 3900 |
| tatagaaagc | tgagggggat | tatttagtct | cttgactgat | tttttttttt | tttctgaaga | 3960 |
| actcagttta | ttatgttttg | tggtgaaata | aaaattgatg | tgcatggatg | ttaaagattt | 4020 |
| gggttaaat | gtgtgttcat | agatgccttc | tcttagtata | taatttttta | aatttagata | 4080 |
| cttaaaatac | tgtatccctt | tatctaagat | taacataagt | ctgtttctta | accaggataa | 4140 |
| aaaaatctaa | atttaaatgt | gatgttggat | gagtttccaa | tcaagaaatt | gattttttta | 4200 |
| actttgtgac | tagttatcca | gtgggtggat | tttaccagct | gtgtgtatgt | gttttctgct | 4260 |
| taactctgga | aggttagaaa | gagaatttga | aactaagaca | agccaagctt | cttgttgctc | 4320 |
| agtatttttg | gtaaaaatat | ggtcagattg | tttaaattaa | ctataggctt | tggaatttta | 4380 |
| aaaataatta | tatctcttgg | tctcttgaca | catcaagaat | taactgtttt | gtatatgcgt | 4440 |
| tgagtattaa | tgttcatgtt | ttctgcagta | gaaatttata | aacccttatt | tatttgccag | 4500 |
| acatgatccc | tttagagaaa | tctagtatct | aaaacctgaa | tttttaaaac | aaaatttaaa | 4560 |

sequece listing.TXT

| | | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------------|------|
| atTTTTgttt | cataaaaaaca | aaaatgtgat | tacctcatgg | ctTTTTtctt | atagctTTTTg | 4620 | |
| attgtTTTTt | aaaatcgtag | ttcaaaaaaca | ttaacctaaa | atTTaccatc | ttaaccattt | 4680 | |
| ctaagtactg | ttcagtagtg | ttaagtatat | tcacattgtg | ccactaactt | ccagaacttt | 4740 | |
| ttcatcttgc | aaagctgaaa | tcttaccat | taaacaactc | ccaatttccc | cctctcctca | 4800 | |
| gcctctggca | accaccattt | tactttctgt | ttctgcaaat | ttaactactc | tagatgcctc | 4860 | |
| atataaatag | aattataggg | ttttaatat | tttgtgatgg | gcttatttca | ctttgtgtaa | 4920 | |
| tgtcctcaag | gttcatccat | gttgtagcat | gtgtcagaat | ttccttcctt | tttgagtctg | 4980 | |
| agcaatattc | cattatatgt | tccatatttt | gtttctccat | tcattccagca | acggacactt | 5040 | |
| gggttgcttc | cacatcttgg | ttattgtgct | gctctgaaca | tgagtctgca | aatctctctt | 5100 | |
| tgaagctttc | actTTTTttg | gatacatatc | cagaagaggg | atgctggatc | atatggtaac | 5160 | |
| cctTTTTaat | tttcaaggaa | ccaccatatt | gttttctata | gcagttgcac | cagttttacat | 5220 | |
| tcccaccaac | agtgacacaag | ggttcctatt | tctccacatc | cttctaaaca | cttgTTTTct | 5280 | |
| ttctttcctt | ccttctcttc | tctttctttc | ttagccatct | aatgtggcaa | agtggtagcc | 5340 | |
| atctaatatg | ttgaagtgat | tgTTTTtaag | ggcttgTTTTg | tggataatta | accagctgaa | 5400 | |
| agctaactac | agtttgccag | tggaagcttt | aactgaaagg | agagtaagta | cctctaaaag | 5460 | |
| gagaattcaa | tttttctagt | gacttagatt | tgttatgcc | gtactTTTTc | acagaaacac | 5520 | |
| tttttgggta | aaatagtgt | cacctgttct | attgttgata | aagcccaatt | taattaggaa | 5580 | |
| atttgttctc | taagatttaa | aacaataatt | gaaataatgt | atTTTTatta | aaaactgttc | 5640 | |
| ccaagatgtt | agctTTTTagc | tgttctggtg | atctcaactg | ttatttatga | gtgtttcttt | 5700 | |
| atTTtaaaat | ttcaccttaa | ccggttacag | TTTTaaccat | aaagattatt | tcaacatatg | 5760 | |
| atTTtgaaaa | tttattatct | tgtaaattggg | aaaatgtagt | gatggaacat | agttttactgt | 5820 | |
| atgtagttct | tcacttgttt | gaaaagtcac | aatatatTTa | ggcaaattaa | TTtaaaagtg | 5880 | |
| tctagtattt | aatattgcaa | ttttcactca | ttaaggacag | gtcccccg | tttccccctt | 5940 | |
| TTTTTTTTcc | aagtagtttg | ggaggatttg | TTTTccagc | tgaaaaatac | tatggttaaa | 6000 | |
| aataagggtt | aaaggcgaaa | gttgaagtct | ttgaggggtg | ggatacgttt | ctgttcttaa | 6060 | |
| gagtccttga | aattcagatg | ctaagcaa | ttctTTaaaa | tgatttctac | cctccccctt | 6120 | |
| tccattataa | aactggatat | gtttcagtg | accaa | atccc | aagtaggctg | aatttgaaat | 6180 |
| ttgtgggctg | ggcgcggtg | ctcatgctt | taatcccag | t | actttgggat | gccgaggtg | 6240 |
| gtggatcacc | tgaggtcagg | agttcgagac | cagcctggcc | aacatggtga | aaccccatct | | 6300 |
| ctactaaaaa | tacaaaatt | agccaggcgt | gggtggcggt | gcctgtaatc | ccagctactt | | 6360 |
| aggaggctga | ggcaggagaa | ttgcttgaac | ctgggagggc | gaggttg | cg | tgagccaaga | 6420 |
| tcgccccatt | gcactccagc | ctgggtgaca | gagcaagact | gtgtttcaaa | aaaattaaaa | | 6480 |
| aagaaatctg | tggtgtgaat | actggtacgt | ggtgtacaca | gtgagctctt | aataagtatt | | 6540 |
| tgaattaaca | aatgagacaa | tgattgaata | attggatgaa | caaagagaat | gcaggTTTTt | | 6600 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|------|
| aaaaggtttc | tttagaaata | ttgtcggccc | ggcacggtgg | ctcctgcctg | taatcccacc | 6660 |
| attttgggag | gccggggcag | gtgaatcacc | tgaggtcagg | agttcaagac | aagcctgacc | 6720 |
| aacttgga | aaccccgctc | ctactaaaaa | tacaaaaaaa | aaaaaaaaaa | aatagcagga | 6780 |
| tgtggtggca | catgcctgta | atcccagcta | ctcggaggct | gaggcaggag | aatcgcttga | 6840 |
| acctgggaag | cagaggttgc | agtgaagcaa | gatcgcgcca | ctgcactcca | gcctgatgac | 6900 |
| agtgtgagat | gctgtctcca | aaaaaaaaaa | aaaaaaatta | aaaagaatgt | tttaattctt | 6960 |
| tagttccctg | tctgagattc | actgattggg | aagaagaaag | ttaaagaatc | tcctttgact | 7020 |
| ttttttgata | tagatattta | aattctatta | ctttatagta | aggttggggg | ttattttctt | 7080 |
| tgctttataa | tagaagagca | ttgattattc | tctttgcttt | ataatagaat | accatttaaa | 7140 |
| taggagttcc | ctgagtgtgt | ttacaatcat | ttgatctggc | taaactattt | taatgttaat | 7200 |
| gaaattttta | aattttggag | gaaaaaat | aaaaactaca | cagggtgcaca | aagaaataaa | 7260 |
| aatcacctgc | tttttacta | tgtagagacc | attgtctact | atttctcaat | tctgtgttac | 7320 |
| atctgtatgt | taataactgt | aggattaggg | actgagtact | gtttttaacc | tgcttttaaa | 7380 |
| aaattttacat | ctacattttt | tcccatctaa | atagttagga | agagtatcag | aattttgtag | 7440 |
| gcttgtggtg | atgggttaaat | tagataatat | taatgttggg | tacttaacat | aatatatggc | 7500 |
| tcttaatact | ctccagattt | cagatatagt | ctgttttacc | attactgcct | ttttatcaaa | 7560 |
| cctatttctca | aaaaagtgag | aaaagtgctg | agattacagg | cgtgagccac | catgcccggc | 7620 |
| ctcatgggtc | tttcttaata | ataaattaga | agaagtagaa | ttacaggggc | aaaaagtatc | 7680 |
| cattttaaag | ctttcaatgt | aattgcctgt | ttatcttcta | gaaagtttga | cctagttgta | 7740 |
| ttttagagt | tcattttctt | gaactttatc | atcattaaag | ttttaaattt | ggaacactgg | 7800 |
| caatttgata | agtatattag | gattcttctt | attgcaagta | gcaaaataca | actcaatcta | 7860 |
| gtttaagagg | ggaaaatgta | gtcattggct | aacacaatct | aattttgggt | taagagacaa | 7920 |
| atctagagtc | tcaaatgata | tcagagtgtg | ataatccctg | acttttgtct | tgatattact | 7980 |
| tggcttgtat | acctttgctc | tatttgcata | ctggccttac | tctgccactg | acaggctgtc | 8040 |
| tgtatgggtg | ggaagaggac | ggctagcatc | cccatacctg | catccataca | gtttgtaata | 8100 |
| taaaaaaaaa | aaaagtaaaa | aaaactccct | ctctcttcta | gtgtctatat | atcagtttcc | 8160 |
| tagaagaaaa | cgttttgccc | tacttgacca | tgtgaatgga | gttccctgat | tacatgagtc | 8220 |
| aaatatgtct | tattgtagca | tatttgatgg | tcttcttgta | gaatattatc | ttactataca | 8280 |
| cagaactctt | gaccagtaat | taatgggcca | tgagtttttg | ttgcaagtca | tttgaattca | 8340 |
| tattctatag | ttttctacca | agtgtagtca | ttctgcaagc | tgttcttgtc | atgacttttg | 8400 |
| ggaagttgag | tatttcttct | atgggttagg | gttttcatct | caagaaaaag | atgatccttt | 8460 |
| tctctactaa | atatgtgtta | agatcacaca | tttttctaga | tcgttttagct | ctactgtgtg | 8520 |
| atcttacaca | aattgcttta | ttgggatgat | aagaataatt | gccttatagg | attgttatga | 8580 |
| gaatgaaatg | atacatcaac | tcatatgaaa | cactcagaac | agctcttggc | acaaagtaag | 8640 |
| ggcttaatta | agtagaaact | atccatatat | tcataatatt | atagtattgg | ttaggttgtt | 8700 |

sequece listing.TXT

| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-------|
| ttcaacattg | tttagaatcg | ctcaagcctt | ctttgtgata | atctgacgaa | ggctattcac | 8760 |
| caccagttag | taaataatag | tggcagaata | gttactgatg | cttttccttt | acttggtttt | 8820 |
| ttttccataa | acatctggcc | tttgcagact | aaatactggt | ttatgtatag | acatgttatt | 8880 |
| ctaaaataat | tttccatagt | ggtaatacta | aaggaagaaa | aatgttctca | aagctattta | 8940 |
| tttgggatgt | taaaggaggg | ggaaattaag | aaagcctaca | tttccatgtc | ctttgtgtcc | 9000 |
| agaatctcat | taaatgtctt | ttaacttggt | agcagaggaa | agttggatat | tgctgcctt | 9060 |
| tgtagctaac | atagttaaaa | tatttaaatg | gttatagtgt | caaaccagta | gtcaaagcct | 9120 |
| tcactgtgaa | tggatgaagg | gatattttct | tgaataattt | aagttgactt | atttcagtgg | 9180 |
| ttcaaaaaat | ttcttcaacg | cttaaccatg | actcaggcac | ctaactatta | tactatgtcc | 9240 |
| tgtaacagat | tgttgtgcat | tcattttattc | aacaggtatt | tgtgcagcta | atttattgag | 9300 |
| tacagcattg | aatcgttgat | ggcttaggcc | acagttgaac | attccatttt | ttatgttcat | 9360 |
| tcattcattc | atagcatatt | ccatttttaa | attttcagtt | cattgcactt | taaagtttga | 9420 |
| ggttcttgcg | aagtacagac | ttttgggttt | aagttttggt | atttaatgtc | aaccaccaca | 9480 |
| ggcgcattgg | ccagtctgct | tttagaattt | tcagacatac | atacacaaaa | cattctcaca | 9540 |
| agacaatcta | cttattttct | tttttattcc | tgtgtttctt | aacacaggat | taatgttcag | 9600 |
| atctcttttg | gagcaaaata | atcctctgaa | tttttgagat | gtacccagtg | acctcagtct | 9660 |
| gagtatgtat | actgcattaa | aaaatgtaac | cttgttcctt | ttagtggtca | tttggttaaca | 9720 |
| gtttgatcat | aaacaaatgc | agcctcaaac | acagaaggct | tgaggcaagt | atacagaact | 9780 |
| atggagagat | catttagatg | atgtagaata | tgctttttct | ttttttacaa | tgccaccaaa | 9840 |
| atgaaaacac | ggtttttaaa | attctcatag | agtgtaaactt | caacactgct | ttaactctat | 9900 |
| taaacaaagc | actgccatgt | tgtaattcct | atttattact | ctctggagtt | gtataaatta | 9960 |
| ccaaatccgc | cttttgtttg | atatcctttt | caaatatctg | agggtagcta | tcatgtttct | 10020 |
| tccttctatt | cttaaaaaat | agtcccaa | ttcttgaatc | ttttaattta | aaaattatat | 10080 |
| attgagcatc | tgatttgtgg | aaaggcatag | gccatattaa | aaatggggct | tcataattaaa | 10140 |
| atggggaaaa | gggtggagat | tctcaggtgg | aatctgagat | ctgccacaca | ctaatagtgt | 10200 |
| tacctaacc | tttttaaaga | caaagaaaca | ggatcagaag | gtcactttgg | aaaatttatt | 10260 |
| tggtaatatt | ggataggatg | gattagtata | gttggaac | agagactctt | gctttaggag | 10320 |
| agctgctcct | ttgtcatttc | cagaatctta | atcatggtca | aggttttagag | ctaaatattt | 10380 |
| aatagaagaa | gtctttaggg | tatgctttct | attgtacacc | cttatttcaa | tacatgtggt | 10440 |
| ttttcctgtt | atgtaagtac | tttattatta | tttatgcatc | ttctattaaa | gttaagcaaa | 10500 |
| taattatttc | aaggacacat | tcttctacat | acacacaaag | tttaggggtca | ctgaccttct | 10560 |
| taggttctag | tcttagatct | gttaccatct | aagagcatat | aaataaggga | aacagaaaga | 10620 |
| aaaggattta | caagctgaga | aggaagcaat | gcagagaaag | aagagtgata | gagtaggtaa | 10680 |
| tttggggaaa | gtcagtgata | cacagctctt | aaccatgaac | agtgattctt | cactcttgaa | 10740 |

sequenece listing.TXT

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-------|
| tgtttgtgac | attcatgaag | gtattaaaag | ctgactttta | aaaaattggt | tcagagaact | 10800 |
| ggaaaaaaat | tcagttgccca | cattcttcct | taggtcatct | ttgaactcta | ctcatgcact | 10860 |
| tacgtgttta | aggcaaagtt | ttactaaacg | cacacttggt | cttgctggct | tattgacttt | 10920 |
| tactgctagc | ttcttattct | tagcaattat | acctcacatt | acatagtatt | gtgaaactca | 10980 |
| ctatattcag | tgttttgcct | gacaaacatg | gtatgttata | ggatgtgtat | tcagttatag | 11040 |
| ctaaaaataa | attattctcg | tttttcaaaa | tttgctggcc | tacctgttaa | gcttttgctt | 11100 |
| taagacctgc | taatgtttct | caaacttctg | tggttaaadc | acctgagtgt | ctagttgctc | 11160 |
| tatggattcc | cagggaccca | ttcgccagag | attctgattt | ggtaattttg | ggatggaact | 11220 |
| cagggatctg | taaattttac | aagcactcag | aatgaaaca | tagactttta | acagctaaga | 11280 |
| gtgctcatca | ggattatggt | gatattattt | tttaaacaga | tgtgccaagc | ctttaatttg | 11340 |
| aatttccagg | gttgggattt | ggccttctat | atttggggga | aaaaagttct | attgatgatt | 11400 |
| gtggatatat | accacaggtc | aaccattgaa | tagtctagtc | agtgtagtta | gtgtatttta | 11460 |
| taattactaa | gttctaagta | tgtggtgtat | taatgtctta | ggaggtggat | atatttcctg | 11520 |
| tatttgtaaa | gcatttggtt | aggtttttta | aagagaaaag | tatgtaacaa | actagttttg | 11580 |
| agcgttgctc | ttttacttct | ttgggcattt | ttgaagaaca | cgtaagtat | cttcttagag | 11640 |
| cagaggggct | cagagtggct | cccagattat | catcattggt | aacacctagt | tggtgcatta | 11700 |
| ctaacttggt | agaaatgcac | attctcaggc | gccattcaga | cttcataaat | cagaaactct | 11760 |
| ggaagtaagg | ctcagcattc | tgtgtttttt | ttttctttat | tatactttta | gttttagggg | 11820 |
| acatgtgcac | aacgtgcagg | ttagttacat | atgtatacat | gtgccatggt | ggtgtgtctg | 11880 |
| accagtaac | tcgtcattta | acattaggta | tatctcctaa | tgctatccct | ccccgctccc | 11940 |
| cccacccac | aacaggcccc | ggcgtgtgat | gttccccctc | ctgtgtccat | gtgttctcat | 12000 |
| tgttcagttc | ctacctatga | gtgagaacac | gcgggtgttg | gttttttgct | cttgcgatag | 12060 |
| tttgctgaga | atgatggttt | ccggcttcat | ccatgtccct | acaaaggaca | tgaactcatc | 12120 |
| cttttttatg | gctgaatagt | attccatggt | gtatatgtgc | cacattttct | taatccagtc | 12180 |
| tatcattatt | ggacatttgg | gttggttcca | agtctttgct | attgtgaata | gtgccacaat | 12240 |
| aaacatacgt | gtgcatgtgt | ctttatagca | gcatgattta | taatcctttg | ggtatatacc | 12300 |
| cagtaatggg | atggctgggt | caaatggtat | ttctagtctt | agatccctga | ggaatcgcca | 12360 |
| cactgacttc | cacaatgggt | gaactagttt | acagtccac | taacagtgtg | aaagtgttcc | 12420 |
| tgtttctcca | catcctctcc | agcacctgtt | gtttcctgac | tttttaatga | tcgccattct | 12480 |
| aactgggtgtg | agatgggtat | tcattgtggt | tttgatttgc | atttctctga | tggccagtga | 12540 |
| tgatgagcat | tttttcatgt | gtcttttggc | agcataaatg | tcgtcttttg | agaagtgtct | 12600 |
| gttcatatcg | tttgccact | ttttgatggg | gttggttttt | tcttgtaaata | ttgtttgagt | 12660 |
| tcattgtaga | ttctggatac | tagccctttg | tcagatgagt | agattgcaaa | aattttctcc | 12720 |
| cattctgtag | gttgccgtgt | cactctgatg | gtagtttctt | ttgctgtgca | gaagctcttt | 12780 |
| agtttaatta | gatcctattt | gtcaattttg | gcttctgttg | ccatggcttt | tggtgtttta | 12840 |

sequece listing.TXT

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| aacatgaagt | ccttgcccat | gcctatgtcc | tgaatggat | tgcctagggt | ttattctacg | 12900 |
| gtttttatgg | ttttagggtct | aacattttaag | tctttaatcc | atcttgaatt | aatttttagca | 12960 |
| taagggtgtaa | ggaagggatc | cagtttcagc | tttctgcata | tggctagcca | gttttcccag | 13020 |
| caccatttat | taaatagga | atcctttccc | catttcttgt | ttttgtcagg | tttgtcaaag | 13080 |
| atcagatggg | tgtagataag | cggcattatt | tctgagggct | ctgttctgtt | ccattgggtct | 13140 |
| atatctctgt | tttggtagca | gtacatgct | gttttggtta | ctgcatcctt | gtagtatagt | 13200 |
| ttgaagtcag | gtagtgtgat | gcctccagct | ttgttctttt | ggcttaggat | tgacttggca | 13260 |
| agcattctgt | gttttgagaa | ttcttcagg | ggactgtgat | gaaaactgac | gtttgagaac | 13320 |
| cttcatctta | gagtaaaaac | tttacataca | catttttggt | gttttattta | tctagcacia | 13380 |
| tacttctttt | ttttgaaatg | gagttttgct | ctgtttgccc | aggctggagt | gcaatggtgt | 13440 |
| aatctcagct | caccacaacc | tccatctccc | aggttcaggt | gattctcctg | cctcagcctc | 13500 |
| ccgagtagct | ggggttacag | gcacgtggca | acatgcctag | ctaattttgt | attttttagta | 13560 |
| gagacggggg | ttctccatgt | tggtcaggct | ggtctcgaac | tcccgacctc | aggatgatccg | 13620 |
| cccacctcag | cctcccaaag | tgctgggatt | acaggcgtga | gccactgcac | ctggcacaaat | 13680 |
| accttatata | taatcagggc | tcaaagattt | gttgagaggc | tcaacaccaa | ttctggacca | 13740 |
| ggaaagattt | tatttatatc | actagtcagg | aataatctaa | aaacaaaaag | cacattcttc | 13800 |
| ttacaagtaa | tatttcaata | cacattaatg | taaacacatg | gaaaagtatt | agctacttaa | 13860 |
| taaattaaca | tgtaaatgaa | aaatttacac | attatggcta | tttcagatgt | gatataagatt | 13920 |
| tcattttcag | aaggaaccct | ccaatgtaaa | acagtgatct | ttttccccgt | ttattttact | 13980 |
| gcattagaaa | atcacattta | aagtaagcat | tttggtaggg | tttggaagggt | gaataaatcc | 14040 |
| atcttttctt | taattatgga | tatttaagag | agatgttggt | gtgccgttta | gataataatg | 14100 |
| atctaaacca | agaaatttag | ttgctttcaa | aaataaaaata | agtgtatgca | ttctgaacat | 14160 |
| ttttctttag | aaacaaacca | tttcatctgt | ttttttgaat | ttcaaattaa | ttatacagaa | 14220 |
| ttttcaaaat | ttgaaaatta | ggtagcatg | agaaactgaa | gatactgaat | tatattgcct | 14280 |
| gttcagtcta | tacttttctt | taggatatac | agtaggaaag | aaatatgata | gttcaagtta | 14340 |
| gattactact | tctttcagag | ttttttgaca | aatgcaggta | cagtgatagt | gtcagttcat | 14400 |
| gggtgaatttt | tgtaaaaata | aattacaaaa | aatttgtgat | cctgggtatct | tgaaactagt | 14460 |
| taatatttgt | aaactttgct | aacactgtat | atcactgtat | tctgggtttta | tctgtgcatc | 14520 |
| tatgagttat | atgtgtgtat | agctacatat | gtttatatatt | atacacatac | attacacaca | 14580 |
| ggagtggaa | catactcaat | tttttttgta | tagcctgctc | tgttcatata | atactatatt | 14640 |
| gtagcatcta | gtataagcaa | agattaattt | ttgtagactt | tgctttttatc | ctgaaatttt | 14700 |
| gtggtagctg | gtttaatgga | aagacaattt | ctgtgacgtg | ttttgtcagt | tagggattga | 14760 |
| ccctggtaaa | atattgctgg | ataacaacaa | gcaatgtaaa | aatacatttg | ttcataaga | 14820 |
| taacctccgt | gaaggtagag | acttgggtctg | ttttgtttat | tgaccgtgtg | cctgttctgg | 14880 |

sequenece listing.TXT

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| tctctaacat | gtgggtatcc | taaaggttta | tttttaaagt | ttattgatta | gaattcagaa | 15000 |
| gatattttcc | cagataaaat | aatagattgc | tagctgtcct | gaaaatgtaa | tttatattta | 15060 |
| atttgaaatg | tcagggtttt | gctatttttt | ccattaagta | gagatagggt | ttttaaaaa | 15120 |
| tacatgtgat | gttttaagta | ttctggtttt | gcaacaatta | ctagatagaa | aatgtaacaa | 15180 |
| cagatcctat | taataatact | tccaataata | catataaaat | acttgtctaa | aagtaaccct | 15240 |
| ccttaaaaaa | acaaagctgg | ccaggcgcg | tggtcacgc | ctgtaatccc | agcactttgg | 15300 |
| gaggctgagg | caggcggtat | aagaggtcag | gagttcaaga | ccagcctggc | caacatagtg | 15360 |
| aaaccccatc | tctagtaaaa | atacaaaaaa | ttagccgggt | gtggtggcag | gcgcctgtaa | 15420 |
| ccccagctac | tcaggaaaat | cgcttgaacc | tgaggagcgg | aggttgcagt | gagcggagat | 15480 |
| cgcaccactg | tacttcagcc | ttgggcaaca | gtgcgagact | ctgtctcaaa | aaaaaaaaaa | 15540 |
| aaaaaaggca | ataggattag | gtatcaactt | aatgaaaact | tcgtgacagc | actttcttga | 15600 |
| aaaagactgt | ggaaaccaa | gtagtaaac | tcctgtttct | gcctgggttc | ggaaaacata | 15660 |
| aagatgataa | agatgtttta | gtattccttt | tttttttttt | tttttttttt | gagacagtgt | 15720 |
| cttgctctgt | ctggagtgc | gtggcacaat | cacagctcac | tgcagccttg | aactcctggg | 15780 |
| ctcaaataat | cctcctgcct | cagcctcctg | agtatctgga | actacaggag | tgcaccatta | 15840 |
| cactcggcta | gtaatttgat | tggttaagaa | cattaactat | aactcacaca | ttttcctgac | 15900 |
| cacatttgct | taggacaaaa | cagtaaaaga | catgagtgt | gatgaaagcg | ataagggaac | 15960 |
| taatcttaaa | cactgaacct | cttttcagca | aattggcttt | ctagtttctc | agctctctct | 16020 |
| ttacacctct | aaatctcttt | cctggcaaga | tcatttat | gccttggttt | atggtgatac | 16080 |
| tcttcattgt | tatactgggt | ggtgattgtt | ttaattgata | gctgtttttt | tctacttcag | 16140 |
| gaagatgaca | ctgctggctc | tgctggctct | gatgtttacc | ttgtggctaa | tgcctgtgtt | 16200 |
| tgcctgtgtt | cacatttatt | ccacgattca | ttgtttaaca | tttactaagc | tgcttttctg | 16260 |
| tgccaggaac | ttggctagat | aaataaatgg | ttgtttttgt | acacagaatt | agctgtcata | 16320 |
| atcagttact | gtagcattta | ttcttgcaaa | aatatatatt | tatacttcaa | ctagtgatcg | 16380 |
| aatctcaact | tattaattca | tacattcagc | cagcacataa | ttgaataact | cttatgtgtc | 16440 |
| agaaactgtt | ctaggtgctt | gggatgttca | ttgaacaaaa | tagacaaaag | tctccgcctc | 16500 |
| tatggaactt | actttccagt | gaagggtgtg | attggtggga | tagaaaataa | aataatcaag | 16560 |
| taagatatgt | acttaggctt | tcataaaaa | acagcagggc | aagaggacca | agatggaggc | 16620 |
| agtgatcagg | gaatctcaat | gaggggtgag | ctgcgacaaa | gacttgaaaa | aggtggagaa | 16680 |
| gcaagccttg | tggttat | gggtagcagt | agtccaggca | aggggaacaa | ctagtgcaaa | 16740 |
| ggctctagga | ggcaatgtgt | ttgaagtgtt | ttaagaacag | taaggaggct | agtatggtta | 16800 |
| gaacagaatg | agcaaagggg | gcaaagtgg | agaagggtgag | atcaaagagg | taatgaggcc | 16860 |
| attgtggagg | cccatatgga | ctattggaag | ggctttggct | tttactctaa | atgaggcaaa | 16920 |
| aaccatttta | agcagagagg | agtgatatga | cttgatttct | tgttaaaagg | attattctag | 16980 |

sequece listing.TXT

| | | | | | | |
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| ttgctgttac | agaaaaagat | tacaggggtg | caaagaaaca | gggagacaaa | agaatataag | 17040 |
| attttcactg | taacttatat | ctagtatgct | tgcttatact | tgaaaatgca | tatccagata | 17100 |
| attgtagtaa | attcaaatat | tatgtttatt | taatagtact | aacattgata | tgctgggttaa | 17160 |
| ttatgattag | gagcactaat | aaagcacaaa | tcagggattc | ccaaaaagaa | tgttgaaagg | 17220 |
| gcagtcagct | tttcctgtgc | cagaaatcaa | agtcatagca | gatttggggc | aaatatgtca | 17280 |
| aagtcaaact | tacgcacatc | actactgaga | agacaaagat | gaatgtgtga | cagtttcctg | 17340 |
| cccccaagaa | tctttaagca | ttgtgaagga | agattaatat | agccaaataa | ctagagtgat | 17400 |
| cagttctacc | agagaggacc | agttttggaa | gccagaggaa | aaaaaaaaaa | aacagaaaca | 17460 |
| aaatgatgtt | tgaattaaat | ctttaaaagt | ttctcttata | aattttacca | gccacatatt | 17520 |
| gggaatggta | ccccaggcag | aaggagtaga | gtaagcaagc | cagaaaggaa | atactatggt | 17580 |
| gcttttgagt | aactgcagtg | tggctgaaga | atgtggaaaa | tgatgaggat | aaagaggtgg | 17640 |
| acagggaact | aggttaaggga | gggcttcctt | ttaaataatt | agaccttgtc | ctgtgtacat | 17700 |
| ttaatgggat | tttaatcagg | ccataatgcc | aaatttcttt | acttcggaag | gatctttatg | 17760 |
| gtgatggttt | cagaaagaaa | ttaaagcaga | gtaacagtgg | ttagcaataa | tgatcagcta | 17820 |
| gtggttccca | aacttacgta | tcatatgcat | cttggaaagt | tttaaaaact | cagatttttg | 17880 |
| gatcctgact | tagatctact | gaatcagaat | ttacagattc | aaattcccag | tgaggcctag | 17940 |
| gaatttgaaa | tgttgaatgt | ccttcacgat | gcagctagac | aagcatttgg | gaataaagca | 18000 |
| ttaggtgact | atttcagtag | actaaggagt | gggaggccat | ttaagctcaa | aggctattct | 18060 |
| acttctcact | atatttctag | tacctagcac | agtgcattgg | acttgataga | tgcatccttt | 18120 |
| ctcccatacc | tcgccctaca | catctcttca | tgtgtatcct | tattaatatc | ctctattata | 18180 |
| aactggtaaa | catgtttccc | tgagtctctg | gagctgctcc | agcaaagatg | ggtttgtgag | 18240 |
| aatcccaact | tttgaagcct | gtcagtcaga | agttcctgag | gccagacttg | caactcctgt | 18300 |
| tgagggggca | gtcttgggga | ctgagccctc | aacctgacac | tgtctccagg | tagatagtgt | 18360 |
| tagaattgaa | ttgaaggaca | cccagttggg | gtccgctgca | gaactgattg | ctcacctggt | 18420 |
| ggtggagaga | accctcctc | tcccgatagg | gttgcagaag | ttgtcttctg | tgttgttgat | 18480 |
| tgctgtggtg | tgggagcaga | ggggggaaaa | aagctgttgg | agagtttttt | ccaaaacaat | 18540 |
| aggagattat | ttagatttat | aaaaatagaa | tcaaagtaga | ttaactgagc | acattgtgaa | 18600 |
| atatagagta | gagctgtgtg | taaggagtat | atcttaatgt | caagctgaca | ccaaattgaa | 18660 |
| tgtttgctgg | aacgttcaaa | aatctaagct | tcccaaactc | gtgaaaacac | tcaggttagt | 18720 |
| aaacagtctt | atgcaaacag | caagacaatg | ctcaaagcca | tttaaggaaa | aagaacagta | 18780 |
| actgaattct | cttatggaaa | tgtgagatgt | tgtttttagta | agtactgatg | gtgtttatact | 18840 |
| ttttgtttat | tcgtttgctg | gtatttcagt | tcctaaaatt | ccttcaaata | tgctgcaaaa | 18900 |
| tacaaaccaa | gaacttggtg | gattttccat | ttgttttcct | gtgggaaatg | atggaattaa | 18960 |
| aaaccttgag | gattagacct | tgagagttac | cttccagtgt | ttatgccacc | attatacaaa | 19020 |

sequenece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-------|
| attctggagg | acaaaaccct | tcccacttaa | aaaccagtta | gtttcagaaa | atcacctcat | 19080 |
| gtaggagac | tgcatcatta | tagtatgtgt | gtagcttta | ggtatagatc | taaaatattt | 19140 |
| ttaatatttt | aaaaacttaa | gcctttcttc | attaatttgg | cctaatacaa | gttagaataa | 19200 |
| ctttaaaaaat | gagtacaaac | aacaaggaag | ggccaggcgc | agtggctcaa | cgcttgaat | 19260 |
| ccgaacactt | tgaggaggcca | aggtgggcag | atcacctgag | gtcaggagtt | ccagaccagc | 19320 |
| ctggccaaca | taatgaaacc | ccatctctac | taagaataca | aaaattagct | gggcgtggtg | 19380 |
| gcacacgcct | gtaatcccag | ctactcggga | ggctgaggca | ggagaattgc | ttgaaccag | 19440 |
| gaggcagagg | ttgcagttag | ccgagatcgc | gccattgcac | tccagtctgg | gcaacaaggg | 19500 |
| tgaaatgccg | tctcagga | aaaaaaaaaca | gtttctgtga | ctgctagaca | aatgttgagc | 19560 |
| aagtaaaaca | ccaacaatgt | tgaacttaga | tattgaaata | gctgctctgt | acaaataaag | 19620 |
| tctactggga | gtatagactg | aattaccatc | ttttgactct | ttcgccataa | tgattggcat | 19680 |
| taccggaagg | gattaccttg | ctttgaagag | ctgctggaca | gtagagcaga | gagcatctat | 19740 |
| taccattgta | ggtgcctttc | agttaggatt | ttggatttat | aagcaaactc | caagaaagag | 19800 |
| cctggttctg | agtttctctg | aatagcttag | gtcaagtcct | aaattctgaa | gccaaactcct | 19860 |
| ataattcctt | ctttatgtct | ttggcatgtg | aagtaggcaa | atttcgaact | ttataataat | 19920 |
| agcctagact | tacaaatact | tgccctggta | atcaggatga | gtttttgaga | gacaacatag | 19980 |
| tctagtgtta | atcgcggtga | caccagactg | cttgagtga | atacaggttc | taccatttat | 20040 |
| taacggagta | atgttgggta | agctatttag | ccagggtcct | tatctgtaac | atggtgataa | 20100 |
| taataaagat | taaataatag | gtgaaaaatg | tttagaatac | cactgtgtta | ttagtaagca | 20160 |
| ccatgcatag | gtgtttggat | ttaaaaatac | tggaagggc | cagggtgggt | ggctcacacc | 20220 |
| tataatcctc | gcactttggg | aggccaaggc | agaaggatcg | ctttagccca | ggagttcagg | 20280 |
| accagtcgag | gcaacataga | ttccgtctct | gcaaaaaatt | taacagaatt | agttgggcat | 20340 |
| ggtagcgtgt | gcctgtagct | acttgggagg | ctgaggtagg | gagggggagg | attgcttgag | 20400 |
| cccacgattt | cgaggctgca | gtgagcttat | gatcatgcca | ctgtactcca | gcttgggtga | 20460 |
| cagagcaaga | ctctgtctct | aaaataaaat | gaaaataaaa | ctgcaggcaa | aaatgccaac | 20520 |
| tgaagagtga | acatgaactt | ttctttgcat | ttttcttggg | cctgagactt | taagaagtgc | 20580 |
| agggcagtta | aatgatgag | atataattct | cacctatcag | ctcagcagaa | attaataaga | 20640 |
| ttaaaaagat | gcgtaatata | taatattgca | gagtgcattg | gggaattgat | atacacattc | 20700 |
| atgaactggc | agagacaaaa | atgggcacag | aaccatttgg | aaagctattg | tgtattttta | 20760 |
| aaaatttcag | tagcacattt | tttatatcat | gaaatttcac | ttcagaatgt | cagtcctgta | 20820 |
| gaaatactga | cgcaagtgca | aaaacaacaa | aaaccaactt | gtaccttcaa | ggccagaaag | 20880 |
| agttatttca | caaataaca | taattgaggt | acattaactt | tattagaagt | aaatctgata | 20940 |
| atctgctcac | attttaaata | gttatggttt | aacttcagtt | cttgaagtca | catattttta | 21000 |
| caattaggaa | tgctaacagg | ctttttgtgc | aatacgaaaa | gatgacttta | aatgcctaca | 21060 |
| attattttgt | gtccttttat | ttttttttaa | tttttactga | cctactacaa | agcactaaat | 21120 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| attttatggt | cttaatctga | agaacaatag | acattctcta | taaaacaact | cttgcttatt | 21180 |
| catgaacttt | gtacacaaga | agcttaataa | gacgggctca | aaattatfff | tctaaatata | 21240 |
| tttcctatac | aaaataatff | caagatataa | ttgttactff | tgtgtctaaf | actgtatggt | 21300 |
| aaataataaa | atggtaagca | tgtaaaaact | acaataccac | aaagattgag | ctatfffgcc | 21360 |
| agtagtatac | tccaactffta | gttctagaac | agttgtagaa | atgggtaaac | aaactgtfff | 21420 |
| aactgtactc | ttaactgaaa | tatagtacct | tatgcagtag | cagaacatat | cagcagaaga | 21480 |
| acttcacttg | acctgtactt | aaaaacaaaa | cagatgcaat | ttataaaatt | tagagaaata | 21540 |
| tagtgacctt | atttgcattg | ggaaaatgta | cttctffctg | atctacatat | cttctgttgt | 21600 |
| gcaatgtaag | cagtaaaaca | aatagtacag | gattcatctc | tgtgggacct | agacccctg | 21660 |
| gtctaacaaa | taattcttgg | tcagtactgt | aattctgtgg | tataaaactg | ataaaattag | 21720 |
| ccttcctgtg | actagacaag | aagccgggca | gtttaaatgc | tgaaactcac | aagaacttca | 21780 |
| gaagctttag | ctttaagctt | taagcttact | tagaaatggt | ataagacctc | cagtagtcac | 21840 |
| atatgaagaa | tatcatgaag | atffttccat | taaatctffta | ttatagatcc | cttgattgggt | 21900 |
| ttctgtctag | actcattgtg | tgataaagga | cataataatt | tttatcacct | tcattctaata | 21960 |
| taggtttgtc | aactctatat | tagttgtfff | cttgaaggct | ggttffcttc | caaaattcag | 22020 |
| tcttattfftc | agtctacact | agctfftaaa | tatactgtcc | tttagatgct | ttattctaacc | 22080 |
| tcaaattffct | aatggatttg | tcttagacac | ttattgccac | tccttagata | gtcattgcta | 22140 |
| tctttgaagt | tctggacgat | acgtgtatta | cagaggaact | ggagacattc | catcaccata | 22200 |
| gttagcttga | ttggataccc | tttaaaagca | tatactcgcg | cctgtaatcc | cagcactffg | 22260 |
| ggaggccgag | gcgggtggat | cacttgaggt | ctggagtttg | agacaagcct | ggccaacatg | 22320 |
| gtgaaacctg | tctgtactaa | aaatacaaaa | attagcctgg | catggtacca | catgcctgta | 22380 |
| atcccagcta | ctcaggaggc | tgaggcagga | gaattgcttg | aacctgggaa | gtggagggtg | 22440 |
| cagtgaacca | agatcttgcc | attgcactcc | agcctgggtg | acaagagcag | aactccatta | 22500 |
| aaaaaaaaaa | aaagcatata | tagcacatat | tataaggfff | tcaattffttt | caccaagtgt | 22560 |
| ttcatttggg | tagtcattta | ttggtagfff | acatcagttg | agtggttcag | aaaaaataca | 22620 |
| gtaagttgct | tataaaattc | tgaacactff | ggccaggcac | aatggctcaa | gcctgtaatt | 22680 |
| tgagccctff | gtgaggctga | ggcaggagaa | ttgcttgagc | ttaggcgffc | aagaccagcc | 22740 |
| taggtaacaa | agaacgcctg | gaatgattgt | ggcatttgaa | ctaattattca | ggtttaacaa | 22800 |
| gagataattg | accatcactc | tatffftagag | gctffatffg | aaccagatag | aaatctatff | 22860 |
| cccacagcta | tcactgcctg | tcacctacaa | cttaaggggg | ttggggagga | agtgagagat | 22920 |
| tttctgttag | ggccaatagg | gacctgctag | ataccccccc | atcctgggaa | tgggtgatgg | 22980 |
| aactccagtg | tatgctggag | ttattatcat | catacttgtt | ttffttatff | actcttctgc | 23040 |
| ttatacagat | caagtcttac | gtffttatff | taagtttaaa | ttgaaaacat | ttacagagaa | 23100 |
| caatgcagtg | aaatgaaaaa | attacagact | gctggcattt | gcattffcat | gtagcctcag | 23160 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| tgactaattt | ttttttattg | tacagcattg | agaaaatcct | agttcatata | actagttata | 23220 |
| gttcatatag | attcatataa | ctagttttta | gtgataatag | tttcttcctt | tttttcctcc | 23280 |
| accatctaac | cagatgaaga | taatagtttt | taatagctca | ccgtaaattt | caaggctactc | 23340 |
| aagttaaatt | gatctagatg | cttgagttga | aattttttcta | tcaaagttca | ataacatgct | 23400 |
| tacatttcctt | attaaagtat | aaaagtccta | taaacacaca | aacttgagta | agtactaaaa | 23460 |
| ctagtatcag | tattgtcaca | atacaacatg | ttatatgtga | acaagagcat | ttgctgagaa | 23520 |
| ctgtgcttgt | tactccagaa | tgttgcttct | atgggtgtac | ctttcaactt | tgcagatcat | 23580 |
| ttggaaggag | gagagatttg | gggtggagac | aattcggtag | ttcattcaca | ggatgtaagg | 23640 |
| aggattaagt | aaaataatgc | tggctaaaag | tccttatttta | gcatactgcc | caatgctcac | 23700 |
| taaatcataa | tagctgtttt | taacatttgg | tgaagaatct | atttaacagg | agtgagttga | 23760 |
| ggggcatagg | agatcatgtg | agtgttttaa | gtagaagcag | cattcccat | taagaagaga | 23820 |
| aatactgtgg | aagagcaaag | actttaaaac | acctgggttc | aaatcctatt | tgctacataa | 23880 |
| tggctacttt | taacctattg | aacgccagtt | ccctcatttg | taaaataggg | acaatatttta | 23940 |
| acctattttac | aggttgtgag | agaactaggc | acctagtaca | gggtaatggt | ggcacatggt | 24000 |
| aacctttaat | aaactgttgc | tattcaacaa | gctattagat | gtcactaggc | agttaagcaa | 24060 |
| aggaagacag | cttttgcttg | gtgtgacaat | gaaaatcttt | ctgatttcct | tcttggaaga | 24120 |
| gttcctgaa | gatatgtcat | tgtattgaca | cctttatttt | tgctaacctta | tcctctctaaa | 24180 |
| ttctggatat | tgtgtgtgcc | acagcttttt | ttcttccata | ttcctgcatt | tatttggcac | 24240 |
| ctgttgtgcc | agtaatagat | aaggggctgc | taagggagga | ggcaacctgc | actggcttat | 24300 |
| agctgctaatt | gtcagttcct | atagcttatc | gtcagtgtta | ttcatgtggt | aaaaggggtga | 24360 |
| gaaagtactg | gagtctaaag | aaacaagtag | aaatcagttt | gtagctatta | ccgttctacc | 24420 |
| tgctaacaac | tcctgttttc | aagttattat | gtacaacttt | aggtagtttc | tctagcctta | 24480 |
| atcgtggttt | ctctgtattg | agactacttt | tgaattctat | gaagtacagc | cttagatgta | 24540 |
| caggctactt | taaatttttg | cctaaaataa | aaacattctc | tccaattaca | tatgctgggg | 24600 |
| aggaaacacc | tgcttccgac | aggttttaaag | cttggttttg | gactttttgt | gagagttcct | 24660 |
| tatgtgtgca | gtaatccaaa | atttgtatag | ttgcccttta | taaaagtaca | ttaatctagt | 24720 |
| agacaaatct | ccatgtaact | taattacatg | gcatcttcta | atccttctgt | gataagcaga | 24780 |
| aatgtaaagt | tttattcaag | ttaaggcaaa | ctaacttgta | tacactttcc | atctcgtggt | 24840 |
| tttcttggtg | ttgttaagta | ggataagttc | tgaacgtcga | aaagaaaagt | ctcgagatgc | 24900 |
| agccagatct | cggcgaagta | aagaatctga | agttttttat | gagcttgctc | atcagttgcc | 24960 |
| acttccacat | aatgtgagtt | cgcacttga | taaggcctct | gtgatgaggc | ttaccatcag | 25020 |
| ctatttgcgt | gtgaggaaac | ttctggatgc | tggtgagtta | ttttacaagg | gtataaatag | 25080 |
| gcctgaaaat | tagaagttag | aagtaaatag | aaattatttt | tagaagggtg | tcgcaatggt | 25140 |
| ttgattttgt | atacctcttt | atattgtgat | atgtacacgt | ttaaaaattt | ttctgtaatt | 25200 |
| ctcactattt | ttatcaagct | tcattttttt | ctcatcagtt | attctttgaa | ataatcattc | 25260 |

sequece listing.TXT

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| ataacatcct | ttttattacc | tgcttttaaa | gcttttagtca | ggaataagat | actggcctttt | 25380 |
| cccctcccc | ctttttctcc | tgttccatct | acctttcttc | ctttaaaaaa | catgactcag | 25440 |
| gccgggcgcg | gtggctcacg | cctgtaatcc | cagaactttg | ggatgctgag | gcgggtggat | 25500 |
| catgaggtca | ggagttcaag | accagcctgg | ccaagatggt | gaaaccccat | atataccaaa | 25560 |
| aatataaaaa | attagatggg | cacgctggta | ggtgcctgta | atctcagcta | ctagggaggc | 25620 |
| tgaggcagga | gaattgctta | aactcagagg | gcggagcttg | cagtaagccg | agatcaagcc | 25680 |
| actgcactcc | agcctgggcg | gcagagttag | actccatctc | aaaaataata | aaataaataa | 25740 |
| ataaataaaa | aacattactc | ttctttcttc | ttctatgggt | tgctttgctg | cattacttta | 25800 |
| atcatgaaaa | gcagctggca | catctaatta | tagtttttct | agcttctggc | ctgcactttt | 25860 |
| ctgtgttgaa | atggctgtat | atattaaata | aagtgtctgc | gagaaaactt | tgtaaaaaca | 25920 |
| tctaaatatt | atatcattta | agtacaactt | tttaactaat | tattttcttc | ttcttgtgcc | 25980 |
| ctttttaggt | gatttgata | ttgaagatga | catgaaagca | cagatgaatt | gcttttattt | 26040 |
| gaaagccttg | gatggttttg | ttatggttct | cacagatgat | ggtgacatga | tttacatttc | 26100 |
| tgataatgtg | aacaaataca | tgggattaac | tcaggtaaaa | tgacacata | ttaagagctc | 26160 |
| ttctatatgt | ttttatgatt | ttatgatcta | gccctaattt | ttaaaaatgt | gtttacagtt | 26220 |
| tgaactaact | ggacacagtg | tgtttgattt | tactcatcca | tgtgaccatg | aggaaatgag | 26280 |
| agaaatgctt | acacacagaa | atggtaagaa | aagtctgttg | tttgatttaa | tgtgacaggt | 26340 |
| ggttttacat | aataagatac | tattgctaatt | tattaaactt | tgctattgta | cttaccacaag | 26400 |
| gcaaaatggt | atttcatggt | taataaaatg | tctattcttt | gttaaaacta | ttatttttagt | 26460 |
| ttttaggaat | ttcattttga | aagcccacct | aattgcataa | ataattgtgt | gggtgtgaga | 26520 |
| aataaaatgg | aaaagtaaaa | tcatgaccaa | gagagttaca | aataactttt | tttttttttt | 26580 |
| tttaagatgg | ggtctcgctc | ttttgcccac | gctggagtgc | agtggcacaa | tcagctgact | 26640 |
| gcagccttga | ccgctgggac | tcaagcgatc | ctcccacctc | agtctcccaa | gttagctggg | 26700 |
| accacagacg | cgtgctacca | tgcccagcta | aatttttaaa | aattattttgt | agagacaaaag | 26760 |
| tctcactatg | ctgctcaggc | tggctctgaa | ctactgggct | taagccatcc | tctcacctcg | 26820 |
| gcctctcaaa | gtgttgggat | tacaggcatg | agccaccacg | cccaggctac | cttttttttc | 26880 |
| cttttctttt | taaattgtga | taggggttct | tgctgtattg | cccaggctgg | tcttaaaactc | 26940 |
| ctggactcaa | gtgatcctcc | tggctcagcc | tcccaaagtg | ctaggattat | aggcatgcgc | 27000 |
| caccacacct | ggtggagtta | aaaattaaaa | tacaccatta | aggcaaggag | aaattataat | 27060 |
| acaaatggca | gataatagga | ctttagacag | tcattaaagt | tgaggtgcca | gtttgagtct | 27120 |
| aaggcccaat | aaaaaaagt | caccagaatt | ttaagacaaa | caactgctta | tttgacttct | 27180 |
| ttggatgttc | tcaataattc | gagaccgtgt | agttagatta | taaagtatta | cattgtggat | 27240 |
| gccacatat | taacaaaaat | agagagtaag | acctctaatt | cttaggaatt | aattgttaaa | 27300 |

sequece listing.TXT

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| ttctacattt | ttatcttggt | aaacagtgtg | tactgatcat | aattatttaa | aaaatcatgt | 27420 |
| gttctaagat | ttttggaaag | tacctcttga | attacaaaaa | caagaaagtc | tttccacatt | 27480 |
| tgtgccttct | taagcagtgt | atactgatca | taattgaact | tttcttcatg | atggaaagtt | 27540 |
| accacaagga | aaattttctt | tgttctgctg | ttctttgttg | ctctccaatt | taagtgcata | 27600 |
| cgtttgtttg | cttctatatt | ataaaacctc | aaattttactt | tttgataaat | ttttgaggtt | 27660 |
| ttctttttca | tctcatttat | tataataata | gctaacctcc | attgagagaa | tgctgtgtgc | 27720 |
| caggacactg | ttcttcctat | tttatatgct | tttaactcct | ttattcctca | caacaacctt | 27780 |
| gtgaagttaa | ctgttagaca | atttctattt | tactaggaaa | ctgaggtaca | gagttactaa | 27840 |
| gtaactttcc | caacattatt | tggttagtaa | atggcagagc | ttgggctgaa | cttcagtaga | 27900 |
| ctggccttcag | agtccacgct | cattagtcct | ttggagcgct | tttcatattc | ttgaattctc | 27960 |
| acattctgtc | ttttttcact | ctgtcagcag | gacctgactc | ctgtttttta | atttcatatt | 28020 |
| gtgtttttac | tgtaatttg | gaaaacaaat | gcatactttt | tagaattctg | tataaaggag | 28080 |
| gagtaaatat | gctgtgaaca | aggacctaa | tggttggtca | atgagtttaa | tatatgagtt | 28140 |
| ctaagtgtca | gagttgaggt | ttatattgac | tgctcagtgc | ttccctgggg | ctagactata | 28200 |
| aatggatgga | tattaggaag | tcttgttctg | atttggtaat | gatgttaatg | cattattcta | 28260 |
| aatcagatag | tcttaatata | gtttaaatgt | atgtttcgaa | ccaaatgttc | ttttttaaag | 28320 |
| cacacaaaca | ttttgaaatc | attactaatg | tggttaatga | attattgatg | ttccattggg | 28380 |
| aaactaaaat | gcagattttt | ctctttttag | aatcagggac | tattgcaaag | catcacattt | 28440 |
| tagtgataca | ctgagagcca | gtggtgtgtt | tatacaaata | gtcctatttt | ccaaataaat | 28500 |
| tctagaaaaa | tgctttagaa | tttataaatt | atacaaaata | tgacttattt | ttagagagtt | 28560 |
| taaaatttag | gtttttttta | tggtttgttt | ttgtttgttt | gttttttggt | ttttttttcc | 28620 |
| tcattaggaa | aacactagta | cttttcagtt | accttgattt | ttaaattaat | ctgcagggtc | 28680 |
| ccattcaaag | gccttggggt | cctttcaaag | gtcagtataa | ttcaagctta | gtttatgaag | 28740 |
| gactgaacat | acccaaagga | ttttgcatgt | ggatctttac | tgccactacc | acaaccatca | 28800 |
| acacctacac | acacacgaca | cacacacatt | ctctctctct | ctctctctct | ctctctctct | 28860 |
| ccccctccct | cccgactcc | ttcccttccc | cctcctttgc | tctcatggca | tcttttaaaa | 28920 |
| atatactctt | aaatccttcc | agggagggca | aattcacttc | ttaatctaag | taaacccaaa | 28980 |
| tggtcatgcat | cagcaccagg | actgcccac | tttcttagtt | ccattattca | tagagtatag | 29040 |
| gctggaattc | atcttgttcc | tcaagagtcc | agcattttcta | gttaaccatg | cctacattta | 29100 |
| aacttactct | catttctttt | ctactttaca | gtgttttttc | aatatactag | cattacagtt | 29160 |
| tccagatttg | atttctctcc | tgtcttattt | ccatcagttt | tcaagtctat | taagattcta | 29220 |
| cctcttcatt | tgtcttttgc | caccattctt | ttccctcata | ctctactggc | tcagccctct | 29280 |
| cattacagtc | acctaattct | aacatatata | ttgctgctaa | gttaattttc | cttaagttac | 29340 |
| tgattgtgct | tttttaaagc | cccttggtga | atatttaggc | aggactccat | gtggacatcc | 29400 |

sequece listing.TXT

| | | | | | | |
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| acagccctcc | gtggtacagc | cctaaccttc | ccttctagct | ttgccttact | actcttctac | 29460 |
| gtgtactcta | cattgtggac | aaactactat | atgctgtttt | tcaaacatgt | cctatttttc | 29520 |
| ctacctctgt | gcttttcatt | ctcttacttc | tccttggaat | acccttctaa | cccatctcta | 29580 |
| cttactgaca | ttctaattgc | tctttttcta | agcaagactt | cttgatttcc | cttgactaga | 29640 |
| aattatcttc | taagctctcc | ctatccttct | ttaaagcatt | tttataagtc | tcaagtacca | 29700 |
| actctacatt | gtgtttttgt | tgaccttact | atatctacta | catttttaac | ttcttcagga | 29760 |
| aagggtggcgt | atcttactca | tctttgtatt | gcctacaata | tctagtccag | gttctgaata | 29820 |
| ataaatatth | ttatatgtgt | tctgaagcac | actgaccaat | gaagataaga | aatcaagagg | 29880 |
| ctagttcctt | atthththth | atthththth | ttgagacagt | gtctcacttt | gtcaccaggg | 29940 |
| ctggagtgc | gtggcacaat | ctcagttcac | tacaacctct | gcctcccggg | ttcaagtgat | 30000 |
| tctcacgcct | caacctccca | agtagctggg | attataggca | tgtgccacca | cacctagctg | 30060 |
| atatttatat | ttttagtaga | gatgggggtt | tgccatgatg | gccagcatgg | tctcaaactt | 30120 |
| ctgtcctcaa | gtgatcttcc | tgctcagcc | tcccaaagtg | ctgggattac | aggcatgagg | 30180 |
| cataagccac | tgcgcccagc | aagatgctct | tttctcagtc | acctaaatat | aatctcattt | 30240 |
| ttagttatag | aaggtttgaa | attggagtga | atagacttta | cttaattctg | actttatttc | 30300 |
| tgtagctttt | tttttttgag | atggattctc | gctctatatc | ccaggttgga | gtgcagtggc | 30360 |
| acagtctcag | ctcactgcaa | cctctgcctc | ccacgttcga | gtgattcccc | tgctcagtc | 30420 |
| tcccaagtag | ctgggattac | aggcacccac | tatcacaccc | agctaatttt | tgtattttta | 30480 |
| gtagagacag | ggtttcacca | tgttggccag | gccggtttcg | aactcctgac | ctcaagtgat | 30540 |
| cctcttgctt | cagcctccca | aagtgctggg | attacaggca | tgagccaccg | tgccctgcct | 30600 |
| atthctgtaa | cttttgataa | gtcatttgat | ctgttgttgt | tgttttctca | tagtaacaaa | 30660 |
| gtagaagtaa | ttttctgcct | gctttactag | ataaattaag | gggaaaaaaa | taagatacgt | 30720 |
| aaaaatgtta | tttgttatta | aaaagaaagt | tgttatttta | aaggttctat | aaagacatag | 30780 |
| agtgccttatt | agaaattgag | ctaacacatt | caggaaagga | taggaagagt | ttgctgaagt | 30840 |
| tctttcttta | gggattcttg | tgtaccgata | gcacagttaa | agagcaaact | cataccattt | 30900 |
| ttatatttct | gtgtatttga | ctaagcttac | tggtttcaat | gattaactgt | tatcccaaat | 30960 |
| atggattatc | tttcagccaa | ctcagggaat | cacagctact | gagtagtggt | tgctcagatct | 31020 |
| cttgggtgtg | ctggagtgag | taaaagggga | atgaattact | gtgttcattg | tgagacttaa | 31080 |
| ttgaacgggt | attcagttga | tctaggtgat | gggcactttg | ttacttttat | tgtaacaaat | 31140 |
| ttgtatattt | agttgcttta | aaactttatt | tcatgctttc | attaggcctt | gtgaaaaagg | 31200 |
| gtaaagaaca | aaacacacag | cgaagctttt | ttctcagaat | gaagtgtacc | ctaactagcc | 31260 |
| gaggaagaac | tatgaacata | aagtctgcaa | catggaagg | aagtgaaaat | tatttggtgat | 31320 |
| tgattataca | ctttatttat | acatagacat | tgtagtatta | agataacttt | agaattgtga | 31380 |
| gggaagggtt | acagttccat | ggtgtttggt | tatgtaacat | ttatatcttc | aactcatttg | 31440 |

sequenece listing.TXT

| | | | | | | |
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| catgtgatct | ccaaaatgca | gaaccgtgta | gtaatttgcc | aatttgaggc | acaaacttaa | 31500 |
| attacgtgaa | ttgtggcact | ggtgttccag | gcttaatcag | ttggctttgc | cagccacaca | 31560 |
| atatttgaat | cctgataggg | cttaattttc | tattaatcat | ggttttatat | ctttgttcaa | 31620 |
| tgttgaaaca | tagtcatcag | tgcaagaaat | aactatcaaa | cagccatgat | gatgagatga | 31680 |
| atgaaaaagc | agcctagact | ttatacgagg | ggaatttttt | aaagagtaat | gtataggccc | 31740 |
| tgggcaggaa | gtaggtcata | ggtggtatca | taggaaaaat | gttcattgat | tttcaaaaac | 31800 |
| gtgattaatc | cactagtgac | agtaaatttt | atcaaagctt | actggccatg | tcagactcaa | 31860 |
| ctacttatct | ctgctttttt | tttccttagc | attgtaaata | ttttttttta | ctgctttggt | 31920 |
| cttcatacac | aggtattgca | ctgcacaggc | cacattcacg | tatatgatac | caacagtaac | 31980 |
| caacctcagt | gtgggtataa | gaaaccacct | atgacctgct | tggtgctgat | ttgtgaaccc | 32040 |
| attcctcacc | catcaaatat | tgaaattcct | ttagatagca | agactttcct | cagtcgacac | 32100 |
| agcctggata | tgaaattttc | ttattgtgat | gaaaggtaaa | ttagatctaa | aatgtgaatt | 32160 |
| tgaaattttt | aattagtcta | cagcattact | gaatattcac | catagcaaag | attcagcgct | 32220 |
| ggccatgcat | ggtggctcac | acctgtaatc | ccagcacttt | ggaaggctga | ggcaagcggg | 32280 |
| gggtggatca | tctgaggcca | ggagattgag | accagcctgg | ccaatgtggt | gaaaccccat | 32340 |
| ctctactaaa | aaatacaaaa | attagtggga | cgtggtggca | ggcactactc | aggaggctga | 32400 |
| ggcaggagaa | tcgcttgaac | ctgggagggtg | gatgttgtgg | tgagctgagc | tcacaccacc | 32460 |
| acactgcaag | cctggatgac | agagcaagac | tcccatttca | aaaaaaaaaa | aaaaaattac | 32520 |
| tcaatgttaa | actatacttt | ccactaaatt | gaacagaatg | atacatccta | taatattaga | 32580 |
| ttaactttgt | aaattaattc | agccacattt | attgaacatt | tactctgtac | tatgaacact | 32640 |
| tactttacta | ggtgctatcc | agaagttaag | atgagtcttt | ttttcccaa | taggggctct | 32700 |
| acttacttag | agaatttcaa | agatatgcag | tgtgtatttt | gagcaaagat | agattacctt | 32760 |
| aggttgggga | ctagaaagcc | aagtgtttgt | acatctcttc | atcctacata | ttttccctga | 32820 |
| gaagcttcaa | ccttgcccat | ggtttctatt | actatttccc | acatttcttc | ctgtaactaa | 32880 |
| ttctatttaa | ttgccaaact | aatattttcta | tctggatatt | cttctgtatt | gtaaactaag | 32940 |
| tattactgta | acaactgtac | tactactgcc | cccaaacaac | atcatcatca | aaaactgcct | 33000 |
| ttcttcctat | aatgcttatt | gtggtttta | acaccaccat | acacacatga | ctccagcaaa | 33060 |
| actttggaag | tcatctgtaa | cttttctttt | acattcattg | gctacataca | gttggtgtct | 33120 |
| aaatcttaca | gatttactat | ctacatatat | ctcttgatcc | atttcctcct | ttccatcctt | 33180 |
| gcactcctgc | cattgaattc | attagctcat | tattactctt | gacttgagtt | gttggcatag | 33240 |
| ctgccttttt | gccaaacagat | ttgtaccctt | ataatctttc | atctaagttg | ccagaaagtg | 33300 |
| ggtgtcctaa | tgtgaaaatc | agatcatgtc | attctgttgt | tgaaaatgcc | tcaaatgctt | 33360 |
| ccctccatct | ttgcacacaa | aaatattttg | tttataaaaa | tactagatga | gggaagtaaa | 33420 |
| tttttcattt | atcaaaagaa | gatgtgtatt | ttagaagact | gaaaaaaaat | agacctacac | 33480 |
| aatacaatct | aaacttagca | tggcaaacaa | agatatattat | gctctggccc | taactctgtc | 33540 |

sequece listing.TXT

| | | | | | | |
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| tggccttggg | acttaactgt | tgtaaaattc | acattcctta | tctataaaat | aagaatcatg | 33660 |
| gctgggtggg | gtggctcatg | cctataatcc | tagcactgtg | ggaggccgag | gtgggtggat | 33720 |
| cacctgaggt | caggagtttg | aaaccagcct | ggccaacatg | gtaaaacccc | atctctacta | 33780 |
| aaaatacaaa | aattagctgg | gtatgggggc | acatgtccgt | aatcccagct | acttgggagg | 33840 |
| ctgaggtagg | agaattgctt | gaatccagga | ggcggagggt | gcagtgaacc | aagcttgcac | 33900 |
| cactgcactc | cggcctggga | gacggagtga | gactccatct | caaaaaacaa | aaacaaaaca | 33960 |
| aaaaaaagac | ctcagaagga | tgttgtcagg | attaaaggag | tccattgagt | gcctagtaca | 34020 |
| gatagtgaat | gcttcactac | tgggtgtcaac | tttaagaaaa | tgaatataga | aaagctaaga | 34080 |
| attattttaa | ggtgtttact | actagcatgt | aaatgtatga | tgggacagag | atttccatcc | 34140 |
| tattttgagg | aattatTTTT | tatttttttg | aaaacttaag | gtaacaaagt | agagaggagg | 34200 |
| ccagggagaa | aggaaggtag | tggagcaaaa | atgagaaagg | gagtgcatt | cccctctagt | 34260 |
| tatagcagaa | aattagcaaa | atgatcatga | caggaggtaa | cagtaaagac | agccagctca | 34320 |
| tatatcaacc | aagacagttt | tgagtttgac | cagcagactg | ttattttctg | gttttagagct | 34380 |
| ctttccagga | acttcttgca | tctataaccc | ctgagaacca | agctatggaa | aaaattttgc | 34440 |
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| tgctattttac | tatactgagt | aataatcatt | taaaattatt | caacacttta | tttgagcatc | 34560 |
| tactatgttc | atggcactaa | agtagaaatg | aagatgaaca | gttcctgcct | caaaataaat | 34620 |
| gagtagtata | ctgctttaga | tcattgggtt | cctagtccat | taaaaacact | ttttgggtcat | 34680 |
| attttctgga | caccccgacc | cttttggtat | agaatataac | ctatgtaatt | ctctaaagtt | 34740 |
| aaattaacct | cacttttctt | gctctaatat | gtgtaaaact | gaccttctag | gaaagcatat | 34800 |
| acagtttata | tttttgactt | cttggtatct | tttagtgata | gacatacctc | agattgagaa | 34860 |
| gcactgattg | acattagatt | aatcagagc | ttcctatgac | aatataaaca | ataccttcat | 34920 |
| taatctgatc | cccctaccta | cttcttcagc | atcatctcat | atctgtctcc | actaatcata | 34980 |
| ttatagaatc | tttgttacct | gcacatgtt | aagcattttt | aaaaatcttt | tgttttatacc | 35040 |
| ataccttttt | cctgaaagcg | gttttgccct | tcctttgtct | ctagtcataa | gtctcctata | 35100 |
| agaggctgtt | cctcattcta | ccattccttt | gcattggatg | gattccatgg | aatagattct | 35160 |
| catcactgca | tttatcacat | tatttcctaa | gtagtacagt | acatctactg | gaagattagc | 35220 |
| cacgtattga | gttttgtctt | tgcattttca | tgccctagaat | aatgccgggc | acacataggc | 35280 |
| atattaagat | ttgaatagtg | aaaaagtttt | taattccatg | gggattttat | ttaaacagaa | 35340 |
| aaatataaga | ccaattagaa | ttatttttaa | agcataattt | caagaaatat | gactgatttt | 35400 |
| gtttaaaaac | atgttttcct | ttataatgct | gccacctggg | gttgctgtgt | ttagagatgt | 35460 |
| ccctttgtaa | agaattgagg | gtttgagttg | agtttggttt | ggtttttggc | aaatcagctt | 35520 |
| ttcctttgta | tatttatttt | gtaataaact | atggaagatc | ttgcctttta | gtgtgagaac | 35580 |

sequenece listing.TXT

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| ggtaggggtt | tttttttgac | acacagcatg | ttatataagg | tttgcttgca | cctcggtagg | 35700 |
| aaagtcctct | gaaatctaaa | ggctgagaat | ctaaaagctt | aactcatgtt | ttgctcctag | 35760 |
| aaagacttga | gaagagagta | tttctgttca | gcatgggtact | aagaagacag | ctttctcttc | 35820 |
| ctcatgtcat | ggttgccatt | tcatactgct | tacagagaat | aagatctagt | ctctgtctta | 35880 |
| aataaagggtc | tactctctgc | cagcgagcta | gatagggtaa | ttggattggt | ttccaatcta | 35940 |
| ttttcatttg | aaatattggt | ttatctgaaa | ttactcccat | aatttcatgt | aatgccaaaa | 36000 |
| actaaactaa | gtacaagagc | atcttcaaaa | accaacataa | ttcctttagt | tcccatttag | 36060 |
| tgtagatgct | ctttggttga | tgatattaga | attgtgtaat | ggctattgat | ctctcaaagt | 36120 |
| gagggtgttg | ctaggggctt | aaaagttact | acataaagaa | tttggtttta | tgaagaaatg | 36180 |
| ttacagattt | tatctatatt | ttaaaataag | tgtaagtgc | tacctttata | actttttacca | 36240 |
| tgtagtttag | tagtatttct | tatctgttta | ttaataccct | gccttgttac | caaaagtatg | 36300 |
| tataatgaga | tgtaataaga | ataggtaaca | agtaggctgg | gcacgttggc | tcatgcctgt | 36360 |
| aatcccagta | ctttgggagg | ccaaggcggg | tgaattacct | gagttcagga | gttcaagacg | 36420 |
| agcctgacca | acatggagaa | accccatccc | tactaaaaat | acaaaattag | ctgggcatgg | 36480 |
| tggcacatgc | ctgtaatccc | agctacttgg | gaggctgagg | caggggaatc | gcttgaacct | 36540 |
| aggaggtgga | ggttgcggtg | agccaagatc | acacctcatt | gtgctctcca | gcctgagcaa | 36600 |
| cacgagggaa | actcttgtct | caaaaaaaaa | gaccaggtaa | caagtttggg | tgaacaggat | 36660 |
| taaagagtta | aataacagga | ggaatctaga | ggacttaag | aaatgtgtgg | tgttggattt | 36720 |
| aataactgta | gttgccaaag | gtgaggtgta | aatttattct | aagcaaagga | ggatgctcat | 36780 |
| ttttgaaaat | tcacttgtcc | ataagattaa | tgcttatcag | ttaacttggg | aggagaaaaa | 36840 |
| tttttcttta | tcagtgtctc | cctttttttt | cttaaactct | gtatttttta | ctaacagaat | 36900 |
| taccgaattg | atgggatatg | agccagaaga | acttttaggc | cgctcaattt | atgaatatta | 36960 |
| tcatgctttg | gactctgatc | atctgaccaa | aactcatcat | gatagtaagt | acaatggaag | 37020 |
| aactcagaga | tattctaatt | acttaactgt | tgcaacctct | gtacagtttg | gctacccatc | 37080 |
| taattctctg | gttaaaagtt | ctagactaaa | tgtgttaaca | ggcctattca | gtagagatct | 37140 |
| tgaccatttt | gtgttttgta | tgtgttgcaa | caaatatcag | taaaaataga | atcatttaat | 37200 |
| catagaaaaa | acttcctggc | attttaaata | caaagacttt | tgaaaatcca | aatatttatag | 37260 |
| agtattgaat | agcataattt | tcagaattca | cataaatact | cagaacagtg | gttggtatgt | 37320 |
| aaaaggcact | cagaaagtat | ttgtacaatc | aatgaatgtg | aagggtggtga | acatcacctt | 37380 |
| tggtataaag | taccatttta | aaaaatgctt | ataagtgc | agttaggtat | ttatatattat | 37440 |
| gggttcatga | aatattttga | tataggcatg | cagtgcataa | ggataaatgg | agtacctatc | 37500 |
| acctcaagca | ttatcttgtg | tgacaaacaa | tccagttata | ctcttttggt | tattttttatt | 37560 |
| ttattttatt | ttattttttt | cttttgagac | aggatctcac | tctcgcccag | gctggagtgc | 37620 |
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sequece listing.TXT

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| tttttagtat | agacagggtt | ttgccatgtt | ggccaggctg | gtctcgaact | cctgacctca | 37800 |
| ggttatccac | ctgccttggc | acccggcctc | ttttagtttc | tttaaaatgt | acaattaaat | 37860 |
| tattttttac | tatagtcacc | caaaacaagt | acctttgaca | taagatttga | ttctgaattt | 37920 |
| tactcaaagt | aatgttaaga | tccccaagat | aagttaaact | ttggactatc | tcacctgttt | 37980 |
| aatctgtacc | tatgcatgac | ttcccactgt | gcttgaggat | acctgaatat | cactgagttt | 38040 |
| gtgtgactga | tcagccttga | actcaagagt | aaatccaagt | ctgcagtcag | gacaccccaa | 38100 |
| tcctcaaaat | aataccatca | ttagcattta | tttagtactt | tctcccaaat | cagtatttta | 38160 |
| tttaaatgtc | caaaagactt | acaatgtggg | atcaatttat | atttaaatat | gctacatata | 38220 |
| gcttttttaa | gcatctttgg | ttctctggaa | accatagtca | gaatttaagg | aagttattgt | 38280 |
| ggcaccattt | tcttgaaaaa | ggctattgat | tatttcttaa | tctgacacca | acctaagtca | 38340 |
| ttaaaggaat | tttagttact | gaagattgta | tattcatgaa | ctcttcactt | agctcactgg | 38400 |
| cagcaaagga | gtttttattta | gggggtttga | aaaaggaaat | gggtacattt | tcagctattc | 38460 |
| tgggacgcac | tgtcagaatg | taagcagtta | caactgattc | cactaaataa | acatttgttt | 38520 |
| tccaaaacaa | tgatgaacat | tcagcatctg | ttcatttaat | tgaaaattca | aagttaaaat | 38580 |
| attttctctg | catgattcct | tttcttttcc | cccctagtgt | ttactaaagg | acaagtcacc | 38640 |
| acaggacagt | acaggatgct | tgccaaaaga | ggtggatatg | tctgggttga | aactcaagca | 38700 |
| actgtcatat | ataacaccaa | gaattctcaa | ccacagtgca | ttgtatgtgt | gaattacggt | 38760 |
| gtgaggtgaag | taagtttgag | aaataaacat | ttttggggaa | caaatagtaa | ttcttttttg | 38820 |
| atactctgtt | catttatagg | aagataagat | aataaatatt | aactaaattt | taattctttt | 38880 |
| acatcgctac | caaattatta | ttttctatac | tctgacctag | gtttccagtc | cagctatttc | 38940 |
| acagtgatgc | tgctaaacac | tgtcagtagt | tgtctatccc | cataccttca | ctcctatttt | 39000 |
| taaaaagacc | atgaaaaaaa | taccagatcc | attgattggg | ttgggtcta | tatacagata | 39060 |
| tcggcatata | ctatctcaag | acagctgtgt | tcttttttga | ggaagaatcc | tggcctagat | 39120 |
| ttgtatcata | gctctaccac | tcattagctc | cctgaccttg | gggaagtctc | ttcatttttc | 39180 |
| tgaatttcat | ctatgtagat | aatccttcag | aagggtataa | tgaaaattaa | atgaaattct | 39240 |
| atgagattag | ggagggggga | gggtagcat | taggagatat | acttaatgtg | aatgatgagt | 39300 |
| taatggatgt | agcacaccaa | catggcacat | gtatacatat | gtaacaaacc | tgcacgttgt | 39360 |
| gcacatgcac | cctagaactt | aaagtataat | ttaaaaaaga | aaagaaattc | tatgagatta | 39420 |
| ataagctata | tgatgtaata | catggctctt | gtatattcat | gaactcttca | cttagctctt | 39480 |
| tggcttgtga | atattatgta | catcaaaatt | taatttttca | tttgatctat | tttactagac | 39540 |
| tcctgccccca | tctagtctac | ctgtccacat | tattaccaca | ttctagtcca | tcttgcccat | 39600 |
| tactaccagg | ctaagctttc | tagtgtggat | atgtcatcat | cttattttcc | ttagaatttt | 39660 |
| agcgatcttt | ttatcatttc | caagataaac | acttgcctag | gtgtacagca | tccttgttta | 39720 |

sequece listing.TXT

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| aggaagactt | tgggcagttt | ttatttttgc | tacttctgac | accatccttt | aatgttttaa | 39840 |
| tattagtgcc | acagagtctt | tttgtgactt | taccattatg | taagaatctt | ccacttgga | 39900 |
| tgtctttctc | ttcctcacac | cccagtctgc | ctagcaaagt | ccacttgatc | ccaagtatca | 39960 |
| gcttgtttagc | ttctcagtga | agcaagcctt | ctctatttta | gcagttatca | cagtgtattt | 40020 |
| taattgttta | catacttact | ttcacaatgg | gttataaatt | tcttaagggtc | aagggttggc | 40080 |
| tattttaatc | tttgatttat | cagttcattt | cagatagtga | acatttaata | cgtttaattaa | 40140 |
| aggaataatt | tacatttaag | ccaaacgtga | agataaacta | ttgctcatca | tccctcttca | 40200 |
| gccgtatcct | gtaggtggta | tcaccttata | ttcttaccac | caaagaaaat | atggcccctc | 40260 |
| tcttagaaa | atcttaatca | tttatctgtg | tatctttagg | actatcctta | gatcatgcct | 40320 |
| cacatattga | tgccaaagag | ttcttttgtg | ccaatttcat | aatgtgtgtc | agcacaacaa | 40380 |
| ttctgaagat | ttgttgggtg | ctttcatgta | cttgactaca | aattgccttg | ccattactac | 40440 |
| tcttctcaaa | ggatatctga | aattcttttt | ttcttttttt | tttttgagat | ggagtctcac | 40500 |
| tgtcaccag | gctggagtgc | agtggcgtga | tcttggtcca | ctccatttcc | cgagctcaag | 40560 |
| tgattctcat | gcctcagcct | cccaagtagc | tgggactaca | ggtgtgcacc | accacaccgg | 40620 |
| gctaattttt | tgtattttta | gtagagacag | ggttttgcca | tgttggccag | gctcttgaac | 40680 |
| tcccaggctc | aagcgatcca | cccgcctcag | cctcccaaag | tcctgggatt | acaggcatga | 40740 |
| gccaccacgc | ccagcctgga | tatctgaaat | tcttaactga | aattagtcaa | attatcttgt | 40800 |
| actggggatt | ttttttttta | tttcaacttt | tatttttgat | tcaggggata | catgcatagg | 40860 |
| tttgttacat | gggtatatca | tgtgatgctg | aggtttgggg | tacaattgat | cctgtcaccc | 40920 |
| aggtagtgag | cataataccc | aacagttggt | caacccttgc | ccctctcccc | tagtagtcct | 40980 |
| cagtgtctat | tgatgccatc | tttatgtcca | caagtaaccc | agtgttttagc | tcccacttac | 41040 |
| aagtgagaac | atgcagcatt | tggttttctg | ttcctggggt | atctcactta | ggataatggt | 41100 |
| ctctggatgc | atccatgttg | ctgcaaagga | cattatttca | ttctttttta | tggttgcata | 41160 |
| ctgtggattt | tattgggtct | ttattttgta | ttagcatttt | aaaaccctaa | atgtgacaca | 41220 |
| gtacgcatga | gtgatcatgc | atctcaagaa | atcttgaaat | gttcctgtcc | ataaagcaga | 41280 |
| attttttaag | agaccatttc | acagtctccc | ttcccctcac | tgtatcaagt | gctcatttgt | 41340 |
| gaattaccaa | tttctcttgt | tttgacagtg | gtattattca | gcacgacttg | attttctccc | 41400 |
| ttcaacaaac | agaatgtgtc | cttaaaccgg | ttgaatcttc | agatatgaaa | atgactcagc | 41460 |
| tattcaccaa | agttgaatca | gaagatacaa | gtagcctctt | tgacaaactt | aagaaggaac | 41520 |
| ctgatgcttt | aactttgctg | gccccagccg | ctggagacac | aatcatatct | ttagattttg | 41580 |
| gcagcaacgg | tgagtagtta | tttttgttta | tcccctaaat | tgtgtctgtt | gctacaagcc | 41640 |
| ccatttcaac | taaacattac | tttacggttt | ttgttggtaa | tcatttggac | attacaagct | 41700 |
| aatatatgtt | tatagttttc | ttaaatgtat | ttgcttaaat | atttttgccc | ccgtaatttc | 41760 |
| ttaccattct | tgctttttta | tactgttgga | aattgtgctt | caaagtgtcc | ttaagggtatt | 41820 |

sequece listing.TXT

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| tcttcttccc | acataaattt | ttcctggcta | ctctatttct | gtatcctgct | gtcagatttt | 41880 |
| ctccacagtt | tagcagagtt | atatggaagt | aggcattggt | gcattaaagg | ataaaaaagt | 41940 |
| agtcatacta | taacatcaag | cattgaagat | gaaaactgca | attttaaagt | agagaacatt | 42000 |
| ttaatgtata | aaaaggttgg | tattgccttt | tgtcttttat | gccatagaga | ttaagacgcg | 42060 |
| gtatcaatag | tggattgtaa | aggtaactca | gacttatggt | tatactatac | tattgtatgt | 42120 |
| aaactttctg | atgaaggaaa | atttggtgac | attttgttgt | ttgatgaatt | agacaaacct | 42180 |
| tttgtgaaaa | agaacataaa | ttttttatat | gtgaaaatcc | ttgtggccgg | gcgcagtggc | 42240 |
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| gttcgagacc | agcctggcca | ccatggtgaa | accccgctct | taccaaaaaat | acaaaagtta | 42360 |
| gctgggctgt | gtggtgtgcg | cctgtaatcc | cagctacttg | ggaggctgag | gcaggggaat | 42420 |
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| tgggcaacag | agcaagactc | tgtcttgggt | aaaaaaaaaa | aaaaatcctt | ctatacttta | 42540 |
| gattgactca | tattttttcc | ccacagacac | agaaactgat | gaccagcaac | ttgaggaagt | 42600 |
| accattatat | aatgatgtaa | tgctcccctc | acccaacgaa | aaattacaga | atataaattt | 42660 |
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| tgcactcaat | caagaagttg | cattaaaatt | agaaccaa | ccagagtcac | tggaactttc | 42780 |
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| attcaagaat | gtatttataa | gtttgattca | aacacttatt | tgaaccacaa | attacatttg | 42960 |
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| aaaccaaag | gtgaaacgta | cattgtttct | ctattattta | tatcagtagg | acaaaaacat | 43140 |
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| tagtctaatt | tccatcacta | ttttgaaatt | ttgggtaagt | ataatatgaa | aataacaagt | 43680 |
| gttacataaa | ataaatactt | agtaactggg | cttttttatt | ctggatctgt | cttgatatta | 43740 |
| attgtcctat | gaacacaaaa | ataatcttta | aaggctaggc | tggccaagac | ttagagatat | 43800 |
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sequece listing.TXT

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| aataagcttt | aataagtgg | aaataattct | acattaggta | tttgttgaat | aaaactgaca | 43980 |
| agctaagagt | aggggatttg | acatctcaca | gccttggtgt | gaatgaatat | atatcctatg | 44040 |
| ctctggttgc | ttaatttacc | cagaaaaaaa | aatgtttgat | tcattcttgg | ttttatctaa | 44100 |
| caaaagtaaa | tctaacaaaa | acgttagaat | gaggaaagca | aaatttcttg | tttagaatac | 44160 |
| acagctatag | ttttttgtta | aacttcttgc | ccagaactct | taaaatagta | ataatgtaca | 44220 |
| ttcgttcagg | tatatgcagg | taaaataact | taggtttcta | ctcccacccc | cgacagtaac | 44280 |
| agttagattt | ttaggtagct | cagtcaccac | aggagtgtgc | cttctcagtt | caaaggtaaa | 44340 |
| ttccagtga | tgtagcatct | agttaattgg | tcaattagg | accattgtgg | gatgtgaatt | 44400 |
| accaaatagg | ttttattctt | tagaataagg | tgtttctttt | catctcaatt | ttgtaaatga | 44460 |
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| aatattgttt | ttatgtggat | agtgatattg | tcaatgaatt | caagttggaa | ttggtagaaa | 45060 |
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| gatttagact | tggagatgtt | agctccctat | atcccaatgg | atgatgactt | ccagttacgt | 45300 |
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| caaagcacag | ttacagtatt | ccagcagact | caaatacaag | aacctactgc | taatgccacc | 45420 |
| actaccactg | ccaccactga | tgaattaaaa | acagtgacaa | aagaccgtat | ggaagacatt | 45480 |
| aaaatattga | ttgcatctcc | atctcctacc | cacatacata | aagaaactac | tagtgccaca | 45540 |
| tcataccat | atagagatac | tcaaagtcgg | acagcctcac | caaacagagc | aggaaaagga | 45600 |
| gtcatagaac | agacagaaaa | atctcatcca | agaagcccta | acgtgttatc | tgctcgctttg | 45660 |
| agtcaaagg | atttatatgt | aacattcaag | ttatagttct | tttattattt | ttgagataaa | 45720 |
| tgtatgtgat | agtacatgat | ttttaaactt | atagcaaact | ttctgatata | tatgccctaa | 45780 |
| cgcaaattct | tgagaactca | aaaaactttc | taaattaacc | tcataatatt | tttctttttc | 45840 |
| tttctttttt | ttttttttga | gacagagtct | cgctttgtcg | cccaggctgg | agtgcaatgg | 45900 |
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sequece listing.TXT

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| gtatttttca | tagagacagg | gtttctccac | gttggtcagg | ctgggtctcaa | actcccgact | 46080 |
| tcaggtgatc | cgcctgcctc | agcctccgaa | agagctggga | ttacaggtgt | gagccaccat | 46140 |
| gcccgtcct | atTTTTtcta | aaataattat | aaattctaaa | attacctatc | taaatggagg | 46200 |
| agggtcttct | gacaccttta | aaataaaatc | cagctcagta | ctgtaaatgt | gtttacagaa | 46260 |
| cttgtttaaa | gttcttacag | ttgttttaaat | cagactagtt | aactaccctc | actacttaga | 46320 |
| tgcttccatt | tcttagagct | ctttttttaag | cttatctgaa | gaaaagccct | tccaatttaa | 46380 |
| gggttatttc | caattgcaca | ttccaaattg | agccttccat | cttcagcatt | caatatagat | 46440 |
| atttacaggc | ccctctttta | aaattttatt | atagttaact | tgtattaaag | ttgcttttat | 46500 |
| ttttcattac | gtattttag | aacattagct | atatatatat | tgcaggctac | atagggttttc | 46560 |
| aaactgtaca | acaggaatct | aagcatgaat | tgttacttct | atggagctag | ttcaaacaaa | 46620 |
| catatggaca | tgaccaatt | tttaagttat | actttctgta | tataatttgt | aaggggattt | 46680 |
| cacatatttt | aagtttgagg | ctatagctag | aagaaattaa | gttttatcta | ataagtgtgt | 46740 |
| ggaaaaggga | aatgattcct | tctctactat | gtctagacta | agccagatat | caatagcaat | 46800 |
| aggaaagaac | cactgtcgta | gccagaacac | atagcttttt | tccctgccta | acattcccac | 46860 |
| cttgacctag | agtgtcggga | gaggtctttt | ccctaagctt | ggaaaagaca | ttggggcttt | 46920 |
| agatgaactc | agaagtactt | tacattactt | tatttactgt | gtcacttact | cacttttgac | 46980 |
| tctgagctcc | acgagggcaa | tcacagtgtc | ttgggcattt | tagtgatact | aatacttagc | 47040 |
| tcatgacct | atgtgtagta | cttcctcaat | aaatggttgt | tgaggcaggg | cgcagtggct | 47100 |
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| gggcgtggtg | gcacgtgcct | gtaatcccag | ctactttggg | aggttgaggc | aggagaattg | 47280 |
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| ggcgagaaga | gtgaaactcg | gtttcaaaaa | aaaaaaaaaa | aaaaaaagtt | gttggactga | 47400 |
| cagatgcatg | aatacagtag | taaaaatgac | aatcacttat | aagttacagt | ttactatcag | 47460 |
| ctacagagga | tgggatatcc | agttttctga | acaactgttc | tcttgtactt | gtcaaagcca | 47520 |
| aagtgtaa | acacatcaag | tcacttttagc | aattttatttt | tgagacggag | ttttgctctt | 47580 |
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| tcgctggttc | aagcaaactc | cgtgcctcag | cctcccagat | agctgggatt | acaggcatgc | 47700 |
| accaccacac | ccagctaatt | ttgtattttt | agtagagaca | gtgtttctcc | aggttgatca | 47760 |
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| tagtgtacac | tgaaaacttt | tatgaaagga | atttcaaaaa | ttaagataaa | ccattaaaaa | 47940 |
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sequece listing.TXT

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| tttagagaaa | ttttttaaaa | accaaagaaa | actgcaaaat | aagatcactt | acctattttg | 48120 |
| cattctcaac | tgtctggaac | agcaaggagc | cattatgatt | atgcatttgg | tttgtggggg | 48180 |
| gtcttgaaaa | gtcaaaataa | tgtaacaaag | ctgatgtact | ttactcatta | gaacaattct | 48240 |
| tcacaattta | atattaatth | tagatataca | tagttcatgt | ttgataacca | gatcaatact | 48300 |
| gagtgaaaaa | tagcatagtg | ggaagagcag | gggaggggag | gtagggatct | ggagacctag | 48360 |
| agtgtacttc | catattgcaa | ctagttagca | gtaggacttt | gagaaagtta | cccaataggc | 48420 |
| ctcaggggtc | taattttata | aatgggtatg | atatgcctgc | cttatctgtc | ttgggaactt | 48480 |
| aagtaagggt | aaaatgaact | aatgaacttg | aaatgtttta | taaactgaaa | atgctatacg | 48540 |
| aatgtgagat | tgatcttgta | tttcaatagt | cccaacaata | tcactgcatt | gttatattag | 48600 |
| gtggaataaa | aggacaatat | ttaactgttt | tgactctaca | atagtgtcaa | tttagttgtg | 48660 |
| ttcagctcta | ttttataaaa | tagggatacg | catactgtag | aaaatttcct | gttaaattaa | 48720 |
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| caaaaatatg | tatatataaa | ttagtcataa | tcccagctac | ttgagaggct | gaggtgggag | 48900 |
| gatcacttga | ttccagaggc | agggcttggg | tgcagtaagc | agagatcacg | tctctgcact | 48960 |
| ccagcctggc | tgacagagta | agaccgtgtt | tcaccaaaaa | aaaaaaaaaa | aaattaagct | 49020 |
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| cttaatatgg | gagaactaaa | gaattatgta | ttttctttta | aagcgctcac | tggatatattt | 49140 |
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| gctgaggcag | gagaatagct | tgaacccggg | aggtggaggt | tgcgatgagc | tgagatcagg | 49860 |
| ccactgcact | ccagcctggg | taagagagtg | agagtccatc | tcatatttaa | aaaagaactg | 49920 |
| ctatgttttg | gggtaagtca | atggtgggtat | aatacattct | gatattttca | aactaaatta | 49980 |
| actggaaagt | atttatagac | agaatgggtca | taatggatga | caaataactt | aagaaagaat | 50040 |
| tcaaaataat | ttagggtagt | atttaagaaa | ctgcctataa | tgttattaaa | tttacaccaa | 50100 |

sequece listing.TXT

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| ttggaaacgt | gtaaaaggat | gcaaactctag | tgaacagaat | ggaatggagc | aaaagacaat | 50280 |
| tattttaata | ccctctggtt | agtttattct | ttttgacctt | gaacatcaca | aagacaaaat | 50340 |
| acatgaaaca | tttttattta | ggagctttaa | tctaagtgag | aatgactttg | gttccttagc | 50400 |
| aagattaaaa | agtaaagttg | tggctgggcg | cggtggctca | cacctgtaat | cccagcactt | 50460 |
| tgggaggccg | aggcagccag | atcatctgag | gtcaggagtt | ggagaccagc | ctggccacca | 50520 |
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| gtaatcccag | ctacttggga | ggctgaggca | tgagaattgc | ttgaaccg | aaggcagagg | 50640 |
| ttgcagtgag | ccaagatggc | accactgcac | tccagcctgg | gcgacaaggg | tgagactctg | 50700 |
| cctcaaaaaa | aaaaaaaaaa | aaaagtacag | ttgtattttca | tgtgatggtc | ttaatacaga | 50760 |
| gattaacatt | tcaaggtgga | gcttttcatt | tttagtaatt | ttctttgatt | tctctatgtc | 50820 |
| catgtgctgt | caatattgat | agaagctgaa | atttgtgaac | ttttatgact | tctttttttt | 50880 |
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| aaacccttcc | agaattttgc | tttattttct | atgataccta | acacattgtg | ggtgtttaat | 51360 |
| aaatattcat | tgactagatg | aatgtatact | taggtatctc | ttttgttttt | cagatttagc | 51420 |
| atgtagactg | ctggggcaat | caatggatga | aagtggatta | ccacagctga | ccagttatga | 51480 |
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| ctacaatact | gcacaaactt | ggttagttca | attttgatcc | cctttctact | taattttacat | 51720 |
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| tattttattt | tggctagga | gtttatccct | ttttcgaatt | atttttaaga | agatgccaat | 51900 |
| ataatttttg | taagaaggca | gtaacctttc | atcatgatca | taggcagttg | aaaaattttt | 51960 |
| acaccttttt | tttcacattt | tacataaata | ataatgcttt | gccagcagta | cgtggtagcc | 52020 |
| acaattgcac | aatatatttt | cttaaaaaat | accagcagtt | actcatggaa | tatattctgc | 52080 |
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sequece listing.TXT

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      chromosome 7, reference assembly, complete sequence

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aattaccagc асaaаатgсс атсagtсtgг gacgtgатсg ggcagaggтg tactсacagt 180
agtгтааата сtgсtgтааа tagttgtсtg atggтgгсtt tgacagtгag сtagсttсtg 240
agtттссct тсttттtата сtgттттсtg tgсtgгсттt tttгаатсtt сctaatттtt 300
сатсtсttта асaaатсct атгаagtтга аaccгггааg tttgсtсtaa сатттссaga 360
гаaggтacгt tactттттgс таагaгаата тсtgтаагag тttаgагagg ggtgggаттт 420
тасgattгсt ttactgгtag атттggсaat tgсtttactt tttттттттt сtgagactgt 480
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sequenece listing.TXT

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| gcgtctcaga | acctgggatc | ctattgggcc | catcataggg | ctacagtaat | tgccctgatga | 1200 |
| caactgaaaa | tgatagaata | attgtcaaga | gagacatttt | taatgggcaa | ggtgatttaa | 1260 |
| gtatgcatga | acaagctatg | agggaagatg | agcttgttta | tgatgcaagc | cagtataaac | 1320 |
| acagtcggag | gatgacacag | atagctgcac | ttttcccagt | gacatgagca | agttcttact | 1380 |
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| cctaaatttc | atccatgtat | tttcacttta | ctgtagccta | agtgacaggt | ttttgtttac | 1500 |
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| agatcttgaa | tcactttcac | cgtcaatagt | gtgtgtaata | caaaactttc | attcttattt | 1620 |
| tcgattgttc | cttatctttg | aactgttctg | actttaaatc | tgattatcta | tagttgattc | 1680 |
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| tttggaaca | aagtatactt | gagaatatgt | ggagagggtt | aatgattagc | ctgttggttt | 1800 |
| tcacggaaag | cagagtccta | tacctaacag | agattacggg | attgaagggt | tacaggtatc | 1860 |
| tgtttagaaa | tatggtgctc | tattagaaaa | caacttgttt | gacttttttt | tttaaaccce | 1920 |
| tgtaaaattt | cacagaatat | gctcacgttt | tatttttaaag | atcactaaaa | ttatatgcat | 1980 |
| tgaaatacta | ataatctttg | taaaagggtg | atagataaatt | tgtttacttt | attattcatg | 2040 |
| aaggcaagta | aggcatggta | ttctgctatt | gtgggcatat | tattaacatt | tcatagggat | 2100 |
| ttgtgctgga | atgtggaatg | ctgcttcttc | ataatttaaat | actcctatgc | ataatgaggt | 2160 |
| ttgtgattag | ttgatagaga | gaattggccc | aactccattc | tgaaagcaga | taattttacat | 2220 |
| tgttctctag | agtctagaat | ctaatagggt | cttttagtgca | ataaaattaa | atgctacatg | 2280 |
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| tttcctctaa | aacaatgaat | tttaaaaatt | gtttctagaa | catatatatta | cctagctctt | 2400 |
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| tacatttttc | aaaaactttc | tgtgcattca | gattttttgtg | agggtatatt | cctttaaaag | 3060 |
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sequece listing.TXT

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| ctgtgttgtc | aagtgtaatc | ttcaccccta | tttaccaatt | cattaagatc | tattgatgca | 3300 |
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| tggctagcga | ggtttgtgtc | tgcttcgatc | attaacttta | catccactca | ccttcttcta | 3480 |
| aagaagtgtg | agtgactcct | gtagtatta | caaagtctct | tttctcagac | atttgaatct | 3540 |
| ttaggaacca | tagaagaaaa | aaagaaagag | aaaaggaaac | tcacagaaca | gacgtcatga | 3600 |
| aggctaatta | aagcagaaaa | gaaacaaagc | tattgtagtg | ttttaaagaa | ctttctgggtg | 3660 |
| atgattgaag | ctgtgggttc | aaaaaaaaaa | gctatacaga | aggccaatgg | ctttttttta | 3720 |
| tgagaacctg | tcgatcgcaa | aggattcagg | cgtatatctt | tcattgtttg | ttaaactgag | 3780 |
| gcaaatgttt | taagtatact | tataagaatg | atgtggctat | ttcaataaac | ccagggtgcct | 3840 |
| ccaatctgcc | ttctgattct | tctgtaagaa | ctcataatga | ctttcttcta | aattggaata | 3900 |
| acagtgtgtt | tcctagagct | ctaactgaaa | gactagtaat | taaaataaaa | ctgacaaaatg | 3960 |
| ataatgtaaa | atttttctgt | ctaaatgcat | taaattgtaa | tgctaaacac | acactcttct | 4020 |
| cagttgcttt | tatcaactgg | ctatatcttt | cctgcatttt | gcctgtatta | ttaaatgcta | 4080 |
| agttacagaa | tacatctatg | ctaactgact | gtgcatataa | aggcaattgt | tataggtata | 4140 |
| tgtatgtcaa | gtatatgcat | gtatatacat | atgtagtatg | tcaaattttg | ataatctatg | 4200 |
| tgtattaaat | atatacttta | tgacatactg | ttattggcat | tttctattgt | ttggcagcaa | 4260 |
| tagtgaattc | atccaaaata | ggtggatttc | attttacata | ggacaagaaa | tacttgcaaa | 4320 |
| cagcaagttt | aggtttgaaa | tttgacggaa | aggtttatgc | catgttttga | tattctgatg | 4380 |
| tgtgctaaca | tttaaaacag | tttaaaatag | ttacatgttg | tgtgttaata | cagggtgtttt | 4440 |
| tggagtaggt | ctgcttcata | gtcacttggt | ttatacacac | ttgatgccag | agtataaatt | 4500 |
| accctacatc | cctcacagtt | atttatcctt | atagcatact | tgctattttg | atcagaccat | 4560 |
| ggtatgagtg | tgactcatgc | taacattagt | ggaagctaag | tataaaaatg | tttattctaa | 4620 |
| tgccataaat | aaagttcaat | ctcaagaata | acgtataaac | tattttgaaa | ctatgccgctc | 4680 |
| aaaaaacctc | tgtgacaggt | cgcttacata | cacatagaca | cacacacaca | cacacacaca | 4740 |
| cacacacaca | ccccagaaag | gacaaaagca | gtttcctgac | cagattctaa | aactccattc | 4800 |
| aacacaatca | tgtggttaca | ttaaaattct | ggccttacca | ttgcatccac | ctgctaggct | 4860 |
| catgttggac | ttttgcacta | agttgagacc | ggtggaagaa | atttctctaa | gcgtaccgcc | 4920 |
| tatgctgtgg | gtcttccaat | gggaaggcaa | gaggtgggtc | tgctgaggag | cagtattaaa | 4980 |
| gggacatttg | gcacccaaaa | gatagcctgg | aagtaaaaag | tgctgaaagg | gcaagagaat | 5040 |
| gaggatccgt | ggaagagctg | tattatgctc | aggaaaaaca | gcaagggatc | ccaggggagtt | 5100 |
| gctgtgggcg | ggagactgaa | gattgaagta | aagtaagcct | gaggggttaag | gaaagatatg | 5160 |

sequenece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tggcaggaaa | ggtgaaaatg | ccatcacaag | agaagtacat | actcagagct | ctcatttagcc | 5220 |
| aggggatcag | tgaaggctat | tgcaagtagt | ccagcctttg | ggaatttgac | tgtaagtgga | 5280 |
| cccactgcat | ggaagcttgc | aagcttgcac | aactcaatca | ctaagctttt | taaataaaaa | 5340 |
| agagggaggt | tttgcttgct | aggcaggtct | ttctatgttc | ttggagagct | aattattttct | 5400 |
| tattgcctta | cattttttact | gttaaattct | gtttcctaaa | cgaaaatatt | cctggtttgca | 5460 |
| ggatttgaca | atttttcttc | ttcaggcaaa | gacaagaaaa | tctgtgacag | aatatacttg | 5520 |
| cttacctggg | gtcttgtaaa | ctgtagccag | tattttatttt | tgtattggca | actaggtaac | 5580 |
| attcttttagt | ttttaagtcc | tcctcttaca | tatctaagac | atacagttag | ataggataac | 5640 |
| acattgcaaa | aaatattaca | ttttggcatt | ataaattaat | gaaaactcaa | tttgtcagag | 5700 |
| gttataaagt | agcagggtga | aataaacttt | ccctaagctt | cctatcccc | ttgttttgaa | 5760 |
| aaaataaata | ttaatgctat | aaaggattga | ttttaaaaca | tttaaatgat | ttaatgaatt | 5820 |
| aaactaacat | taaaatttat | atatttataa | ggaagactga | caatttagca | tgtaccttga | 5880 |
| aaagtaaaaa | ttggtgtaca | tttttacatg | tttgagaaat | aaatatatac | agaaattata | 5940 |
| tgaatgtgaa | gacaagatgt | tagaatatga | agattaatgt | gaaaatataa | ttttgaaata | 6000 |
| tatttttgag | taattagtta | accagaatta | tcaatatagt | attataaaat | ctctttcaat | 6060 |
| tatacttctg | aaggggggctt | ctgaactata | gatacagaat | cataatgttg | cagtaaaata | 6120 |
| catctacatg | gccaccattc | tttcaaattc | ttcattgcac | tttaagtga | atagcatagg | 6180 |
| gattaaatac | ttaatttttag | tattttataa | tattttcata | attaaatatt | tatgttttgt | 6240 |
| ttccatttta | aacttatttt | attttttatc | caggagcaaa | atataatata | cttagttgct | 6300 |
| aagttaatta | atagctgatt | gaaatggaag | ataagttttt | cattggcttt | acttatgttt | 6360 |
| cctagatttt | gttattgttg | aagatctaac | agtattatct | ttgctaaaat | gtagtcatta | 6420 |
| tcatttaaaa | aatattttgt | taaaatgtcc | ttctactttg | catgtttgaa | atattaacct | 6480 |
| ttttgaatga | aagtctgaat | ttttactaaa | gtgttttttt | ttctaatttg | tgtatagcat | 6540 |
| tttaggcatt | ttgtttaaat | aagtaaaaag | tagtaacaaa | tacttaataa | acaagttaat | 6600 |
| tttaatttac | ttaaaattat | gtcacttggt | atagtaaaaa | tatcacttgc | tataacagat | 6660 |
| aaccttcccc | aatcatgtt | ttaaaagaca | tcctgcttca | gtttttaaaa | attgaaaata | 6720 |
| ttcatgtgct | gtttcaattt | ttgttcttac | acattcaact | atataccttca | tattttggcat | 6780 |
| tttgatttat | taggcaatct | tagcattaaa | gacttttagc | aaagcagtgc | tggatctcaa | 6840 |
| atgcactatg | catggtgcct | atgatgaatt | aattccacta | gagcacaaga | gttatcatta | 6900 |
| tttaaacgct | agtttctttc | agaagtttta | aatcacagtc | aagttttcaa | aattagaact | 6960 |
| taactaatat | tttgaggtaa | acgtatgagg | tttcttgtta | catatgttaa | gttttcttaa | 7020 |
| tatttaactc | tttcttgtgt | gaatctgcat | agaaatattt | aatatttgat | attgataatt | 7080 |
| gatcaaagat | taaggaggta | tttaagaata | tatgttttaa | atttgatgcc | ttacttttct | 7140 |
| taaaatgtca | tattcaaaac | tattttggatt | taatgcatat | gtttgattaa | ataaattgga | 7200 |
| cactggaatg | aatcagatat | tagacataaa | gtgtctttca | aggtcactgt | aatcattttg | 7260 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|------|
| tttaagaaaa | gttgacgaaa | tgaattgtta | gaaatgtttt | atatgtactg | ttatttgttc | 7320 |
| ttagttttct | gggaagtc | at | ttttttttca | tccatttggt | ttgattaaat | 7380 |
| ctccacaaaa | atgagagtta | atattaaggc | actaagatta | taagacagac | tgtttatgta | 7440 |
| gaatgcagag | tgtggttcaa | agtagaggct | at | tttttatct | tctttataat | 7500 |
| catagacaga | ttgattgatc | tatctttata | aacatatata | gatacacata | ttcatgtgca | 7560 |
| cacatatata | catgggaatg | tggagtggaa | aagagatagg | gagcataaga | aacaggggaag | 7620 |
| gagaagagat | gagaaagaag | accatagaga | aagttgagta | agcaacaagg | accagtagtg | 7680 |
| tccctggtgg | tggctgagat | aacacaatta | actatgcttg | tccaggtcaa | gtttcaaact | 7740 |
| tttaaacatt | gctgcgaata | cggaatagga | tacatgcagg | tttctgttat | cactctggca | 7800 |
| tgtaactatc | tcacatgata | cagttttata | ccaatagaac | atataactct | acgaggaaga | 7860 |
| aataaaacca | acaagtctag | cattcagtac | taccctatca | taaagtaagg | aggcctaatt | 7920 |
| gagctatgtc | tttatatcct | gctatttgta | caaataaaag | actacatctt | gatgcaaaat | 7980 |
| aaacacaaaa | gcactgttgt | gactataaca | gggagtcata | tactaattta | tataataagt | 8040 |
| ggttggtgcac | gctttattca | agattatggc | tgcaagaaat | ggcatgaatt | gctgggtgtg | 8100 |
| tttaatgctg | gattatagca | atttgaaaca | tgtcaaacac | atggctaattg | cctcatgctt | 8160 |
| cactcattct | tgcgtaaacc | tgcatagcca | ccatccatta | tacccttggt | aacaacacaa | 8220 |
| ttctgcaagt | aaatattggt | acactaagta | acctttcaat | tcaagttggt | taggaagaga | 8280 |
| aaatgcaatc | ttgtgcagtc | agttccagtg | tcagtttaat | gtttcaaaag | ggaagtgggtg | 8340 |
| tagagaataa | gtatctgtac | agtgacttgc | ttaaaaaaga | agaaagaaaa | aggaaaggaa | 8400 |
| ggaaaactta | atgcagggga | gaaaagtcta | actgtatcgt | ttgagtgtaa | gatctgaaga | 8460 |
| gttattttct | gatgtggctg | aaaagttgtg | tacgatgaaa | gacttaaggg | tttaacttac | 8520 |
| agttcagaca | aacattaaaa | cagggactcc | cagattcatc | tttcccttta | atgatctgga | 8580 |
| atttattttc | actgattttt | gtaaaatggt | tgtggtggga | ttgataagaa | tgaataattt | 8640 |
| agcttggtat | gtttcggatc | ataagcacat | ccactctgaa | agaatatgct | gaatttatta | 8700 |
| ttatttaaaa | tataacttaa | aggtaaacag | cacttcacat | tgtgctggaa | atatttccta | 8760 |
| tattgggaaa | taagtgaag | tgttaccaag | agaaacttag | taaatgctag | aaataatctg | 8820 |
| cattgtcctt | gaaaaattcc | tcctttatag | tgaacatact | ccaagctttt | ttaagtgaag | 8880 |
| tgtacagtat | aatcatctaa | ttacacaatc | acccttcttt | tttcatataa | gtgttgatc | 8940 |
| agatactcct | ctttttaga | gcaaaaagta | ctatcactgt | tatagttttc | ttaagcatta | 9000 |
| ttttactaac | tcttagatga | ttgaacttaa | aatgtaaata | acagtttata | ctgtagggtt | 9060 |
| ttataaagt | aaaaactcca | caagggttaa | gaataaaatc | ctttagttaa | aaggaattat | 9120 |
| aagttattta | ggtctttctt | cgtaattgta | ataaagattt | agacacatgc | ctctttgctt | 9180 |
| gttgattatt | cttaattatt | tgatggcctt | gattatgaca | cagtaataca | tgtagaattc | 9240 |
| tttaattcat | ccaattggtc | ctgagattta | ctacacaaag | gttagtagta | aatgctgcac | 9300 |

sequenece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ctgtctgcta | cactggaaaa | tatagtgttt | tattttttatt | ccttgtgttg | ctaactccat | 9360 |
| ccagaaacaa | taaatatttc | aaataactta | ggtgatgaaa | taaaaacata | cacatatata | 9420 |
| cacatattcc | agacatgttc | tcaaaagtaa | aattttaaatg | caatatgtaa | aagttatgcc | 9480 |
| tatctgtttc | tacagttgga | gaggattgaa | attataatftt | tcatataact | agtaaaggca | 9540 |
| atcagacctt | ttctctgaat | atftttaaca | ttgtgcatgt | aaaatttatg | cctaatttga | 9600 |
| atacttatta | gctgcctaata | ctcagaaaag | agtatttagct | ttgtttttttt | cttataaaat | 9660 |
| ccatcactat | gtatcagttt | taattttatat | gatttttttct | ttgttaatgt | tcaataagat | 9720 |
| gtttagcaaa | acctattttgt | ttataaacac | atfttcgctca | aaaattgttt | actatagtta | 9780 |
| cagcaattat | ttccttttctg | ctcatgtttt | ctgttgtttt | tttattatcc | aaacagcttt | 9840 |
| aagttgtata | tgtaattttt | gttacactaa | cttgctttgc | tagtccagct | attgacgttt | 9900 |
| tttactaaat | cagtatgtct | tttttttttaa | tggacttgat | aagagtagga | aaagtaattt | 9960 |
| aataatttag | gctttgatga | aaatatctgt | taaaactatg | atactataaaa | cattaatttt | 10020 |
| aacaatttta | atattggcat | tcaaaaatgt | cttttgggta | tgtctgtgat | tctttttgta | 10080 |
| tttagtgttt | gtgtgcatcg | catttttaaaa | gataactggg | gaaaacattt | tctccatgac | 10140 |
| aggaagagat | aggaagcttg | catttgcttt | ataataaatg | cctttcaaaa | ttttaaatgg | 10200 |
| acaaagcatt | aaaatatgat | caagtttaaa | atattgaaat | catgtaaaaa | acaaattaga | 10260 |
| ttgagtgata | agtttactgt | ccttttaggg | aagtccactg | tctgggtatta | ctgttaaagt | 10320 |
| cacagcacag | ccaggttggt | tctgcaattc | tgtccataga | agtaaaacag | agaagtgcata | 10380 |
| ccattagggt | atggcacagg | attcagaggt | ctttgagagc | caaaaatgat | ctttctaaac | 10440 |
| cacagattca | ggatgtactg | tgaaattctg | gtttgtaaga | gcacattgg | tctttatttta | 10500 |
| ctgcaaggat | ttccactgat | cttggcagga | catctcattg | ctatcctgaa | agtacagtat | 10560 |
| atfttatgcag | tgaaaatgat | aaaacatttta | ttactgtaga | gaaggtaata | tgcataattt | 10620 |
| atgctgtttt | tagcacaatc | attagtgata | ttcttgatag | atftttatttc | cagctttcat | 10680 |
| atcttataca | tgcttgga | attaatttta | tatctttcat | ttatttgcct | atgttaaaat | 10740 |
| tgagttttaa | gtcatcttca | agtgaacagt | ttgattgctg | ctcatgcata | agcttaatta | 10800 |
| cttcccagga | aggacagtat | taaatgtttt | aaatgtcaga | aaaataaatg | aatatgagct | 10860 |
| gtttgattaa | aaaaataggc | aatatctgac | gtgtttgcag | caggagcttt | ttcttaaaat | 10920 |
| gcctccaagg | caaaatttta | tttagtcaca | aaaaaagaaa | cccattatac | tattttatcat | 10980 |
| tggttggtac | catatgattt | gtaacaccct | tacaaaattt | taattttgta | tgattagctg | 11040 |
| tgcatcatta | aacaacagcc | ttgcataaga | tgtgctgtaa | aattctgaca | gaatcaagat | 11100 |
| agtgaatatt | taaaataagg | ctgtatagtc | atccatgggt | gtcaaaggta | gataatagga | 11160 |
| aacagaacag | agtgtgcaat | catgccttca | tttaaactgg | ttttataggt | agattttaaa | 11220 |
| atgtgggtcat | tcataaatgc | tattgaccat | gctatatgca | tggtatgtta | ctttggctgt | 11280 |
| taaatgtaac | cgcacaaaaa | ttgcttatag | aaaccataat | ttcaatgatt | agcatctgga | 11340 |
| tgaaagctga | atfttgattg | ctttccttgg | taaatgacta | ttcaaggctt | ttttcttccc | 11400 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-------|
| cctcttctaa | agatgctgtc | tctgtaattg | gcagagaggg | acatcttgat | aatggaagtg | 11460 |
| tgaagggtga | acgtgtgtta | attgatactt | cttaatcact | tttaggtatt | aagtcattgat | 11520 |
| gcaggaaatct | gcgacagaga | caataagcaa | cagttcaatg | aatcaaaaatg | gaatgagcac | 11580 |
| tctaagcagc | caattagatg | ctggcagcag | agatggaaga | tcaagtgggtg | acaccagctc | 11640 |
| tgaagtaagc | acagtagaac | tgctgcatct | gcaacaacag | caggtaagtt | ttgttttcct | 11700 |
| cagtgcctcc | ttaaaacaaa | taagcttggt | ttattgaata | tgaaaaatgt | attcatagca | 11760 |
| aactgagcat | gttgtgttaa | gctaaaagat | gctgagaatt | tattattatt | tggaacatga | 11820 |
| ttgaaggatg | agtaaagaga | taagattttc | atattagtta | cgtcatacca | gtaccagagt | 11880 |
| acccttcagg | tgtcaggata | ttaattaagc | tcacaggatg | atTTTTggaa | ggtctgtaaa | 11940 |
| gctttgtaac | aaatatTTTt | tagcttctag | tttactatct | tacattgtgc | tgcalaacgt | 12000 |
| gatacttagt | tttccaccag | agggccacat | tacttgatac | ttgcttatac | aatgaatttc | 12060 |
| ttcaagtctg | agctaagggtg | aaaaggacca | caaggacttt | tcaaaagaca | gatgcttgcc | 12120 |
| tgcgtttagct | gcaaatatta | gctattaatt | agttgaaatc | tgctgagaga | ttgtaaatca | 12180 |
| tgtaaacact | acgatctggt | gcttttcttg | aaattcattc | caagatatTTt | tgaatataca | 12240 |
| tctttcaata | acattaaaga | gcactTTTTg | tgttctccta | agtgtctcat | aaaatgcaat | 12300 |
| attctcttta | aatctggaaa | tgtaacaac | tacaaaataa | aggtacactt | ttaagtagtc | 12360 |
| tgttattcat | tttataagag | attactTTTT | cctgattttg | taaaaaaaaa | aaaaaattct | 12420 |
| tttcaaccaa | aaaatagcca | cttcattctt | cactgactca | agtctgtaga | aacagtgaca | 12480 |
| gagaaaagaa | agctttgaaa | gcatatactt | atattaggcc | agaatgagta | cacttgTTTTg | 12540 |
| aaaagtttat | atttgTTTTa | aaataaatat | tatttctttg | taactctgaa | ttgcacttaa | 12600 |
| actaaatgcc | taaaaatcat | taaaattaca | tccattaaaa | taatgattat | tgaaaagatt | 12660 |
| gcaaattatg | tgaaataatt | cacattttta | ggtagtatat | aatgagaaaa | atacatctca | 12720 |
| aaagttaaag | caaatgcccc | cactagagta | aaatttaata | gatacattat | tttaaacaat | 12780 |
| aacagcatta | aaaaagttac | atgggttgaa | taatgtctta | acctttaggc | attgTTTTca | 12840 |
| agaataatct | tttataagag | ctacatagta | cttttgaatg | gtttatctat | tatttttaca | 12900 |
| ttttcatttt | ttcacagac | aataagtatt | agaaaaacaa | tttatatttt | gttttaacaa | 12960 |
| tcataggaat | tatatgccta | ccacagtccc | aggattagct | tattttactg | gttactttta | 13020 |
| taaatacagt | ttttcaggat | agcccttttc | tgcttttggt | gtattcgcag | gaaatatcac | 13080 |
| accagtggaa | tgctacaata | ttcctcctaa | tttccctaag | tgagagtcct | aagtattttt | 13140 |
| agccagattc | aattttgcct | gcaaatccag | tggtttgcgt | ttataaagcc | aagtaaaaat | 13200 |
| agtaattgta | aatgaacatc | gcagttgagt | atcagtagat | gataggttat | gaaaaaatgc | 13260 |
| caagaaatct | ttctttattt | tcatagctcc | aattggatgt | taaataaaca | gaaaatgagt | 13320 |
| aaaatcatag | ctatagattt | tagtactctg | gaggcatttt | gattaggtct | ataaggtgtg | 13380 |
| tttataacct | gagtttgaag | tttactttgt | tctatgcagt | tcattatgta | aaccataaac | 13440 |

sequenece listing.TXT

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-------|
| aagagtaa | acaaaagt | tgcccttc | atgactga | aacttcag | atgtattg | 13500 |
| tgtctgta | gtgccttc | aaagtgat | aacacaat | gtatggtg | tgccacata | 13560 |
| gctacttt | gaagtgtc | cagaaata | tgtaataa | taataaata | acatgcaaaa | 13620 |
| acctttgt | atatccct | ccttggtt | gttttaac | tattaata | gttaggtacc | 13680 |
| taaggttac | gaatTTTT | ttctttcat | aatgtatTT | agaatgggg | tttaagttca | 13740 |
| ttaaggatta | acatatct | tctataaaa | tgatgcag | attgccttt | attctaaca | 13800 |
| tcgctatatt | tcaaaaact | aaaccataa | gcataTTT | taaaacaa | ttcacaagaa | 13860 |
| gtgaaaaagt | gaaataatt | tataaaTT | tctctacgt | ttgttattt | gatgtaaagt | 13920 |
| tttacacaaa | gagttaaatt | acttcttata | attataat | gctaatac | gttgaccaag | 13980 |
| atcttttgt | tagaaatat | atttaagagg | cagtgatg | aacaaagta | aattttgtt | 14040 |
| gccgtgaact | tctggcaaaa | atggtctgt | ttgggaac | aatatttgc | ttaatTTTT | 14100 |
| tggcttttgt | actttataga | ggtgagtag | ttgacttaa | ttagccatg | atttagcatg | 14160 |
| aagagttggt | gtttggaat | aatcgcatc | aatactta | gatacgtga | taggtgaagt | 14220 |
| gaaaaaggat | tgataaact | taactagcat | ttatttctac | catttaatta | atgaatattg | 14280 |
| gaatatttct | gaaagctagg | atatcttta | attttaaa | ttgtgatata | atggtagcca | 14340 |
| catctctgt | agtatgctc | gctatctt | atttactga | caattagtt | aaaaaaaaagc | 14400 |
| cttttctgga | tgaatttctc | tctccttc | tcctttctaa | tcttcaaaaa | ttagtactaa | 14460 |
| gtagtagaat | gtataatata | tgacgtagc | atatttcaga | tgttgtttta | gattaactac | 14520 |
| attgagaaat | tattctgcat | tagatgtaga | attttattt | gatattaggt | ttgcagaatt | 14580 |
| aattgtttgt | gtcactaagg | tcaaaatagt | tgctaaaact | tgattgcttt | acaggggtgga | 14640 |
| tttgagcttg | cattttgagc | attcattaag | tcagataatc | tttctgaatg | ttttatgaga | 14700 |
| ctgtactgct | ttgaagggtg | ttcaggtgat | ggtgttttaa | aacatctggt | tagtagtttc | 14760 |
| ttactgtcag | ttcatttatc | cttattcatg | taaaacagag | tatttgaaata | accattttaa | 14820 |
| agctagaatc | cacacatttt | attttcaa | tgaaattgag | aatagcgaca | tttgtgtctt | 14880 |
| aaaagcatat | gacattta | aaataacacc | attatctgta | ctttttataa | ttttattttg | 14940 |
| aaatctttta | ccctgata | ttgatcaagg | aagtgcacaa | tcttttgaaa | gactgtttat | 15000 |
| gtgtaaggaa | ataaatagcc | atgctaactc | cagcatttaa | gtccagctgg | tctcattcta | 15060 |
| tattttcatc | ttctgtttct | ctgtccttat | tgaagtttta | tgttgacata | tgagtaaata | 15120 |
| atagtttata | acagccacga | taacctctcc | tatacacatt | tttaaaatgc | ataatttatt | 15180 |
| tgcttcccc | ttaacttatt | ttaacttcct | atttgatacg | aaaagtaccg | acttttagatt | 15240 |
| aaattgttta | agcaaaagtt | ttaaataaat | ttacaaagta | taatgaaatt | acaaacgcac | 15300 |
| ttttcaaatg | aaataccaag | aatgaaaata | tgtatcaaaa | tattttcttt | tagaaattaa | 15360 |
| tatttaaagt | cttaccaagt | gcacacaaaa | gagaatatat | cttgaacaat | ttattctcat | 15420 |
| tgattgatta | taaattatta | aactgtcaca | taggcaagat | tttagacatt | gtttgactag | 15480 |
| atgatatgtc | agttattaca | tacatatTTc | agaaggcact | ggtaaatagt | ggcaagttta | 15540 |

sequece listing.TXT

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| caacgatata | ggaaaactta | acactcacat | cttcacacat | gaccttttat | cacactacaa | 15600 |
| tattaattga | tgatattttc | cttttttaca | accaaattcc | tgtctttggc | atattggatt | 15660 |
| tattgttcat | tgtactgttg | ttcagaaaat | tacaattcct | gtgaagctga | tctgtactat | 15720 |
| tttgaaccag | ctgtgaacat | gtgctcagtc | tttttgataa | cctagaaaga | atgtttctct | 15780 |
| gatgccaaata | tttaattttc | tcacataaac | ttatactcgc | ttaatctcaa | ttgacaagca | 15840 |
| tctacaaaaa | tactaggtgt | ttctaggtta | agcacacata | agatatttac | ttcaatactc | 15900 |
| atgtaaaaga | tccacaacaa | aatggtaata | agcatttatg | taatttgtct | catgaattgg | 15960 |
| gtatactctc | gtttctatta | acactttttt | catagaaatg | gattttttta | tttataaaaa | 16020 |
| aggatttaaa | tctattttact | atgcagtgtt | gtgtatctac | agtgcattct | taagttccat | 16080 |
| tcactatagg | tacaagtggg | agcatattca | ttgtgcctgt | cttgcataaa | agcattttact | 16140 |
| gaagaaatat | gacaagaaca | tggttcagcta | atgaggctga | atgggttgta | cattaaattt | 16200 |
| aggcgggtgt | ttctattagg | ttttatttat | ctgtatttgc | attcaatcct | ttcacatttg | 16260 |
| ttatctctcg | cccaattcca | gggatggggc | gccttttctc | atttcacagc | caattgttac | 16320 |
| tgtgcgctga | ctctgtaagt | tgctgggtga | tgtaaaagtg | actgcaatta | acctgacttt | 16380 |
| gttgcttgag | gagaatttga | gatgagaaat | ctgacagcaa | atgacaggca | tttttctggg | 16440 |
| tttagcacag | aagaaagtct | aagtaacatt | gcaaagagag | gcattaggga | gtaggtacct | 16500 |
| gcaaattaag | tggtctgacac | tgtctattga | gaatttagat | agtaacggct | ggaattttta | 16560 |
| tgtaagttc | acattatttt | atattcatag | caagcttcct | tttgagcatt | tcctttgtga | 16620 |
| ctgtgcatga | tctcatttat | tgtaatttgt | attttttggg | tgatcagaag | atggctgtaa | 16680 |
| ttgtaatttt | tattaaagca | cattcttaac | atgtaagaat | gcataatatt | agatgaaaac | 16740 |
| aattttattt | ttgagaatgg | attatgtgaa | cttagatttt | aatatgataa | cagcctaccc | 16800 |
| ctaattctca | gagatataat | gtgaaatggg | ggaaaacttt | gagcaataat | actcatggca | 16860 |
| ggtgagtatt | ttttttaaat | aatacagttc | aatatcagta | tacttatctt | gtcattttatt | 16920 |
| tctgttgaac | tgaaggaaag | aagtctgact | gtacagtcac | aattctgtct | tgcattaact | 16980 |
| ggctagctat | gcttttagca | atagttattt | ttactttcca | aagcctgttg | gttatgtagt | 17040 |
| ttgaattaca | atctttgcct | tcaaaagcac | actctataca | actacctcct | gctagtagat | 17100 |
| agtaccaca | cagtatgcaa | cattttattgt | atgtgtcagg | tgtttaagag | gccattggga | 17160 |
| gttttaatta | atgtcagtta | ggaagataca | ttgttcagtt | ggaagcagct | tgccaagtcc | 17220 |
| ttcattttcc | tataatccat | atagtctact | gtcttttaggg | aaatatgcaa | aattaaaagt | 17280 |
| tacactgcat | gctgttgtct | ttacaacatt | cagctcatca | agcaaaactc | tcatgcaaat | 17340 |
| tttaatttgc | ccttgagcat | aatttagaaa | ccataatcat | tgaggtttta | cacagcacag | 17400 |
| ataggaaaag | gagattggat | taattttacac | tctcttattc | aaatgacctc | attactttta | 17460 |
| tggtacaaac | taagggtttg | cagctgactg | tataggtaaa | gtactgttaa | gggttttaaaa | 17520 |
| agtaataatt | ttctagaatt | tatcttttaa | ttacattttt | taatatttgg | ttaaagacat | 17580 |

sequece listing.TXT

| | | | | | | |
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| ttctttggag | atctttaaat | atcctaaagt | ttatgtattg | atttagaaat | gggaaaatgt | 17640 |
| ggcatctatt | tacatttatc | aagtttaact | attaggtcct | ggggccttct | atttacttga | 17700 |
| aggatctttt | catgaattct | gtttcagagt | taacttttta | ctgttttcag | taatccctaa | 17760 |
| agaagtgtac | acttggcctg | acatatagag | ttgtcgtcta | ccacatgatg | acactaaaga | 17820 |
| tatatgatat | gactgacagt | gtagttgatg | tgcgttgtct | tccctagaca | aaacagatgg | 17880 |
| tattgttcta | ttatcatcca | cagttatfff | aatgtactgt | gtccatctgt | gttaagatat | 17940 |
| attacatggg | ttcatggaat | ttacagttca | ctcctgcagt | aactcgattt | cactgtttgg | 18000 |
| tctctagaga | gtttgcaaaa | tgtcaagctg | tagcttgaaa | aagaaaagtg | aaatctactg | 18060 |
| gaaactaata | cttatgacca | tttcatgcct | gatctgcttt | gtgggtgttg | ttagaagcta | 18120 |
| gggtgacgtt | tataatacaa | caggtaaaag | aaaagattgt | ttaatgcata | tgaaaaattg | 18180 |
| taactgctct | tattgagcat | ttgtgtccta | gtccatttaa | atccattcag | ttaataaaag | 18240 |
| tatatctggg | tcattgttaga | gactgaaatg | tttaccattg | tctgggtgtt | tattagttca | 18300 |
| gaaattaaaa | tgtgtctttt | aatttcatat | caaataaata | aaatctaaat | taaattcttt | 18360 |
| tacaaatact | tacctgcaa | aaatctaaca | cttgccatag | tcttttccaa | aggaatatff | 18420 |
| tttctcaaaa | ttagttgaaa | aaaaatattt | aggctgtttc | tccaaagttg | tatctcagaa | 18480 |
| atattgttaa | tattctgaat | atttccattt | ctcaaata | ccatcattta | aaatattgat | 18540 |
| tcacttctac | agatggccaa | atfffgtatt | agtttttatt | tatcgtagtc | ttggaaaatg | 18600 |
| ttatgaagat | gcaagtgtac | ttattctcta | ggtataagtg | tgcttataaa | tattctcatt | 18660 |
| gcaaaatttc | aactaaagta | gctaacatta | aaactactgt | caaaaataca | tatgtgcttt | 18720 |
| gactatggat | atatgtatat | atgagatcca | agtcagttat | ttgacaacta | aaagcaaata | 18780 |
| gatttcatag | tattaaaact | atttgattaa | aatttaagtg | atgattccta | gttaaaagac | 18840 |
| tggtttacat | gaatattagt | cattaattag | aaaatgattc | agaaaatagt | gatctggagc | 18900 |
| taaagcatat | gctactaatt | ttctaaattc | atctggcaaa | agaggagtta | atgtaaaaaa | 18960 |
| atataaagta | ataggcatga | tatggctgca | atatattgaa | aaaaaagtcc | ttggatcttt | 19020 |
| gtgttgaaat | ggctcataag | agaccacaaa | tatactcatg | ttattactca | actttgattc | 19080 |
| agggaaatgaa | ccattatcat | attcaggcag | ttgtattcct | tctctagttt | ctctttattc | 19140 |
| actctcaaca | cttcaatgtt | atctagtaga | tgtacttgct | aaataattgt | ttttgaatag | 19200 |
| ctttccagga | aatcaaaatt | tagctgattg | tcattttgag | ttcaaaatac | taaaagaaaa | 19260 |
| tgtgttgctt | tataaagaaa | aataaataaa | gaggtgaata | attgagatta | gtgagaaatc | 19320 |
| cttatttttg | ttctagttaa | cataatgcct | aactcctaaa | tttagattgt | tttttgggct | 19380 |
| ctcattttca | atagtccatt | cataatttta | gtatatttct | gacctcacgg | tttaatatat | 19440 |
| atgggggggg | gggataaggt | acagcaattt | ggttgatgta | ttatatgtat | aaataattaa | 19500 |
| tagtaaattt | aatattttta | aagaaaaaca | catggagaaa | caaggaatag | atatataaat | 19560 |
| acaattattg | aaagaacttt | gagggtagga | gtagtaaaga | aaatttacgc | taaaaatctg | 19620 |
| accaaatact | gttgtttttc | taattctcct | tttcttatag | tcgagcagcc | tgtttcgtta | 19680 |

sequece listing.TXT

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-------|
| agaaaaaaat | taggaggtat | aaaacagctt | ttcagtaaaa | agctgtattc | aactgggtact | 19740 |
| gtcaaattaa | tactttccat | aaatatatat | tttctgtatt | acatgtttta | ttaaaatttc | 19800 |
| ctggaatgtt | tttctgatgt | atgtgcataa | tccttgga | tttaattgta | ttttattgat | 19860 |
| gataaaatac | aaaggccatt | ctttccaatt | aacatataca | ttttaagaaa | aatctttcgt | 19920 |
| ctgtctctta | aaatttcaca | tggctcatgg | agaacccaac | catcctcctt | gttatagcat | 19980 |
| atcccaaaat | gtcccacctt | attgcaaaac | tctgtcfaat | aactgaatca | gctctctcat | 20040 |
| aatgcttcca | taacggaagt | tgccttaact | tcaattgtga | atgtggaatt | tggaatttca | 20100 |
| tatctgctta | ttcattaggt | tcaacaacta | taaaccaatc | acttttcact | atgattgaaa | 20160 |
| ataaatgggt | gttgaaagca | tttccccagc | cttcagtaca | gaagatagtc | atgccatgat | 20220 |
| agaggtagat | gtgctttgag | gccttgaaga | ggaggggacag | actcagtcta | aattgtcaag | 20280 |
| aaaggtttta | ggaagggcat | tttaattgtt | catgaagaga | gaggatcaat | cggcagaaaa | 20340 |
| agggtagaaa | gaattctagg | tagaaggaaa | agggtacaca | aagacaggaa | ggtgtaaaaa | 20400 |
| gtgcagaata | ttgaggacca | ttcagtgttt | ggatgcactt | catacaaaga | ctattgggag | 20460 |
| agtaactggg | agatgagggt | ggaataggta | ggctagatat | agatcctgga | ggatcttggt | 20520 |
| tgttggtgct | agaagttagt | ttgttggttg | tttggtttga | gatggagtat | tgctcttggt | 20580 |
| gcccaggttg | gagtgcaatg | gcgtgatctt | ggctcactgc | aacctctgcc | tcccagggttc | 20640 |
| aagagatcct | cctgcctcag | cctcccgaat | ggctgggatt | acaggcacgt | accaccatac | 20700 |
| ccggctaatt | ttttgtatct | ttagtagaga | cgggggtttca | ccatggtggc | caggcttgct | 20760 |
| tcgagctcct | gacctcaggt | gattcgccca | ccttggcctc | ccaaagtctc | gggattacag | 20820 |
| gcgtgagcca | ttgtgcccgg | ctgtcagaag | ttttgacttt | cattctgcag | gtgttagata | 20880 |
| gccgttaaag | atTTTTTTT | gtggaaaatg | atggcagatt | tatatTTTT | aaatacaaat | 20940 |
| ttaccatagt | ttggcctagg | tagaggctgt | gaagaaaaag | aaaaggagaa | attaattcaa | 21000 |
| ggtgcaaact | caataatacg | tgtatttcat | gtactgtgaa | gcattgggaa | aaatttaaaa | 21060 |
| aagcaaggct | tgggttttga | aagggtgatta | aaagaatcaa | acttcttgag | ttcaatacta | 21120 |
| attattggct | atgtagtctt | gggcaaatac | ctgaaccag | gattcatttt | ctttatgaat | 21180 |
| tggaggtaaa | aataattaat | ataattatta | atttatTTT | tttcttgacc | acccctctta | 21240 |
| ctgctatcac | tcttctctt | ttgtatccct | gagagtaaca | tttatatctc | ctttgaagca | 21300 |
| tctgtcacag | ttacaatttc | atatttatgt | atgtgattat | ttcatgtgta | ttccctgcta | 21360 |
| gattggtgtc | tattccccgc | tagacagtaa | gttttatgag | ggcaagggcc | atatcagttt | 21420 |
| ttgctcagta | ttttatttgc | tgtctagcaa | agtgccataa | taaaaataat | taatgttaatt | 21480 |
| atTTtaggag | taaaattatt | gatataaaat | tcttagcaaa | tttattaatt | tactaaataa | 21540 |
| gtattttatt | aatactact | gtgtattagg | cactttgcta | gacagcaaat | aaaataccga | 21600 |
| gcaaaaactg | acatggccct | tgccttcata | aaacttaact | gtctagcagg | aaatggacac | 21660 |
| caatctagca | gggaatagac | agcaaataat | cacatacata | aatatgaaat | tgtaactgtg | 21720 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| acagatgctt | caaaggatat | ataaacgtta | ctttgagaga | tacaacagag | gaagagtgat | 21780 |
| ggtagtagag | ggggtggtca | aaaaaggctg | gaggatttga | agaatgagta | gaagtttagct | 21840 |
| agatcaaagt | aaaagtagag | agggcatttc | cttactctgg | cttataataa | acatatacct | 21900 |
| aaatggtacc | agataatgag | aaaatacaca | ttaattattd | cgatttagctt | agtttgtaat | 21960 |
| tttattttct | atatcttttt | atggtagttt | ctacaaatga | tcctcatatt | tagactgata | 22020 |
| attagaagaa | atagttttat | gaaaacttat | tcattcttta | tttacattgc | agtgttgtat | 22080 |
| gatcagcctt | caattttatt | acctttttta | tttagcattt | gtctctcatg | tgattttttac | 22140 |
| tgtttggtga | ctgaggtatt | ttattgtggt | tgatttttag | tattttattga | catatgccac | 22200 |
| attgtcagtg | gaagtgtatt | acgtgtgatt | taagtgtttc | tttattttca | tgcacctttt | 22260 |
| ccaaatcttg | tgttcttatg | aatgctaaa | tatggcacta | aatataacct | ttgtagtttg | 22320 |
| taagaatctt | tgttttattd | aggcagcagg | tgtttcccaa | agtcttccaa | gtgtacatgg | 22380 |
| agcagcgcct | tagatgatcg | ttacctcttt | ttagtagttt | gctattatca | tggaaatatt | 22440 |
| acttttttcc | tttattaaga | aaccacattt | gcaataaccg | attgcagtac | ttccgtgaag | 22500 |
| tctttctacc | aggcatctta | tgtaatatgg | agataagaat | aaaccctgtt | tcacaagact | 22560 |
| attgtgagga | gtaagtgaac | attaatagat | tagtagagtg | ttacacatgt | aagtgttcaa | 22620 |
| taaaattaac | tgtaagaatt | attactattd | ttactaataa | taaaaggctt | tttcctcata | 22680 |
| tggtttttta | tagtcaaata | tgtaagtatc | ccaaccaaac | tggctgaagg | aagagagagt | 22740 |
| acccttacca | tctcatttca | tgtccttgta | gaccgacctg | tagagcacct | gcacaggcct | 22800 |
| gctctgggtg | aatcttcact | acagactcag | tctgtaggtc | tgctcagttc | tgctcagttc | 22860 |
| agttcagttc | agttcatggt | tattaaacac | atgaacgtga | ctattctgaa | ttgagacgtg | 22920 |
| ctttaagtgt | aaaatacaca | ctggattatg | aagacttagt | acaaaaggga | gaatgtaaaa | 22980 |
| tatttcaata | aataatgttd | ataactgatt | acattaaagt | gatattctgg | aatatatattg | 23040 |
| gttaaataaa | atatattatt | tgaaccattt | tcacctgttd | ttattttttt | taatttgtct | 23100 |
| attacaacat | tagaaattaa | ctacatggat | cacattttat | ttctgctgga | aatgattagt | 23160 |
| ctacaatcta | gaagtcctgt | gagtttaggt | tgaggcattg | tagcttcatt | tggacctaga | 23220 |
| ttagctatct | ttttctagtt | atgtttggtt | ctgccttaaa | ttttataaac | aatccaacca | 23280 |
| agtctcagaa | atagacccca | attcaagtgt | tttgtttaatt | cttctgtttc | gcagggtcccc | 23340 |
| tataaaaagag | aagggcctct | tggaaagcac | tgatacacat | cacccatcag | gtgcatgtta | 23400 |
| gcagggtgtca | taaattttta | agtgtgctat | tcatatgtct | gcttaattca | cagaagaaaa | 23460 |
| cccatatgcc | tatccttaaa | gtcatattat | cctatggaaa | tatttatata | tttaaaatat | 23520 |
| aaataaaaata | acaataaaaa | tatattcatt | ataacaacta | gttttgaaac | agagaaataa | 23580 |
| gaagtgaata | tatgtgtttc | gtagtcaag | ataacatcat | tatgtagaat | ttttccattt | 23640 |
| cataatttaa | ttcatttcaa | agagaaattd | gctgaagaat | aatttggaag | ttaaaaactg | 23700 |
| tgcacagaaa | aaaataaatg | tcttaaagtc | acagctagaa | taaaaaatga | atttacgtgt | 23760 |
| tggtttccat | agttaatcca | tattcctaatt | gcccttctat | tttgatttca | gatgcccaat | 23820 |

sequece listing.TXT

| | | | | | | |
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| ataaaatata | atacttaacc | tcaaacaaac | ccattgtagc | ctagtcagtt | gctacccaat | 23880 |
| gactgccaga | gtattagagt | gacaaatata | gcttgatttt | aaaacacaga | agtagatggt | 23940 |
| aatgtgatct | gagaagacat | tgttagattt | ttgtttttta | agttaaaata | gttgaagaag | 24000 |
| tctaattgat | gtgaatgtgt | aatgatttca | gtaaattaat | aattttaaaa | agacaaagta | 24060 |
| ccttggtata | aattaattta | gtttattact | tatgtgtgag | gtcatataaa | ttggagatcc | 24120 |
| atttctttgt | catatattaa | atttttctca | ttccaagatg | accttgata | aggaaatttg | 24180 |
| tttctctgga | cctctgtttt | caaagttagt | ggctggattt | gaaaatcctt | cccaacttca | 24240 |
| aaattctaaa | attttattat | tctattatgt | cggatatgga | ttttagtag | tatttcagtc | 24300 |
| ttattttatg | aactttggca | tgtaacata | accttcctga | gcctctccgg | tttgtatctg | 24360 |
| tagagcagct | aaagctttat | atatttttgt | aattgggggt | gcataagaat | aatcttcaaa | 24420 |
| ttcagacatc | tctagttgat | taatcattac | ttcagatttt | tttgaggaaa | aatactctaa | 24480 |
| tgatgtaatc | aaatataaac | gtggtattat | agcaacaata | aacagcattg | tgtaagtgt | 24540 |
| aaattatctt | atttatttat | ttatttattt | attttatttt | tttgaccag | gctggatgga | 24600 |
| gtgcagtggc | gtgatcttag | ctcactgcta | cctccacctc | cgggctaaag | ccatcatcgc | 24660 |
| agattagcct | cctgagtagc | taggactaca | ggtgtgcacc | accacgccta | gctcctaatt | 24720 |
| ttttttgtgt | gtatatagat | gtgtgtgtgt | gtgtgtatgt | ggagacaggg | ttttggcatg | 24780 |
| ttgcccagac | tggtcttgaa | ctcctgagct | caagagatct | gcccgccttg | acctccacaa | 24840 |
| gtgctgctgt | tacagacata | aaccaccaca | cctggcctac | attatcttaa | aatattattt | 24900 |
| tgtaatagga | gctttatagt | ttatctttga | caggaaatgc | ccagtaaaga | tggttgctta | 24960 |
| cataatagat | cctctcacct | cccaaatac | cagcatttgt | agaaacctat | cttcgagtaa | 25020 |
| ttctaataac | aaaaactcat | tcatatgact | tttaacagtt | atggaataat | tttaatacat | 25080 |
| taatataatg | gttaggacag | caactgtgag | taggcagctc | ttattatgat | ccccatttta | 25140 |
| tagattatag | tattgagact | caaagattaa | accatctgtt | caaagtcaca | tagctagtaa | 25200 |
| gacagactca | agcttctgac | actaaatcct | ataccctttt | aaagacagta | catttccatc | 25260 |
| atattgtttc | ataggcaaag | ttcatagtta | cttaaataat | taaaacatgt | aattatttct | 25320 |
| gatgaatata | gtcaataaaa | ttccactgct | ataattcaaa | tatatcccc | tttttgggct | 25380 |
| actataatgt | atgagtgaag | acttcagatc | tcattcatgt | agccagtcac | ttcacttatt | 25440 |
| tctatttttc | acctcatatt | atggaaatga | cttgttcctg | aagtcgttat | attatcacta | 25500 |
| atttatttga | aagccttaaa | gttattggca | tatagtgtta | gatattttgt | atgatggagt | 25560 |
| gtgttctgag | atcagaaaat | gaccctcttc | aataaaacta | attcagaaat | atccatagaa | 25620 |
| caatctaaat | tgttatattt | atttaaattt | gatttttctt | catgtgactt | aagtaatcca | 25680 |
| ttggctgaaa | tttggtagta | tttagttcag | aaaactctgc | ttataaaatt | tagtaacttt | 25740 |
| gccatataat | atccatggct | attctacaga | gactaagctt | gacccactg | tacatcagta | 25800 |
| ctacttgtga | taacaaataa | caataacaat | cacaatgata | atttatcaaa | attacctgtt | 25860 |

sequece listing.TXT

| | | | | | | |
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| gtcagaagtg | agcaggaata | gaaccaaaaa | aagaagagaa | ggaaaagaaa | agaaacatgg | 25920 |
| aatggatgaa | gaaatttcta | ttttgatcca | taataatctt | agaaattctt | agaaaatgta | 25980 |
| acctttgcta | ttgaaatatg | gcacagcaag | atgcacaggc | ttgggcagat | tactgcctaa | 26040 |
| aaatatcata | tataatttta | ttgactctaa | ctccaataaa | tgtcctgttt | tttatccatg | 26100 |
| tgtacataag | taataaaaact | agtcactgta | atggttacaa | tgatgatcaa | ataaaaaatc | 26160 |
| ggaatgttcg | gctgggtgtg | gtggctcaca | gctgtaatcc | cagcactttg | ggaggctgag | 26220 |
| gcgggtggat | cacctgagat | caagagttca | agaccagcct | ggccaacatg | gtgaaacctc | 26280 |
| gtctctacta | aaaatacaaa | aaaaaattag | ctgggcctgg | tggtgcatgc | ctgtagtccc | 26340 |
| agctacttgg | ggaggctgag | gcagcagaat | cgcttgaaca | caagaggcgg | aggttgcaat | 26400 |
| aagccaagat | cacatcactg | cactgcagcc | tgggtgacag | agggagactc | catctcaaaa | 26460 |
| aaaaaaattg | gagtggaatg | tccactcatt | tcttagttca | caaatcgtca | atgattttta | 26520 |
| ataaataatc | acagctttta | atacaatagc | agccttcagt | ttattcattt | tatattcagc | 26580 |
| tccttggaaat | atattctatt | caaataagca | atttctctaa | aatttgtgat | aatacagaat | 26640 |
| tatataaaga | gcacttacaa | ctcactattg | agacaacca | attttaaata | agccaagtat | 26700 |
| ttgaatggat | attttaccaa | agaagatata | tgaatgggca | agaggcatgt | aaatgaaaaa | 26760 |
| ctgttccact | tcattagtca | ttagggacat | gtaaattaat | accacactga | gatactactt | 26820 |
| tatacttaca | agaatagcta | cagtaaaaaa | agacaggcaa | taacaagtgt | tgacaagaac | 26880 |
| atggagaaac | aggaactctc | attagtttta | gtgggatgta | aaatggtgca | accactttag | 26940 |
| aaaatagttt | ggctgtatct | taacaattaa | gcctccacta | tgttactcag | taattataat | 27000 |
| cctatgtatc | tatgcaagag | gaatggaaac | acttattttac | atatattttat | aaaggatata | 27060 |
| tagcagcatt | acttataata | gcaaaaaact | ggaaatacca | caaattgtaca | ttaattgggtg | 27120 |
| aacagggtatt | acaaaacaaa | tattattcag | gaataaaaag | gaatgaagca | ctgatatatg | 27180 |
| ccacaatata | catgaacttt | aaaaacattt | tgctaagtga | gccagccag | atattttata | 27240 |
| attctatttg | tatgaagctt | tcagaaaagg | caaactgatg | taaacagaaa | gattagtgggt | 27300 |
| tacctggggc | cggaggtaag | aaggagcagt | atctgcaaac | gggcaagagg | gatttttttt | 27360 |
| tttttttgag | tgatggaaaa | tgttctaaaa | ttggactgca | gtaatgattg | cacaactctg | 27420 |
| taaattttact | taaaacactg | aattgtacat | tgaaaatggg | tgaattctgt | ttttaagaca | 27480 |
| gggagagtct | cactcctgtt | gccagggctg | gagatcagag | gtgcaatcat | agctcactgc | 27540 |
| agcctcaatt | tcctgggctc | aggtgattct | cccacctcag | cctcctgagt | agctgggact | 27600 |
| acaggcacat | gccatcatgc | ctggctatca | tatttttagt | agagatgggg | tttcaccgtg | 27660 |
| ttgctgaggt | tggcctcaaa | ctcctgggct | caagtgatcc | acctgtctgg | acctctggac | 27720 |
| ctcccagatt | gttgtgatta | cagacgtcag | cagccatgtc | cagccaaagc | gggtgaattt | 27780 |
| tatgggtatgt | aagttgtacc | tcaatacagc | tgtttatata | aagagagaga | ggccaaaaaa | 27840 |
| atggtgacat | aattccattg | tattttttta | tgtcatccag | atcaaagata | gaattgacac | 27900 |
| ttctttgcat | gcagcaagtg | gcaatctatg | tgagtgaagt | aaaacagagt | aagaggaaac | 27960 |

sequece listing.TXT

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| tccaattcca | agtgtaaagg | attattccaa | gtaagaatat | cagaagagca | aagaactgcc | 28020 |
| tttatggtag | tcctttggct | tcaaccaca | gttcataccc | acatccttat | ggtaggtcag | 28080 |
| atgatgaaat | gcacattgtg | tgatcattaa | aggacatatg | ctctcctgtg | ccctgaaact | 28140 |
| tttcaaaatg | ttttcaaata | aatcaggcat | tttatgtgca | aacactcagt | atataacata | 28200 |
| tgtactgtct | ctacaatatt | taaagataac | tcttacagat | ctgtactaat | aaaatagtaa | 28260 |
| agaataaaat | taattttgtc | tcacgttatg | cattctttta | ttttaaaaaa | gaatacaaaa | 28320 |
| aaggcacatg | cgattttatt | tattagtcct | gacatatctt | gactttgata | caaatatgca | 28380 |
| tctcttctca | cttgtagtga | caatcacttc | cttttctgaa | cagttttttt | ttaaagtttt | 28440 |
| attttaggtt | caggggtaca | tgtgcagggt | tgttatatgg | gtaaattgtg | tgtcacggcg | 28500 |
| ttttagtgtg | ccgattattt | catcacctgg | ctaataagca | tagtacccta | tagatagttt | 28560 |
| tttagttctc | agccttctcc | caccctctat | ctcaagtagg | cctgggtgtct | gttgttccca | 28620 |
| actttgtcca | tatgtactca | gtgttttagct | cccacttata | agtgagaaca | tgcagtattt | 28680 |
| ggtttcctgt | ttctctgtta | gtttacatac | gataatggcc | tccagttcca | cccattgttg | 28740 |
| tgacagaggac | atgatctcac | tctttttaag | gctgcatagt | atgccattgt | gtgtatgtac | 28800 |
| cacattttct | ttttccattt | tactgttgat | gggcatttag | gttgattcca | tgtctttgct | 28860 |
| attctgaatg | gtgctgagat | gaatatatgc | atgcatgttt | ctttatggca | gaatgattta | 28920 |
| tattcctctg | ggtatatacc | caataatggg | attgctggat | caaattggca | ttctatttta | 28980 |
| agttctttga | gaaattgccca | aactgctttc | cacaatggct | gaactaattt | acattgccac | 29040 |
| catacatttt | ttactcacgt | tttaaattcct | aagctagaat | gtaagatgtt | tgaggccaat | 29100 |
| gctaaaacat | atgtcatctg | cctttgtatc | ctcaaaagaa | cctagtgtca | ctataaatgc | 29160 |
| aagtgattag | tgatcactgt | atgtataata | gatgccgaat | tatgtcaaata | aaacatgaga | 29220 |
| agttatctgt | gccttactct | tgactctcgg | tttccacagt | cctttttgaa | atctcaccaa | 29280 |
| gacacagaca | aaggctgaaa | aacataggac | acttaatctg | catgtggatt | ttaagggctg | 29340 |
| gctgaacatg | gaatgacatt | cagaagtact | gtgtcaagtt | gagcttctca | agttcttgaa | 29400 |
| atcaccacaa | gtgatttcca | caaccacaag | tgtgggtggt | atttttatag | cacttggttg | 29460 |
| taaagcctca | ctcttagttt | tctgctaagc | catgttagta | atacttcgtc | ctcaagattg | 29520 |
| gacttatcct | ttctttctca | ctagtacagc | tttattaatt | ggtatatgaa | ttgttttcca | 29580 |
| aaagaattac | tgtttttatg | ccattgtgca | agtactgact | tctctatgat | gcattaaatt | 29640 |
| atactaacag | catgtataag | tcctagactg | agaacaagga | ctcaaaaata | tttatataat | 29700 |
| gtttatttta | agattgatga | ctgtatat | caaattctgt | ataacagttt | taaaatcagg | 29760 |
| aaaatagata | tttaattaat | ttgttctata | tagttaatat | gtactgcatg | attacagtta | 29820 |
| acattttaaa | agttcaaaga | acaaagaatg | ggaaaactct | taatagtggg | tatgtctggg | 29880 |
| taaccaagct | aggggtaact | ttttcttggt | ctacatTTTT | tagtttctac | agttatcatg | 29940 |
| cattctttat | tttgagaaa | attacacata | atttaaagaa | gaaaatagtg | tgttcctctg | 30000 |

sequenece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gaagcccaat | tagcacatgg | aaaataaagt | ttccattttt | ttagagccag | tggttttttt | 30060 |
| ttttctattc | aactattttg | actctttttac | cttgctcaaa | actgtaagaa | ttgctaaact | 30120 |
| tcataacctg | tacattttcta | tagctgctaa | aatcccacca | atggcatctt | tggggatcag | 30180 |
| atactatttta | tctgacactg | ctgtactttg | gattatctgt | gtacttggtta | actaaggcaa | 30240 |
| gcccttggtca | tttcttagaa | ctatttgaag | aactgaagaa | gcttattaag | aaaatgagtt | 30300 |
| tgtgcctttt | tattccctgt | aaataacaag | agatttgctg | taggtgtcaa | gccttaaaag | 30360 |
| tgttatggtg | accctttgct | aaacaagaca | taaattggcc | ctcaacagta | tgtaacttag | 30420 |
| gatcaactcc | aacttttaca | ttcattttcct | tttatgtctg | tttttagtgt | gttgtgtttc | 30480 |
| taagtgagtc | caaatttggg | ttttatttta | aatcaaagat | tgtagaataa | aaagctgagc | 30540 |
| agctgcaaag | ctgaaactgt | gcttcatatc | ctactttgtg | ggataccaac | tagttttcaa | 30600 |
| ctatgtacat | ggcttcttaa | aatgaaagaa | aaattgcaga | ttatgcagac | tggttagtaag | 30660 |
| tatcaaaatt | agccccattt | taataatgtg | aaaacaatat | acacagtttc | taattttaagc | 30720 |
| tttatttttat | acaagatcat | acaaaattat | aatattttaat | agtataatcc | tattcttcta | 30780 |
| catatgtatt | gatgtatata | gtaattctca | aatagtttta | gaaattacct | tcagataaca | 30840 |
| catctgattt | aattaagtgc | atgatactct | atcaagatgt | taaagaaggc | ttctcattct | 30900 |
| actttaatga | gcagtgggtc | cattcagttg | tagagaacta | tgtgtgtgac | aatgtaatat | 30960 |
| ccaatctggt | actgtaatta | gaaattcacc | ttcattctga | ctcatataat | atactgaatt | 31020 |
| aattagtctg | taatatgatt | aactagtttt | tttgcttttt | aatatttaaaa | agatatcata | 31080 |
| agtctgatat | tttttagagca | cttttaacat | catttttaaaa | tgtgtagatt | tttgtcataa | 31140 |
| gcatttttat | tcccatttct | tcagatgatg | tcaaagaagt | tttataggct | ttgataattt | 31200 |
| aattacaatt | ctaaagtccc | tgcaaagcaa | gttttaggaat | gtcgttatat | catcaagtta | 31260 |
| tttagtaaca | ttcatatttg | cctctgagtt | acttcttata | attatactac | cataattaat | 31320 |
| tatactatat | attttatcat | tcattcattc | atcaaacatt | tattgaggat | ctagtaagtt | 31380 |
| tctgacacta | ttcagaaaact | tatgtataga | gagtaaataa | aacagccaaa | attaatacct | 31440 |
| ccactcttgg | agctaataat | ctattaatat | aaaatatgtg | aaaatgagtc | ttgttaacac | 31500 |
| aatgggtaat | gtaaacagta | aaactgagat | catacttttt | taaaaagctg | atttatatat | 31560 |
| aatcattctt | tatatactct | ttaaatatac | caatattata | gctctaagag | aatttttaaaa | 31620 |
| cccacctccc | attaaaagat | atgccagtaa | acccatcaat | gcaaaataaa | aattgcatta | 31680 |
| acaacagtgt | tctaatttaa | taatttcata | tccccgcaa | tgtttttggt | ttatctctat | 31740 |
| ttctttcttt | cttttttttt | ttttttgaga | cagagtctca | ttctgtagct | caggctggag | 31800 |
| tgcatgcagt | ggggtgatct | cagctcactg | cagcctccac | ctcctggggt | caagtgattc | 31860 |
| tcttgtctca | gcctccaag | tagctgggat | tacaggcaca | tgccaacaca | cctggctaata | 31920 |
| ttttgttttt | tttagtagag | acagggtttc | accatgttgg | ccaggctgat | ctcgaactcc | 31980 |
| tggcctcaag | caatccactc | acttcggcct | cccaaagtgc | tggtgactaca | agcatgagcc | 32040 |
| atggcacctg | gcctcctatc | tttttaagtg | gcacttttagt | ctactccaca | aatgaagaaa | 32100 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gcaagctagg | attcttgtct | cctttcactc | cctcaatccc | catattcaat | ctattaccaa | 32160 |
| tcattttcaa | ttctacctcc | taaatatctt | ttgattttgc | tgcttcccac | tgtccgaatt | 32220 |
| gccgtcacca | gtttgacatc | tctctcttat | ctaataacat | caatagcctc | tcctgtctgg | 32280 |
| tttcccctct | atagccagat | gatctttatg | aaatccaaat | ttgggcatgt | catgtcccta | 32340 |
| tttttctggg | taagcaccca | gaagatactt | cgcacccttc | gatacttata | aaggccactg | 32400 |
| tgccntagca | ggcttataga | gtttcccatg | actggggcac | tcctaagcta | cctctcctgc | 32460 |
| ctcattttct | ccttatcttg | tcccattctc | ttgctgctgc | agccaaattg | aacctttttc | 32520 |
| tgcaattcca | gttagccaaa | ttctctcttt | ctctctttatc | tcccttagat | ctcctaacaa | 32580 |
| gctgttttct | tcctggatca | caagtacccc | acgctaacat | tttactccta | tctcccagct | 32640 |
| ccctaaccct | cactcttcat | acgtggaatt | cctattcata | ttttgaatct | gagatttaaa | 32700 |
| gtcatttcgg | ggagtctcta | tctacctacc | cccgacccat | acacaaatgc | atacccatct | 32760 |
| tgggtagatt | ccttttataa | cattcagaac | atgcaattat | ttgtttcaca | ttcattttact | 32820 |
| ctgggaagga | ccattttttc | aagttctatt | tcagagtttt | gaatatggta | gatgcagaat | 32880 |
| aaattttgtt | gaatgcaaat | gaatgaatgc | atctgagagc | tggaatgaaa | catttcagag | 32940 |
| tgattttctag | cagatgaaaa | aaaagtttaa | gatagggttaa | ccttcataaa | ttgttcctta | 33000 |
| aaaatgtatt | taatctgttc | actgtcactt | atagattgag | tataaaataa | attttaagtg | 33060 |
| gccaagtcca | ttgcaacgtc | catatagtat | gttttgaact | tggaggggga | aatgccttta | 33120 |
| aaaccatta | ttggtaattt | tatgatttgt | atttttagttg | taattgttgt | ggcatggtat | 33180 |
| aaatagctga | gaaacgcagt | ctctagcaaa | tggaatagtt | aagagtgtaa | agaaaatcaa | 33240 |
| aatttgattt | tttataataa | ctactgatat | taataaaatc | caaattggatt | tcttgcaaat | 33300 |
| ctggtaataa | aagatgggtt | ttgaagctta | gactttatat | ctcctttgat | tcatgagcta | 33360 |
| attttcaaag | ctgagttata | agcttttagtt | tatattgtac | ctggggcgca | ggcagactca | 33420 |
| tacaatagct | gtacttcaag | tgtcaccata | atatagtaaa | tgtaataaag | ttacatttaa | 33480 |
| ataatgtaag | aaatctaatt | taaacaggga | aaaatgaaat | ttaaagttaa | gttaatgcct | 33540 |
| ttttctattc | ctgatgttgt | cctttcctgc | tacaccata | gtggtgccgc | tagccttttc | 33600 |
| atgttaatat | ttggtagtac | agctatagag | aaatatacaa | ttacttagcc | attccacttt | 33660 |
| ctagataaga | aatggccatt | tgacaagcag | ctttacacac | agtgccatat | tcatagtttg | 33720 |
| tgagggtaaa | ctcggtat | aattagtacc | acaaaccttc | ctgccatttt | cttataattg | 33780 |
| caattttatt | ttttgagggtg | aatttagaaa | gttaaaagtt | ttattttata | gtacagtgat | 33840 |
| tagattgtta | aacttctttc | agaaacagag | caggataaaa | ttgtgtatgc | tgtgaaaaaa | 33900 |
| ctggaatgga | acatttttgg | tgaatattta | ctgaaatatt | agaaaactac | agggaaaata | 33960 |
| ttacaaattg | catatttttag | ccattatctg | caagcatttt | aatagtagta | gtatgctttc | 34020 |
| ttttcaactt | tgatgcccc | gtttcctcat | ctccaaaatg | taaataataa | tagtattgtc | 34080 |
| cccacagcat | tgttgtgaga | actaaatgag | ttataatgta | gaacaatgac | acatttagaa | 34140 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ctatatatat | gtgtttgcta | tcattattat | tttgttcaca | ttatttaaaa | aatatatattt | 34200 |
| aggaatttaa | atatatgtaa | gtaaagtttc | tttaagtaga | tagaggatct | aaaaatatca | 34260 |
| aggttaagta | tggcttatat | ttgtgcaagt | attgttttat | aaaaaaacta | aaatgtataa | 34320 |
| aatgttgtat | tcatatatatt | ttaaattgaa | aatacaaata | atgctttatt | tccataaatg | 34380 |
| ccaactttta | cttcacaatt | atattttaaat | gtaaataatc | agtgtaatgc | acacttgtac | 34440 |
| atatcccact | ctccctgccc | ccaaaacacg | gttcccatta | agaccgtttt | tttctgcaaa | 34500 |
| gtagatgagt | tttggtccta | aaagtactag | aaactgtatg | tatctgacag | atggatgggt | 34560 |
| cattctgtga | acctgagcca | ctgttcagcc | ttcatttatc | atcactaacc | tctctttgaa | 34620 |
| tagaatcttg | aatactcacc | agtattccag | catagaatgc | atagtttttag | tccttacttt | 34680 |
| gccaatgata | taagtaattc | acttcagcta | cctaggttta | attggttata | acctcaatcc | 34740 |
| gtataatttt | acctgtattc | aaaagtgtta | tatacctttg | aaattgctat | atgcatatct | 34800 |
| acctgtattc | cattaagtct | gaaataagta | aacctagatt | aacagaaatg | atttatgttg | 34860 |
| caaaaattta | ctttacaaat | gaatccatat | aaatgtcatt | attattctat | taagaaggcc | 34920 |
| ttcctattat | taaaaataca | gttcacttta | taatcataca | tatacatgac | atccagggtat | 34980 |
| gcatttatgt | actaaattgc | aaattaatat | aaaattaaat | atatgaaaaa | gtattctgcc | 35040 |
| tgattccaga | ttctagattt | ttagctaatt | gcagatgttc | agattttcca | ttaaattatt | 35100 |
| catttgcaaa | tatcagtaag | ttttgtaagc | aaacactagc | tttgaaactc | aatgccatta | 35160 |
| tgttgatatg | atttctgcag | gttttctgat | acacttaacc | aaaaacatat | gtccttcctc | 35220 |
| tatgcatact | tttattcaaa | acattaaaaat | gggcttggct | tactcagggg | aggtataaga | 35280 |
| tgctgatgt | ggaggatttg | ttcttttaggc | atatgaaaat | tgcatttgtg | ttggagacag | 35340 |
| gctaggaaaag | tgatgaactt | aatcaggcct | gccacattag | tatgacaagt | tttttggtatt | 35400 |
| ttaaaatgaa | taagaacaga | tcagaattca | aatatatagc | ttgagggaaa | ggtgtaaaat | 35460 |
| ttgttgaaat | atgagtatat | aatttcttct | atttctactc | aagcagcatt | gtggtattct | 35520 |
| ttagaaaattt | tttattaatc | tctaaaaatg | acagggtgtca | ggggtctttt | gtgatgcaca | 35580 |
| ttcagaaaag | tttcggtcaa | gaggtcatac | cgctgtgatg | tgttagtcag | tagccctgtc | 35640 |
| tcctgtggaa | tttgccttgt | ttgaagtgtt | tccaaagcaa | aatattttct | gtaatgcaca | 35700 |
| tcagttaaatt | aatgtgtttg | ggaacagctt | tacatggaat | aaaaggctat | gagatttctt | 35760 |
| tatgattaaa | aaaacaacca | ctgctccttt | taaatacaat | gaaacccttg | gaagtacata | 35820 |
| gagggatgca | tatttttaaa | agaacaaaat | attcaggaat | catattaaat | aattaaaatg | 35880 |
| tatattttatg | actttttgaa | cttaatgtct | ctgttcattg | aaaacacaag | ttggtttaaat | 35940 |
| tttttaaaga | tacacgtata | attttgatac | aaagatatatt | ttaaatgaga | aaagcttact | 36000 |
| cttaaaacaa | tgttatttct | taaaatgctt | tgaaataata | tctgataaaa | ggtttcagga | 36060 |
| tttgttttat | aatcatcaac | taatgttttt | tatagtgtac | atattgagag | taaataaaat | 36120 |
| tggaacacat | taataatcaa | aaattaccta | ttttcccagc | agaacctggg | aagcattttta | 36180 |
| atgcttggtc | tttcaagtga | taatgtgctg | tcaggggaaat | aacagactct | tgaaatggcc | 36240 |

sequece listing.TXT

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-------|
| tcttgacaca | tgtatatattt | catgaaattc | tagatctaga | aaggcggtag | gatagagagc | 36300 |
| aaatatattg | gtgttaaagt | gcacatat | cggtgtgaat | tttgctttaa | ccaatcatca | 36360 |
| gctgttgacc | ttgggctagt | aacttatctt | ctctaattcct | caaattattg | tttgatgaaa | 36420 |
| tgaggatcat | actgtctact | ccatgtggat | gggggaatta | aacaactata | aatgtctgat | 36480 |
| acttcctggg | gcacacacac | tcattaaatg | attatagttt | gttcttgtcc | ttatcagaaa | 36540 |
| gaaagtaagt | ccctccgtct | catccttcct | tcacttattc | attcatttta | cttggcctta | 36600 |
| gtatatggga | ctatatgaaa | atatagtgtc | tgcccgcctt | gagcttacia | ctcagtgtatg | 36660 |
| gagaaagtac | atcattttacc | tagcacagta | tttggcttat | ggtagctgtc | taatacataa | 36720 |
| aagtaaatag | taagtaatta | caagttgtaa | taagtgtctc | acagaaaaat | aataagatgt | 36780 |
| tatgagaaa | gactgcagag | agcaccagat | tgagaaagt | acaattaagc | taagatagaa | 36840 |
| ggatgattaa | gagctagcca | ggagcaaaat | tgtagaagg | ttgtatttga | gtgatgacag | 36900 |
| ctgttagatg | acaactaatt | ttttatgccg | aataatacat | tgaaatgtaa | ttgttagtat | 36960 |
| tctgttctcc | atatttctct | tctataagct | gaaattggaa | ttccttaaac | tttcttattt | 37020 |
| ttcttttcta | accccataga | tcagacacat | atttgtcttg | atatttggt | ttctctctat | 37080 |
| atattcaaaa | atcataggta | aattttagt | accatattct | catatttaca | tataggtcaa | 37140 |
| atcatttttc | tttcttcctg | gcagtgtgac | tttgtgat | gttcttactt | ttccattttt | 37200 |
| ccttaaagtc | gatattaaca | atatctcaat | tgaacttatt | ccttcagaca | ccaccctata | 37260 |
| aatctcttca | gattgtacagt | gagccactgg | ttcaagtaag | tgacacactg | gatttagccat | 37320 |
| gtgcaactta | aaaaaaaaatc | ttatttgtaa | tacaatcaga | taaagttgaa | tagaaggact | 37380 |
| taagcacttc | tgaatatatt | gtgtgttctg | actccaggac | atttgtaa | gctatttctg | 37440 |
| tcatagacaa | atgttatata | ggtgtgtctc | aaaaaatgca | tgagtacagc | tcatagatacc | 37500 |
| tttttagagg | tttgaaaatt | gattgattag | tgtgatgtat | tccagacttc | catataaaag | 37560 |
| ctaagctgac | tttcacattt | gcagtgggtg | ctctttaaga | tgatcagtta | aatcttagat | 37620 |
| aaagtctgct | ttctgggtctt | tcacagttaa | ggcatttcgc | ctctctcaaa | tttttgaaaa | 37680 |
| gtatagtga | tagcagtgg | gtgcagcatc | aagatgttat | ttaagtactc | aacaatgtgt | 37740 |
| gtcatcttgc | tgatatgaat | atactgaata | tggggagctt | ttaagagtaa | tccttaatca | 37800 |
| gttcatttgg | cattcttgtt | tggtttctg | cttttctatc | attgatagct | gtcatgttag | 37860 |
| ttttcagatg | atctttttgt | aatgacttaa | gtaagagcct | ttgtcttctt | tgcaagtcta | 37920 |
| agagacttat | gttaactgcc | ttctcttagt | gtttgagcta | attaaactgt | ttaataacaa | 37980 |
| atcactttaa | aaatacttgt | ctatttgtta | aaaataaata | ttgagcttct | gttatcttca | 38040 |
| aaactctctg | atatagttcc | agaaacgaaa | aactgagtcc | atatttgttt | gggaaatttg | 38100 |
| aagtctggta | aggtagaaaa | cacatcagg | atgtgaactg | tgactaatat | gaaggaaaca | 38160 |
| acagttttga | atgtgaaatg | atattggaga | acatctattc | caatttcctg | taaattgcat | 38220 |
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sequenece listing.TXT

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| catttaagtc | ctttgatttt | tttttgttta | ctatcagtac | aatgtggata | ctatctcttc | 38400 |
| tctgacacat | aatctggtac | attgtaggtg | tttcataac | tgttttctat | tccatcacat | 38460 |
| tgccaccttc | tctccaaaag | caaaatgata | taaaacagtt | tatttgtata | ttccttcagc | 38520 |
| aaacattgac | tgaggacctt | cttggtggca | agacatgtgc | cagggattaa | aatttaagta | 38580 |
| agaaagattc | tctcagttgg | tcttacttcc | tggaccaaga | gatacattga | caactagtaa | 38640 |
| gtctcttgtc | cttgctttct | ttggcagcat | ttgtccccga | ttctcattct | gcctctctat | 38700 |
| tcttggtctt | tttgtgggaa | tctgtttcta | tatctccctt | aaataaacct | gagaaaaaca | 38760 |
| agcaatgggg | aaaggattcc | ctatttaata | aatggtgctg | ggaaaactgg | ctagccatat | 38820 |
| gtaggaaact | gaaactggat | cccttcctta | caccttatac | aaaaatcaat | tcaagatgga | 38880 |
| ttaaagattt | aaacattaga | cctaaaacca | taaaaaccct | agaagaaaac | ctaggcatta | 38940 |
| ccattcagga | cataggcatg | ggcaaggact | tcatgtccaa | aacaccaaaa | gcaatggcaa | 39000 |
| cacaagacaa | aattgacaaa | tgggatctaa | ttaaactaaa | gagcttctgc | acagcaaaag | 39060 |
| aaactaccat | cagagtgaac | aggcaaccta | caaaatggga | gaaaattttc | gcaacctact | 39120 |
| catctgacaa | agggtctaata | tccagaatct | acaatgaact | caaacaaatt | tacaagaaaa | 39180 |
| aaacaaacaa | ccccatcaaa | aagtgggtga | aggacatgaa | cagacacttc | tcaaaagaag | 39240 |
| acatctatgc | agccaaaaaa | cacatgaaaa | aatgctcatc | atcactggcc | atcagagaaa | 39300 |
| tgcaaatcaa | aaccactgtg | agataccatc | tcacaccagt | tagaatggcg | atcattaaaa | 39360 |
| agtcaggaaa | caacaggtgc | tggagaggat | gtggagaaat | aggaacactt | ttacactggt | 39420 |
| gatgggtctg | taaactagtt | caaccattgt | ggaagtcagt | gtggcgattc | ctcagggatc | 39480 |
| tagaactaga | aataccattt | gaccagcca | tcccattact | gggtatatac | ccaaaggact | 39540 |
| ataaatcatg | ctgttataaa | gacacatgca | cacgtatggt | tattgcggca | ttattcacaa | 39600 |
| tagcaaagac | ttggaaccaa | cccaaattgc | caacaatgat | agactggatt | aagaaaatgt | 39660 |
| ggcacatata | caccatggaa | tactatgcag | ccataaaaaa | tgatgagttc | atgtcctttg | 39720 |
| tagggacatg | gataaaattg | gaaatcatca | ttctcagtaa | actatcacaa | gaacaaaaaa | 39780 |
| ccaaacacca | catatttctc | ctcataggtg | ggaattgaac | aatgagatca | catggacaca | 39840 |
| ggaaggggaa | tatcacactc | tggggactgt | ggtgggggtg | ggggaggggg | gagggatagc | 39900 |
| attgggagat | atacctaatt | ctagatgacg | agttagtggg | tgcagcgcac | cagcatggca | 39960 |
| catgtataca | tatgtaacta | acctgcacaa | tgtgcacatg | taccctaaaa | cttaaagtat | 40020 |
| aataaaaaaa | aaagaaaaaa | aatctttgat | gtttccctaa | tcctactttt | ttgccagcta | 40080 |
| ttcttctcat | tccatagtgt | atctctgacc | tttcccctga | gtttcaaattg | tatgcatatt | 40140 |
| caatgtccaa | taaatatttc | actaagatat | tccttaagaa | ttttaagcta | tctgaacccc | 40200 |
| aaactgcatt | taaaactttt | cctaacccaa | attcttttagc | tcaattttata | gcaaaaacat | 40260 |
| ccatttaact | aatgaagcca | actgttggtc | atccttcac | tccaccctct | gtattttacca | 40320 |
| gtcataaatg | ctaagtcttt | ttcctaacca | tatctagaac | catttgccat | tgtgtatatt | 40380 |

sequenece listing.TXT

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| tttcaggcac | tgttggtgaa | gtgtgttgta | catataaaac | cagtaaaaaa | tagagttttc | 40500 |
| cagcagaaga | aagtaaata | tctcatggaa | gcacctgttg | gactttgggg | aaagtaacag | 40560 |
| catatggata | atcttcagct | ctgttaccct | cctctctata | tcccctacaa | cttgctatag | 40620 |
| aagtagttaa | ggtacatctc | ttaatcaaac | tattagtctt | atagttaact | gtctccttgt | 40680 |
| ccttactttt | aataccagcc | tacttcctta | cacacaatta | atttcccaca | ttgcttcaga | 40740 |
| gtgattcacg | taaaatgaat | ctgaccctac | cgctttttct | cttaaaagct | ccctaacagt | 40800 |
| ttctcattgt | ttagtataca | tccagaatcc | ttcccacagt | acagaagacc | ccctgtgatc | 40860 |
| ttaatatctg | cctgtctgtc | ctgcctcacc | atgctacctt | gaattgtgtg | ttttattgat | 40920 |
| acaggcaatg | tatttttttg | catatagcac | accattttgt | gttctgcca | tgttctgctt | 40980 |
| tatgcctaaa | atgcccactc | cactaactta | gtcatccttc | aatgcaccaa | gatccaaatc | 41040 |
| agctttccct | gaaagcccct | cccctcactc | tcatcctcat | tcccactagt | tatgtcattt | 41100 |
| attccaagga | tataactaat | gtatctttgt | cattgcacct | accactttta | ctgaaattat | 41160 |
| ctcttcatcc | atctttaact | cactagaatg | tgggagggtt | gaggaaggaa | tgggagaagg | 41220 |
| ggttaggcca | aacatgataa | aactggaaaa | gggaagataa | tgctagatca | cagagaagtt | 41280 |
| tgaatgccat | gctctagagc | cctgcggtgt | aatcaaactc | gcagttttta | aaacagtaac | 41340 |
| ccaggtaacg | taaaacactg | agaaaaccat | ggttactata | actaggctga | ctcttgttta | 41400 |
| aaactctact | ctgaccctta | gtagttttac | cttgggtcct | ttgcaacaaa | actttttcaa | 41460 |
| ctgtagtttt | cttagttttc | aaatgggtgg | aaatagtatt | tgtccccaag | aattatgaga | 41520 |
| ttaaacaaga | taaagtatag | aaagtgggtg | tcttggattt | aacacattgc | agattttcaa | 41580 |
| tacacattta | aaaacatttc | tatttaata | gactacctct | aagaatttca | atagggtatg | 41640 |
| atcttccata | tcattgtgat | tgatttttaa | ggaaattagc | atgtggaatt | aattatttta | 41700 |
| aaaagcataa | attatatttg | cactctcatg | gtcatgggtg | cattattcac | aagagccatg | 41760 |
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| ctatgcagtg | gaatattatt | cagccttaaa | aagaaggaaa | tcctgccatt | ttggaacagc | 41880 |
| atagatgatc | ctggaggata | ctatgctata | gggaaataa | gccaaacaga | gaaaaaaaaa | 41940 |
| atactgcttg | atctcactta | tatatgagat | caaaaaagaa | aaagagagag | agagaataaa | 42000 |
| atggtgatta | tcaagggcaa | ggagtgggag | atgtaagaca | aaggggtaca | agttgcagat | 42060 |
| atataggatg | aataattctg | gagatctaag | atacaatatg | aaaactctag | ttataatacc | 42120 |
| caccatatac | tggaaatttg | ttaagactag | attgttgggtg | ctcttaccac | acacatcaaa | 42180 |
| aaagggtaac | tacagaagag | aatggatatg | tttatttggt | tgacagtaga | aactgtttca | 42240 |
| ctgtatataa | gtatatcaaa | accatattgt | tcattcttaag | tatataccag | aaaaagcata | 42300 |
| tatgtgaatt | aacaccatta | aaaatgaata | tttatttctt | taaaatttaa | ccataatact | 42360 |
| cctttaaagg | ttaagttctc | tactttttat | ccccttgatt | aaaaaaaaat | cataatttcc | 42420 |

sequenece listing.TXT

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| catttacata | gaaaagtc | attgtgaaaa | aaattgctgc | tcatatTTTT | aaataattta | 42540 |
| tagatTTTT | aaaagcttag | ctcatagcct | tgTTTTgtat | agcattagat | caaattatca | 42600 |
| tattaaaaat | atattctcat | ggctggg | agtggtcac | gcctgtaatc | ccagcacttt | 42660 |
| cggaggccaa | ggcgggcaga | tcacgaggtc | aggagatcga | gaccatcctg | cctaacatgg | 42720 |
| tgaaccccc | tctctactaa | aaatacaaaa | aactagccag | gcgtggtggc | aggtgcctgt | 42780 |
| agtcccagct | attggggagg | ctgaggcagg | agactggcgt | gaaccagga | ggcagagctc | 42840 |
| gcagtgagcc | gagatcgtgc | cactgtactc | cagctggg | acagcgagac | tccgtctcaa | 42900 |
| aaaaaaaaa | aaaagtcttc | tcattttt | attagaaaga | tgacaacttt | acaaggcaag | 42960 |
| tgaattctgt | tcttcacttc | caaatatatt | gaggaacaga | aattaagatt | ttaaaaataa | 43020 |
| gtaatatatt | tgtaatgaca | ataatgacaa | tcatacccat | ataaatcaaa | ggaaaataaa | 43080 |
| tccagaacaa | aactcaagat | catctttcca | agctttat | aagtggcaaa | acaacttaaa | 43140 |
| ctaaaatatc | tgaacatatg | ggtattgctt | atctgtgaca | tgtgacttaa | gtaatttgat | 43200 |
| actaagaaag | ggaatgtgtt | gttaatggtg | cagttattaa | ataggtatag | ttatatgtat | 43260 |
| aaaaattaga | attgatatcg | ataaccttat | tacttgtatt | tcaatatact | tttttatgat | 43320 |
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| actgatacca | atttccaggc | aggaaggaaa | aaaaaaatct | aagaaccatc | cttgtctaac | 43440 |
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| ttcagtattt | ccaattgttt | acagttgctt | aactatgata | ttttcttttc | tttttttttt | 43560 |
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| caaaggttca | aatacaccat | ctatttaatg | cttcctaaaa | aaccatacta | aacttagtgg | 43860 |
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| ttatgtatta | aaataaaaa | ccctgacgat | ggtatgcttt | ttcatattac | aaataagaaa | 44400 |
| acagaaaggt | taaatgggca | aatcattgtg | gagtcaaaag | caaaagttgt | attttcagac | 44460 |
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sequece listing.TXT

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| cctccatctc | ccggatttaa | gcaattctcc | tgccctcagcc | ttccgggtag | ctgggattac | 44760 |
| aaacacgtgc | caccacgccc | ggctactttt | tgtattatta | ggagagacag | ggattcacca | 44820 |
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| ccttaagcac | aaagaaaaca | gttttatctg | ctttgaatat | ctttaaagtt | tggtcttctt | 46260 |
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sequenece listing.TXT

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| gaaaaaaaaa | aaaaaaaaaa | aaaaaaggta | acaaacacta | aaggacagaa | ataaaaactca | 47340 |
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| agtcttgctc | agtcgcccag | gctgaagtgc | attggcgcta | tctcggctca | ctgcaacctc | 47460 |
| cgcctcccga | gttcaagcga | ttctcctgcc | tcagcctcct | gagtagctgg | gactacaggc | 47520 |
| acgtgccacc | acgccctgct | aattttttgta | ttttgagtag | agacgggggt | tggccatggt | 47580 |
| ggccaggatg | gtctcagatc | tcttaacctg | gtgatccgcc | cgcctcagcc | tcccaaagtg | 47640 |
| ctaggattac | aggcgtgagc | caccgcgccc | ggcttctcag | catagtatct | tttcacatca | 47700 |
| tagtctttga | gctgatattt | tccttttgag | ttgaaatcag | acatatgcat | tctgagttga | 47760 |
| ttatcatagc | tttctctgta | agagtaactg | gttgccaaat | actactaaat | gtgctacctg | 47820 |
| atgtgctaata | agaaagggct | ttgcagtaaa | tgtcttggga | attaagatta | actataatca | 47880 |
| ttaagtccta | tgatctgaag | cactacaatc | tgtttacctg | tattagttgt | ctttttatag | 47940 |
| caaatgatac | aagaatcaat | caatacatta | attataactt | gcaaatagtt | catccaagat | 48000 |
| gcagtatatg | cattgttgta | ttttttaaat | ttcattttatt | atgttttttta | gagacagggg | 48060 |
| cttgttctgt | ttcccaggct | ggagtgcagt | ggtgcaatca | taactcactg | caacctggaa | 48120 |
| ctcctgggct | caagcagtcc | tccgacctca | gcctctgaag | tagctaggac | tacagggtgtg | 48180 |
| tgccaccatg | tccagctctt | gcatgtttat | ttatatatcc | acctgttaaa | tcaatgatta | 48240 |
| gtatatgtag | aaatttcgga | ggagaaaact | atatttgaag | aaaatcaaata | aggcatctca | 48300 |
| ttttgaatgt | ttagaacagt | gctttccaat | agaacattct | gtgatgatata | aaatgttcca | 48360 |
| tactctttgc | tgttcaacac | aatggccact | atccacatgt | ggctactgag | cccatgaaag | 48420 |
| tgccaatgt | cactgaggaa | atgaatgttt | taatgtgttt | aatttttaagg | aattttaaata | 48480 |
| taaatgggta | catgtggcta | atggcaaaca | tgttgaacag | tgaagatcaa | gaccatttaa | 48540 |
| aatgtatttg | attataagtg | atagaccact | gaatatcaaa | atatgtgacc | ttactcattt | 48600 |
| tatgtgtaata | cattttatgg | gaaattttac | ttaattttaca | tttttctaag | taaaaaaata | 48660 |

sequece listing.TXT

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| caattaaaat | gcaaatcaac | atattttaata | cagtgagtg | tggtgactag | attagtttgg | 48720 |
| tggtaggagg | gattagcccc | attccataat | ctctgttatg | gctctccac | tagccacctg | 48780 |
| aatggtaagt | ccaggtaaaa | aacagtacag | tatgcatgcc | gtaaatatta | tttcaataca | 48840 |
| agtgtcctca | tattcagagt | aagaagaaag | aacaaggaaa | tgatagatct | gatgcttgag | 48900 |
| atgtaatcaa | taactaaca | agagagagac | agtgtttcta | gctctatatt | gactatatat | 48960 |
| ttttttttaa | atcagaaaga | acaatctttg | gattgaaaac | atgctaagca | aataccatta | 49020 |
| aaaaggaaac | agaatccata | gagaaaggat | tgtaaaaaag | cagctccttg | tttccaaacc | 49080 |
| tagaatgaac | aaatttttatt | cccctgtaag | ttgataacat | ttgtaaatga | ggtttgtgaa | 49140 |
| actgcagtct | ggaaattttt | agtaaatgtg | gagagcagaa | atgttgccca | aagaactgtg | 49200 |
| caaagggtag | atactaagac | ctccatttaa | acagaaagga | gagagggagg | agagagagaa | 49260 |
| aaagagacag | agaaaggtag | gtgggtgctc | aaacttaca | aattgtgacc | agaacagata | 49320 |
| actaaaggga | tgacttatga | cctttaaaaa | aggaaagcag | tgttcactag | aagcaaccat | 49380 |
| gagttcacag | agaaaaactt | ttgtccaact | aaccacactg | tctgttttga | ctaaggaaaa | 49440 |
| aagaaaaaaa | cgtgtttag | gttgtctgta | tgaaagtaat | tgaaaagggt | tcccatgata | 49500 |
| gcccataata | gataaagaaa | taaggaggag | atgataatgt | agttgggtag | atcataatta | 49560 |
| gttgaacatc | caagcccaaa | gagtactgat | tagctgaagg | gtgaactctg | tgtgtgtgat | 49620 |
| aaagagctca | gtcttttagtc | ctgtttctgt | ttttgttttt | tcaccatttg | tttcagtggc | 49680 |
| ttacatttgc | gatgagcaag | cacctttgca | taaaaagcaa | ttcaagaaaa | acaaaaatat | 49740 |
| tcatggctat | atggtagtcc | atgatgtag | tattcatggc | tatatggttt | tatcacttat | 49800 |
| aatcaaaaaga | accaaccaa | caaacaaaa | acctgtttgt | gacatactac | tctactcatc | 49860 |
| atgagtgtta | gcccattctgt | gccatgttgt | tttagtaatc | atcttccatg | cccacacctt | 49920 |
| gatagagtaa | tacatgattt | aaatttttagt | tcttttccaa | atgttccaaa | tttctataat | 49980 |
| tatcatgtgt | tatttaaaga | atcactccct | tttccatcta | tttcacatta | tatggatact | 50040 |
| gtcttagaag | atgtggacat | tatagttgat | ttaggtaagc | tatcaatatt | agattgctaa | 50100 |
| gaggacaatc | tgattccttt | ttaaaaatta | attacttaat | tattttttaa | tagagatgag | 50160 |
| gtgtcgccgt | gttgccaaga | ctgttctcaa | actcctgggg | tcaagcaatc | ctccctcctc | 50220 |
| agcctcccta | agtgtggga | ttacaggcat | gagccacaac | gtctagcctt | tgttcttttt | 50280 |
| taaagcttta | ttttcacaac | tatttttatga | aagagaatag | agacactact | cccattctac | 50340 |
| tttttactca | ctagattgga | atttctcacc | tagttaataa | attttaagag | gtatcagaca | 50400 |
| atttgaagg | cattcataag | atagtgaata | ggatgcatag | aaacttatta | gagtgattag | 50460 |
| agcccatttt | atttgattct | aggggataaa | atgagaacca | ataaagtcta | agccttaaag | 50520 |
| agatggagtt | gggctgagtt | taaagaaaaa | tgtttcaaca | gagtattcta | aagggttagt | 50580 |
| aaaccaccta | ttaaaagagt | gagttctctg | tcacttttag | gattctagca | gactttgaat | 50640 |
| atccaattag | cagggaggtt | tgttgagcaa | tttcagatag | cccaaagata | acagcctatc | 50700 |

sequenece listing.TXT

| | | | | | | |
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| caatccttaga | ttcctatcttt | ctgtagcaaa | gccttgaaga | tgattagcac | actttgggaa | 50760 |
| gcgagtgtta | ccaattgagt | agccaggcca | tgttctaact | tcattttttac | cctctttctct | 50820 |
| tcccttggtc | ttcatggcta | agtgccttaa | tgacacctta | cctgatggca | atgttggaag | 50880 |
| aagaaagtag | tcagacttct | ccagaaatca | ctcccttccc | tcccatctgt | tgaggctcac | 50940 |
| tgctaagcct | gaatatttga | gaacccttcc | tgagagtctt | accacgaag | cattagcttt | 51000 |
| agactccctc | attataccca | aatcatatct | attgcaacat | ggactaggat | ttaaatttct | 51060 |
| agagtaaacc | attggagctt | ctcttcttgt | tcctagatct | cagcttactt | tctttttgag | 51120 |
| ttccattctg | acaaaatggc | ccttactgat | ttccaaacct | cagttcctca | cctatggcca | 51180 |
| ctttatatta | ctggaatttt | gctagagacc | catcactgga | gtaatgctgg | aagtttgtct | 51240 |
| attcagaaaa | tgctcaact | attccatgct | cttgccctct | attctcatta | ctgaaatttc | 51300 |
| taccccagag | acttcagtcc | ccaggatttc | agtcagggtga | gtagctccaa | gggaactatg | 51360 |
| gcacaacagc | attccaagaa | tccatttctt | ctttgttcag | atgtctaagt | atcaatggcc | 51420 |
| tcccagatgt | gttgctacta | tggttactta | cttttcaaga | ccttggtgcca | cctcagcttg | 51480 |
| gttcttcaga | ttttgcttgt | actgtcattg | gagattcttg | taaatcttca | aactttgggtc | 51540 |
| ttttgcattc | ccagctaaaa | ctttcctgat | gccagtcttg | atgtagtaga | tgaatttact | 51600 |
| gatttctcca | gtcttggggc | caatcttgga | tttgtaagct | gtcagggtatc | actgaaaaat | 51660 |
| cttaaacadg | gaacacttgt | gttgaaactt | ttttgaaact | ccagtcagct | tttattgctt | 51720 |
| tccatatttt | aggaatcggt | gccagataat | gtcaattttg | taactaatgt | aacaaaagga | 51780 |
| agagacatgt | tttatatgaa | tgacacaaa | aatcaagctt | aagggttttct | ttttgctttt | 51840 |
| cccaaattca | aaacaccaca | aacagctcac | tattttctaa | atagagcaag | gacacttttc | 51900 |
| aaaattgaaa | ttgtaaatat | aacacctgtg | tgctaagctc | tgcaatgtgt | gaaatttgag | 51960 |
| attgttggtg | ctaattgtta | aagcatagaa | agtctgagta | gtgactgtct | aggatcagca | 52020 |
| agtatgctca | ccacagtcag | ttcctggagt | tgaattatct | gaaattggca | gggtggtttct | 52080 |
| ctttttccat | agatttcatt | ccccttttcc | tgacagtaca | tgtgttttgt | gacctccact | 52140 |
| gtttatttag | cttctgcata | cattccttag | aatttgttta | atgtgtggtt | tttttggttg | 52200 |
| cttgtgtttc | ttgttatgct | tggctactac | tagaaggagg | agtgggtggtg | gtctgctttg | 52260 |
| ggttggcagt | caaaacaaat | gtgatactca | ttttaaatat | ctggctttga | attttcatat | 52320 |
| aaaaatataa | gcaccattta | cataagtata | ttgcttgaat | tgaatttatt | ttccattccc | 52380 |
| cacttgctcc | tgaaagaagt | gcctgtaaac | tccaaaatga | tttaagagag | agcatcgga | 52440 |
| ggaaagaaaa | gtgaagagt | agagtaagcc | actaactgct | taatcaaacc | tgaatgagcc | 52500 |
| aaacaaagtc | caactgtgat | ttactttctg | catcataagt | tgcaactatt | gcaactgtga | 52560 |
| agagttaatc | tctcatttat | acctccttac | ttcttactgc | cttcccgggt | gttggtttact | 52620 |
| tgctctgtct | gttacaaact | ggcagtcaca | tcgcataccc | tattatagtt | agtacacttt | 52680 |
| gggtgtctgag | gaggatggga | acaagaaaac | aaagaaatag | aaaattagaa | aatcaaaag | 52740 |
| gaatttatga | atagaagata | ctttcttatt | attaatatgt | tcatttttga | aaagcattaa | 52800 |

sequece listing.TXT

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-------|
| cagtaaggta | gtagaaagca | ttgacatttg | gagtggatct | gatttggaag | gcccttctgg | 52860 |
| gatctctcta | ctctggggtt | tcagaacctt | tccatcacct | ggtattcttc | acatcccttt | 52920 |
| gtctgttggt | ttttagactc | tctttttttg | cccattcatt | aaatgctact | cgtccccaaa | 52980 |
| ggcattgtcc | tcagtctact | gctgttcttc | tgcaatgctt | cagctacaat | gtatacatat | 53040 |
| gttaatgacc | tgaacttttc | tatttcctag | ctgtgatctc | tacccaaagc | ttcatgtaca | 53100 |
| tttcattata | actgtttatg | agaattttcc | cttagtgaca | gtaggcactt | taaatggatc | 53160 |
| acttctagaa | ctgatcattt | tattcttccc | ctaaagtagt | gtttctcctc | tgaaatcctc | 53220 |
| ttaagttcta | gaatcctagg | agtcattttt | gatttctcag | ttactttaaa | gtttgcccg | 53280 |
| atctattcaa | tccaggacca | aattctggct | ctgcattgtg | tgtgtgtgtg | catgtgtgta | 53340 |
| tgtgtatgtg | tgtgtaatgc | agttattgtc | atgtcgtcta | cttgcttaag | aaaattcttc | 53400 |
| aattgtttat | tattaccttc | aggataaaat | ccaaactact | taagggtgaca | ttgacatctt | 53460 |
| ttaatgattt | agtccaact | tacttacc | tcttactgtt | ttcacactcc | ctggctcata | 53520 |
| acttaatctc | tagcaatcct | gcttgtagtt | ccctacgcta | catacgggtc | ctcgtataaa | 53580 |
| tgctgtctt | tgctcatgtt | atcccctacc | tggaacaact | ctttctcatt | ctttttaaat | 53640 |
| ctcaatcatt | ccctctttca | gaaagaattt | caaacaattc | ttctcaagta | agttaggcgt | 53700 |
| cattcctcct | tgcttcaca | aaaatacgat | gaatgcatga | tacaatacat | caaaattatc | 53760 |
| tttttatata | tctatcccct | gcaaactact | gtgagctttt | taagactcag | gattattcaa | 53820 |
| cttccaattc | tcatcagtta | acacagaatc | tgacatgtaa | taagtgtca | ataaatat | 53880 |
| catttactta | atgaaaaaaa | gtcattaatg | aagactgaat | accttgaaaa | ttgttctttc | 53940 |
| tgcttttgga | ttttgcacat | aagaactctt | agtaaagcac | ttatctattc | tcagtcttca | 54000 |
| cttggcctct | ctttttggca | actgaaatga | ctcattttct | ttacagctcc | tccctttggc | 54060 |
| actctcgtgg | cctgtgatcg | gctcctgttc | aactcttcct | cttggccttc | ttgaccacag | 54120 |
| actcaaatgc | cctgagagaa | tcagagctgt | ccccttgtct | ttcttcttcc | attgccagtt | 54180 |
| ttataaatgg | aagatctaaa | tatatgtgag | tgtatgtgta | catatatagt | atatatatat | 54240 |
| agtatctgtc | aagttttcaa | caggaaaaaa | ggtctcagtc | acacaatatc | ctatgtcata | 54300 |
| tacaatatta | caccatgata | tatgagatta | aaagagtaag | ggttaccagc | tgaaaacaag | 54360 |
| aaagtgcaaa | acttcttttt | tgggtcaatg | ctttctggac | cttctgagca | gctcatcctt | 54420 |
| attcttgact | ttgtggtcac | ctcaaagctg | attgctagt | acattttcac | agtggtaagt | 54480 |
| ttttacaaag | atatctaaaa | accacaataa | aaagtttata | ttttagttgg | tatgcctaga | 54540 |
| attatagaaa | atatccgtga | ctatgtttta | cttctgtctt | tatcagacat | aattctcaat | 54600 |
| tttataagtt | gatgtgttga | taaaatggtg | attaaaaagg | aagcagatgt | tttgtgcatt | 54660 |
| aggaagcaat | gaagattata | gaaagtgtgt | aactggaata | gctataacct | tcttttat | 54720 |
| atttattctt | ctgatttgcc | atagtatgtc | aaaggaaaat | attttagatc | tgtaataatt | 54780 |
| ttttgcaata | taaaagatat | taaaataata | aatgaaagt | aattgtgatg | tgaaaagtat | 54840 |

sequece listing.TXT

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|-------|
| tatgatcatt | tggttatattt | aattcctttat | agtactaaac | catgaagcta | tttaaattat | 54900 |
| tttggttttg | aaagcagata | tttagagttt | tggtattatc | acatcatact | tacgatagtc | 54960 |
| catattgttc | ttaattaggg | agtatcaatt | tactgtagat | agtccttaac | ttctaggagt | 55020 |
| ttataggtaa | aatggaaaga | atttcaatat | aattttgtat | acagtggcca | tgccatgaac | 55080 |
| tgccctacaa | atgaaataaa | ttttcagtga | cttttaaaaa | tgttagaaac | aacctacaaa | 55140 |
| agcaaaattg | tctcctggct | ccctgcatgg | cccctgactc | tactcatttc | acaatattct | 55200 |
| cccattgctc | tcttagctgc | aacttgccct | acagtctctt | tgttatacca | caggatcttt | 55260 |
| gttcaaaatc | ttccttctac | ttggaatgtt | ttcccccgac | cctcccaa | gctcacaaac | 55320 |
| acataccatg | ctagttccta | tctatcttcc | attttaacta | aaacatccct | tcttttcaga | 55380 |
| gctttatcat | tctaaaccaa | ataaagtc | tttataaagt | tattttatga | tacttattac | 55440 |
| tatttatgat | tatatgttat | ttgtgtggtt | attttattaa | catttgtctt | tttggtagcc | 55500 |
| tataagattt | atgagaccag | agattatttt | tggtggttca | ttgtattccc | aacatctggc | 55560 |
| ccagtttttg | gcacgtagta | gatgttggtt | ctctatatac | tggtatggatg | agtgaatgaa | 55620 |
| tttttcagac | tactgccaga | ggcttcttat | taagatcagt | tcagttagta | cacttttctt | 55680 |
| cctttgcttt | cctatggctt | taaatactat | acagaatact | ttttattata | cccaacacat | 55740 |
| tttgtcgtct | ttccctaaca | tacaaatcca | gttagacttc | caattcatcc | tagataccta | 55800 |
| ccatcctcct | tctccatgtt | tttatctctc | cctcggggaa | ggggaagggg | gagagcattt | 55860 |
| ccctttgtgt | tcttgttttc | cttaaaactg | acctgaagtt | cccattcctg | tgctttttcc | 55920 |
| atgctgttct | ataaccctgg | ggtgtctttc | tgtttccttc | atcattttca | gggatgagct | 55980 |
| taagtatcat | ttatttctga | agctttccct | tgttctctgt | acataccctg | tctgtattaa | 56040 |
| ctaccatttc | ttctgcattc | ctacgttttt | acttgttgta | gcattttctc | ttttgccttg | 56100 |
| tctgtattct | tcagtatttt | ttaagtatgt | taaagggagg | gctaatttct | cattcaactg | 56160 |
| tgtatttccc | acaatttcaa | ttatagtgt | tagaataata | acagctaata | aaatttaaaa | 56220 |
| ataattgaaa | tttattattg | tcataaatta | tgaaaaagat | tgacttagtt | gtggactatc | 56280 |
| tttaggtgat | gataaatttt | gtattcagag | aatattgcat | ttctatattt | tttctccaat | 56340 |
| cagtcccaat | tgatctgtca | cacaactacc | attcaggtat | catttcccac | cataacatga | 56400 |
| cactttgcat | cagctaata | acctgacaca | taccttaata | tctctgtgtc | tttgtccatc | 56460 |
| tattttttaa | gtctagaata | cactttctta | acttacacta | ttttatttat | cagaattctc | 56520 |
| actcatatat | aggtgaagat | tttggccaat | attgtcttcc | tcagtgaag | tttcttgatt | 56580 |
| gctccttttc | atttcccatt | agaatttatt | accacttata | ttgtggttct | taaaaactgc | 56640 |
| ttgttccttt | ccttaagact | tattttattc | cagccaggtg | cggtggttca | cgcttgtaat | 56700 |
| cccagcactt | tgaggagccg | aggcgggagg | atcacctaag | gtcaggaatt | tgagaccagc | 56760 |
| ctggccaaca | tggtgaaacc | ccatctccac | taaaaataca | aaaaaaaaa | aaaattagct | 56820 |
| gggcatggtg | gcgggcacct | gtaatcccag | ctactccgga | ggctgaggca | ggagaattgc | 56880 |
| ttgaaccag | gagacagaga | ttgcagtgag | ctgagattgc | actgctgcac | tccagcccgg | 56940 |

sequece listing.TXT

| | | | | | | |
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| gcaactgagt | gaaactccat | ctcaggaaaa | aaaaaaaaaa | aagaaagact | tatTTTTTtc | 57000 |
| caacttgtag | cctaggttgt | tgtactccaa | agctcatgtg | ctgcactagt | gtgcaaacag | 57060 |
| gtttgcta | ttgtgcacta | cccagtgacc | actcaagggg | ttgggatatg | actagctgaa | 57120 |
| agggttaatg | agtagctggg | cttacctgta | atcatgggtt | ctttatgcta | catgcatgga | 57180 |
| gtttaaagat | agatgaagcc | ccttgaactt | ttaaagttaa | aaaaaaagaa | cttgacaaga | 57240 |
| gaattccttag | catattcagt | aacatagtaa | ataacttcat | atgggggtatt | ttatatcagc | 57300 |
| taaattttatt | aaaaggtgaa | tctttatttg | cctcctgttt | tataaattct | TTTTTTTTtt | 57360 |
| tttttgagac | agagtctgcc | tctgtcttgc | ccaggctgga | gtgcagtggc | acgatccttg | 57420 |
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| ctgggactac | aggcctgtac | caccacactt | ggctaatttt | tttgtacttt | tagtagagac | 57540 |
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| acaaattttac | tgcttttaag | atttagttca | gataaggttt | tcctttttat | agtttgctaa | 57780 |
| gctcaaatgt | tcactcttaa | attaaaaatg | gttctgagtt | accaataaaa | atgtatgtgt | 57840 |
| gagtgtgtgt | gtgggtaggt | gtgcatgtct | gtctgtctag | aggaaaaaat | attatgtaag | 57900 |
| ttccacagg | gattctctca | acacttggtg | gtagaacaga | agaagaaaat | acagtggtaa | 57960 |
| acaaataaaa | ctcccactac | tgtcttcagc | agacatcatg | ataagtactt | cacatgcatt | 58020 |
| atcacattta | accttcgtat | taaccacact | ttgtagatca | ggatatctaa | gcttggaatg | 58080 |
| agtaaggcac | tagctctcta | agttttat | gcaataatac | atgtcaagac | aggatttgac | 58140 |
| atgtattcat | acctattcga | tatctcttca | tatctattcg | ataggtaatc | tgaagagatt | 58200 |
| tccacttggg | ctctgactag | atggacactg | atttctaaaa | gtaaataccc | aattcctgtg | 58260 |
| ttaggttcag | tagtctaaat | atagcccca | ttacaagata | caagcacaga | ggaaagactc | 58320 |
| atccccaac | cttggtgcc | gaatgaaagt | aaggatacag | acgcaagagt | cttctctgag | 58380 |
| gaagtggccc | cagagcaaac | tgtagaggcc | atagtaggca | ggaatcaggg | gtctgcttat | 58440 |
| taaaagttat | ttcgttataa | tatattctac | aaaacgagtg | taagtatggt | agattcaaag | 58500 |
| atctagtttt | gagtttaatt | aaactttact | tcttctagaa | cacaggcca | taaccttaaa | 58560 |
| aagcttctta | tgaagaaatg | cctcttatct | gtgcccacaa | tgaattgggt | tatataccac | 58620 |
| accttctaaa | tcgtttgga | aaaaggaggc | cctcccttat | atatattgaa | atgactccaa | 58680 |
| accacaagaa | ccataccatg | gtagcatctg | ggattaatgt | gatagatgct | gccaaagttt | 58740 |
| ctccccacag | ttctgatacc | atctcagcca | gaactgtagg | tctatgtcaa | aaatgtccca | 58800 |
| cagagcctac | taatttactt | aagctttgaa | tccgagtaat | tatccatgat | caattcatac | 58860 |
| ctaatagtat | tttccctaac | atcaagttta | aaaaaaaaag | cttttactg | aatgtctgta | 58920 |
| acaacaacaa | aaatatggcc | attgccatct | ttttctttac | gtcacattca | caaccctggt | 58980 |

sequece listing.TXT

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| tgcaagcatc | accagacctg | caagagcaac | catagatggt | ttacattttc | accacccttc | 59040 |
| tttaaagtaa | actttctctc | taattcatgt | cttaaaaaca | taaggtagat | ataaacctca | 59100 |
| tctttctatt | ttagagattg | catactggca | tatgtgacat | gtaattgtag | cattgttcac | 59160 |
| tgcatactgt | gcatgtggtg | aattccatga | tatcagaaca | acagaatagc | aaagtccaat | 59220 |
| gtcttcgtta | ttaaattaat | taaaatgaaa | tctaaagagt | ataacaggag | ttttagcatt | 59280 |
| acttatgaaa | tactcaaadc | ggcactatct | tgtctatgtc | ttactccagc | taatcacatt | 59340 |
| ggcatatgta | acttatataa | atgttcactg | aaaggctata | cacatcaaca | aaatgaatga | 59400 |
| gaaaaagaaa | actttcctac | agcctagtat | tagatccata | taaattctct | gtatgtgtag | 59460 |
| cataacaaac | atcctgactc | tcatagagct | attattctcg | ttgtaaacca | gttatagcta | 59520 |
| aactcaggct | ctgatttatt | tttattgatt | ttaaataaac | tgaagcttac | acttttaacc | 59580 |
| caattgaata | tcctagaaaa | tagcagatga | tcagtaacaa | aacataagat | ttagtggtag | 59640 |
| ttggttaggg | aatttttacc | aaaggacttg | ctataaacca | ttatagacct | gactgctgac | 59700 |
| aaacatttac | aattaaatct | tcaggtagtt | ttccaatcca | tgcagtaatt | caataccagc | 59760 |
| attccctctg | ctattttatat | ctactttttc | cacatgtcat | tgcctgagct | tctttgtctg | 59820 |
| tcaatctcac | atattcatat | tttttttcaa | actggcatct | cttgacttgt | tccagttctc | 59880 |
| tgttcctaca | ctactgtttt | tgaattgttt | tatgggcata | gagataagtc | attggtgagg | 59940 |
| tgatttgagt | tcttattcaa | gagaatgatg | acaaacttga | aagtaaaaga | tgtagtaaat | 60000 |
| gagccctgct | tggtactagc | ccaacatagt | ctgtatgagt | ctgaaatctc | atacagacca | 60060 |
| taataaagca | tgcatccgtc | tatccattca | cttgtcaatt | tatcaaatac | ttacagagta | 60120 |
| ctagaaatca | atgttcaagt | taggtatgct | acatgacatt | tattttcaaa | acaaattgat | 60180 |
| atatagttaa | aatatatttt | aaggtagacc | ctagtttcac | tctcaaattt | ttaaaaatat | 60240 |
| tttaatatgt | gcaaatgtga | gtccgttact | tgtctctcta | tataaatctt | gcagttcaga | 60300 |
| ggttacaaaa | attttacctt | atttgaattt | taatgaagtc | cttcatgttc | tttgaacagt | 60360 |
| ttttgactta | tcaaaattgc | aaatttgtga | atcatatatt | aagtcagtgt | tcatttgaaa | 60420 |
| acagtcaagc | ctgcatgaaa | gtaaaagagt | agaaattctg | tgcatatatg | ttatatgggg | 60480 |
| cccctttgcg | tgattccatg | acagccagca | gataggccta | gtggatttta | tgataggagc | 60540 |
| cctctgaaca | tgaccatagg | agaaactaaa | cgaagtagtg | gtcattttga | attactccag | 60600 |
| gaaatttgaa | gagagatgtc | cttggtgcct | taaaagtaaa | acatttttaa | aatattcaaa | 60660 |
| agtcatttag | agaaaaatat | gactatgcca | aatagtaagc | atacttttcc | ttaattaata | 60720 |
| atcaaaaaca | tctcttatgg | ttttgaagaa | ttttcagcat | catgcaacca | cctaataaat | 60780 |
| gtgcacaggt | accccgtttc | taatttaagc | attgaaacta | atatctatat | ctatctaaat | 60840 |
| agatatagat | attgactatg | actatgtcaa | atagtaagca | tacttttcct | taattaatag | 60900 |
| tcaaaaacat | ctcttacgat | tttgaagaat | tttcagcatc | acacaaccat | gtaacaaaca | 60960 |
| tatacatgta | ccccctatat | ctaagttaaa | cattcaaact | aatatctata | tctatatcaa | 61020 |
| ttcaatatca | atatagttta | caaatatctt | ctgtcattct | ataggtgtct | gtttgctctg | 61080 |

sequece listing.TXT

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| tggatacttg | ggtttttttt | ttttttctgc | agaagctctt | aagtttaatt | agggtcccatt | 61140 |
| tgtttatttt | tatttttggt | gcagttgctt | ttggggactt | agccaaaaat | tctttgtcaa | 61200 |
| gactgatgtt | gagaagagta | ttttctatgt | tgtcttatag | gattttttgta | gtttcaggtg | 61260 |
| ttacatttaa | atctttgatt | gattttgagt | taatttttgt | aaatagtga | aagtaggtgt | 61320 |
| ccagttttat | tcttctgaat | atggctagcc | agatatccca | gagctattta | ttgaataggg | 61380 |
| agttcttttc | ccatgcttat | ttttgttgac | tttgttgaag | atcacatggt | tgtaggcgtg | 61440 |
| cagcattatt | tctgagtttt | ctattctgtt | ctattgttct | acgtgtctgt | ttttatatca | 61500 |
| gtaccatgct | gttttggtta | ctgtagccct | gtagtgtagt | ttgaagtttg | gtagtgtgat | 61560 |
| gcctctagct | ttgttccttt | tccttaggat | tactttggct | attcaggctc | tttttttggg | 61620 |
| tccatatgaa | ttttagaatt | ttttttctaa | ttctgtcaag | aatgatgttg | gtaattgata | 61680 |
| ggaatagtgt | tgaatctata | gattggtttg | ggcagtttag | ctatgttttag | gatatacaatt | 61740 |
| ctcccaaact | gtgagcatgg | aatattttcc | catttgtttg | tgtcatctcc | cgattttcttt | 61800 |
| cagcgggtgtt | ttgtagtctt | ccttgtacag | atctttcacc | ttctgtattc | atagggtattt | 61860 |
| cattttcttt | gtagctactg | taaatggcca | aataatatgc | aaaagtgctc | agcatcacta | 61920 |
| atcatcaaat | aactgaaaat | caaaaccata | gtgagatgcc | ttcttacacc | aggcagaatg | 61980 |
| gcaattatca | aaaagtcaaa | agaacaacag | atgctggcaa | ggttgtggag | aaagagaatg | 62040 |
| cttatacatt | gttgggtggga | atgtaaatca | gtccatccac | tatggaaata | agcctggaga | 62100 |
| cttctcaaag | ctcttaaaac | agagctacca | ttcaaccag | caatacaatt | aattactgga | 62160 |
| tgtataccca | aagtaaaata | aatcactcac | taaagaaaaa | ataagcacc | atatgttcat | 62220 |
| tgttacgcta | ttcacaaaag | cagagacatg | aaatcaacc | agatgccc | cagtggtagt | 62280 |
| ttggacaaag | aaaatatagt | accatgtaca | tcatgaaata | cgacacagcc | ataaaaaatga | 62340 |
| atgaaatcat | gtcttttgca | acatggatgt | agctagaggc | catagtccta | agcaaattaa | 62400 |
| cacagcaaca | gaaaactaaa | tcccacatgt | cctcacttat | aaataggagc | taagcattgc | 62460 |
| acacacatgg | acatacagac | actggggact | actagagcga | gaagggaggg | aagtgggtgt | 62520 |
| gggttgaaaa | attacctatt | ggatactatg | ctctctacct | gggtgggtggg | atccattccc | 62580 |
| caaagctcaa | catcatgtaa | tattcccatg | taacaaacct | gccacatgta | ccccctgtat | 62640 |
| ctaatagtaa | cattgaaagt | aatctctcta | tatatataata | taaactgata | catatatata | 62700 |
| tgaaaaagaa | tgtatcacgc | aaattcttag | aaacttggtta | atagattgta | gctcataagt | 62760 |
| agatttgta | caggatttgg | ggaaaattga | attatacaaa | gataatttca | gataaatgtt | 62820 |
| tatgagataa | aaattataaa | tatgcttaaa | taggaatggg | caggtaggaa | gggagaattg | 62880 |
| atactgtata | tatttaactt | agttaagata | gaagataaca | gcctaccagt | tactttctta | 62940 |
| aagacactgc | cccaaagttc | tacaaaaact | tctgggcctc | atgatgaagg | gttctagagg | 63000 |
| gaatcaagta | ttctgacttc | taaaacctca | gggtatttat | agctagacac | ttatgaggta | 63060 |
| ctatagttgg | ctgacctcag | gaagaaaatg | tagtagagtg | tttttaaaaa | caaagagcat | 63120 |

sequece listing.TXT

| | | | | | | |
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| ctaaggaaaa | atagataaag | ttattaagaa | gttggagata | tttttatagt | aaaagagact | 63180 |
| gagtaagtat | atgtcaaaat | aatccatcat | aatgaaccac | atgagtatgt | tgaatgggaa | 63240 |
| tttcaccaa | ctctacaata | ccaatgtttt | ggggcctctt | ggatctcttt | tagggccaag | 63300 |
| caaatcaaag | tattttattgc | ttgtttttac | gtagtacaat | ttgaaactta | ttcaggatta | 63360 |
| tggcctaact | tatgagtata | agaaacaaag | gaattttaa | aaagttatga | ataaggaatg | 63420 |
| agtaattatt | tattatgggt | acaaagaaaa | agttgacctt | attgagaacc | aaaggacttg | 63480 |
| gtctggttta | tcttcttttc | ttatactttt | cctgagaaag | atgagactga | aactcagggt | 63540 |
| actgatagat | cagtagtcca | caccacattt | gtggttttta | gttagcatca | tcctgattca | 63600 |
| tgtgctctat | gctgctagtt | atttctagaa | cattaccctt | tgtattcaga | cctgatggag | 63660 |
| tagagagttc | tgcttaatat | ggccaaaggg | agtaaaatgt | gaatagcagt | gacaaatctg | 63720 |
| gatacatctt | ggtttgtgtg | ctttttaaat | tgatctccct | aaattccctt | tccttgtaaa | 63780 |
| tgaactaaca | caacaccacg | tttagcatga | tatattgggtg | acttggttta | attttgcctt | 63840 |
| tctctccatt | tacaaaatta | agttatatatt | tgtgaaagtg | gtgcttcagt | agcgtattat | 63900 |
| atggtaaagg | cttgttacat | ctagatccct | acatcactat | ttcaaaatta | tgttataggg | 63960 |
| aaagtttttc | tctcattaga | aacaagaaat | aaaggcctta | aaatcctttt | taaacatatt | 64020 |
| ctgctgtttt | ctgtgctatg | gtgaccaatt | taaaatgtat | cgcaagtaat | aaggcatcat | 64080 |
| tttttttctg | cgtaaaacat | accaggaaaa | tggaacacaa | ctcaaaattt | ttcttttgtg | 64140 |
| aatagtgact | tgttcctttt | ctagacaact | ttccagtagt | ggttttgttt | ttgttgttta | 64200 |
| aatggcagac | tttaactctt | taaaaattta | attggagtgc | aggctttttg | taaaagtagg | 64260 |
| ttatttataa | agttctgtga | gtcctgaaca | tcacagacac | aatgtggtaa | catattattt | 64320 |
| ctggaaatat | aatagaggga | atctagttca | tcactagttt | gcttatttga | ttagaaatgc | 64380 |
| tgtgtgttac | gcttgggtcaa | gttacttttg | atcagttact | tttaacatgg | tattttacctg | 64440 |
| gcaactacac | actattctga | acctgccata | tgttcaaggc | acaaagttag | acaaatggag | 64500 |
| aactaaatga | gaagggtgtg | ataatttttag | aagagatatt | tgaggaaaaa | aaaaaaaaac | 64560 |
| tcagctctgg | agccaggagt | attttgtaaa | tatatgaggg | agattgactg | ttattatttt | 64620 |
| taagtatcat | tctaaagaga | aactctttga | aagtgtgtgt | gttttaaaaa | tttaatttgt | 64680 |
| gaattgaaat | ttttgtaagt | atacatttta | acacaaatct | gtacacatgt | tattattcct | 64740 |
| gttttttcag | aaataaatat | atagtaaatt | tttattggaa | tatcagaaga | aaaacttaac | 64800 |
| acaactgtct | taatataggt | taccgcagca | atttaccaat | tgttactaa | tgagttgcat | 64860 |
| aaaagcttgt | tagttgttca | cactagacat | agtgtttatt | tttcagccat | tacatcctga | 64920 |
| tcattctgac | tattgctaaa | ttctgttgtg | tactcctagt | aatctttata | ttcagattgg | 64980 |
| aaccaaccgt | ctgcttcttt | ctataatatt | tgccacagag | taatttcttg | ctcttaaacc | 65040 |
| ttggacttta | gggggcagtg | actaatagag | acacatttga | gagacacttg | gtcacttaca | 65100 |
| atctagcttt | tcattcttgt | taaacttgaa | ttcaagacag | ctagaaaagg | ttggtaacca | 65160 |
| aaagaagatt | ttgttatttt | aacttttatc | attgcctgcc | tcaaactaat | aaagggccac | 65220 |

sequece listing.TXT

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|--------------|--------------|--------------|-------------|--------------|-------------|-------|
| ttagacactt | gccaagggta | attaatTTTT | cttctttccc | ctgtccccct | cttcctcctc | 65280 |
| tgttgtaact | ggaagcttgc | aatccaatta | cattttttaaa | gagttaaagt | ctaccatgta | 65340 |
| aaaaacaaaa | acaaaatcac | tactggaaag | ttgtctagaa | aagcaacaag | tccatattca | 65400 |
| caaaagaaaa | attttaagtt | ggtgtccact | ttcctagtct | cttttattca | gaaaaaaaag | 65460 |
| atgccttatt | acttatgata | catttttaa | tgtcaccatg | acgcagaaaa | cagaatttga | 65520 |
| ttttatatat | atatgcacac | acacatagac | acatgtatat | acacatatatac | atgtaaatat | 65580 |
| atgtatatat | acatatatac | tcatatatac | atatataaac | atatatacat | gtatacatat | 65640 |
| gtatatgcat | atgtgtgtat | acgtatatatac | atgtgtgtac | atatatacat | atgtgtgtgc | 65700 |
| atatatacat | atgtgcatgt | atatacatat | acacgtatat | atgtgtatgt | atgtatacgt | 65760 |
| atatatatatac | gtatacatatac | atacacatgc | acaaccgtat | attacctttt | gatatacaagg | 65820 |
| atcttagacc | caacagtggg | aaattgctct | aaagagttga | cagtgatcat | taaagaatca | 65880 |
| ttgtagacat | tagtcagtct | ccaataaac | agtaaaatgc | tgatgaaaca | cttaactccc | 65940 |
| agtattctcg | agctctggat | aatgaatgtg | gtttaaaatt | aatttaacca | gatctaataa | 66000 |
| caaaaactaa | aaccctctaa | agtatttcat | gtcttgtgga | taaatctctt | atgtgttgct | 66060 |
| agaaacaacc | ttttattcca | aatctaattt | tctttccaac | tctgaggata | tgttgatata | 66120 |
| gattatttta | actcaacaag | tttgaggtag | tactactaacc | tgagtcatta | tgtgtatata | 66180 |
| aaattgcaat | catcccat | ccttttgag | ttttatagat | aagcttctta | cttgccctcc | 66240 |
| tgccccctca | tgtacata | ttaaattatc | tgtatacat | tttaaaagtt | attataaata | 66300 |
| attatataga | gaagtaattt | ggttatat | taatttat | tttcaaaagc | tcaaagtaca | 66360 |
| tttaaatcta | tacttaaacc | tagccagtcc | tgagaaacaa | ctttgagtca | caataaataa | 66420 |
| gagtttaaga | aataataagg | atcagttccg | aattacagt | acaaactaat | aaattttccc | 66480 |
| caaagcgtaa | taggttaaaa | tagcttctgc | tagaggagt | ggacaagtaa | agactctcca | 66540 |
| ctcagaacaa | ccaatgtgtt | cctaaatagt | tcttttctca | ttaattgaca | ttaatgtgga | 66600 |
| cttaatcact | cttctctact | gactctctgc | acttagagtc | ctgcttctct | acctttattg | 66660 |
| aaggtaggat | caagtcacct | ctaggaaatt | ccccagagt | atttaattcc | ctggctcaag | 66720 |
| taaatgttac | tattactgtt | cgttgcagat | gatctcatat | ggaaactcta | tctatctatc | 66780 |
| tatctatcta | tctatctatc | tatctatcta | tctatatatc | tatctatcta | atctataatg | 66840 |
| gtagaagtt | gtaacccgg | aatagaaa | gcctgattta | tagcactatc | agccccctta | 66900 |
| tctgagacat | tttctgttga | cattgatgta | taatcaggaa | aatgttccag | acctgcttta | 66960 |
| aaaagagggg | ggcactatgg | cttgtgttct | gattttaact | taatcaccat | tgattactct | 67020 |
| tctttcttag | ttactattcc | tcctagttgg | caggggtcca | gaactacatg | cagtactcta | 67080 |
| gaaattaaat | cctattagta | ctcaatataa | caggaggatc | gagagagagg | gattgtcttg | 67140 |
| tatttcctac | ttgttgtgct | actatttatg | cattgtgata | tcatgcatgc | ttgaactagt | 67200 |
| gattgaggag | aaaatagttc | taataggaat | tggcagttag | cccagaagtc | ctactcaatg | 67260 |

sequece listing.TXT

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| tttatttttc | ataattaaat | gatataattct | ttgttttctt | tttaaattta | aagatagcag | 67380 |
| tttgctcaat | tgttatgcc | aattggattt | tcaactgaag | gtaatttgag | atTTTTTaaa | 67440 |
| tcaatttgac | ccttcctgct | ttggcattaa | aactgcatat | tattttatat | gttttatata | 67500 |
| atacaagaat | gacaacaagg | tatgtcttta | tcacgaagaa | aaaaagaata | caccaacatt | 67560 |
| ctcagtagtt | tgtttctttc | cctttcattt | ccatcttttg | gaaaatttta | ctgctttttt | 67620 |
| ggttctccat | cacacctact | cttaccttgc | tctatgcaat | gaacacatgt | agatataaat | 67680 |
| atTTTTatgt | gtttttactg | cacagcacac | atgctcaatt | tggaacataa | gcttaaattgt | 67740 |
| caatttatga | aataagagtt | aaaaaagaaa | ggtaaaacaa | ttgaattaac | ttgactgttg | 67800 |
| tctaataaat | atgtactaat | agacaaaaca | atggagacat | ggttttaatg | ttgccactca | 67860 |
| catttaataa | ttgtaaactt | tatgatagaa | gagaatccta | aaatttctag | actgaaatta | 67920 |
| cttgtcaa | ctttctccca | agtttgccct | ttcaccttat | gattttataa | aatatactgt | 67980 |
| gttatacaag | gtttagctga | taggcttctg | aagccacaga | attcttcagg | atggaaattg | 68040 |
| cacttcatgg | agtaaagtga | agctatgtaa | atagtacatc | tccttccgca | agtttagtttt | 68100 |
| catttattcc | tgtttctttt | cttttttttt | ccagtcagtg | aggttcgttg | aagtcacctc | 68160 |
| gtatttcttt | ctcacttact | ccacctcatt | gaaaaaacat | caccagacta | aaatttctgt | 68220 |
| cagaatatct | actttcaccc | tttcttttca | cttgactgc | cacacccttt | atttccttag | 68280 |
| atctggatta | ttgcatgggt | ggctctccatg | cttccaaggt | ttttccttcc | tactcttcaa | 68340 |
| tcttgcatat | cctcctgtat | caacttatac | tatcataaca | ttaaatacct | tgctcaaaat | 68400 |
| ctcacaacca | atctcaagat | tttaagcttc | taaatattgt | gctcagttct | acttggtatc | 68460 |
| tctgaaataa | aatttgcctc | aggaagtgtg | aatatgctag | taccaatgt | caggtattct | 68520 |
| ctctcttcat | tcatatatcc | caactcaaga | tgcataatta | ctctgaatcc | tgactctttc | 68580 |
| aactggatga | catctttcct | ttctcaagct | tatctgatat | ttgatgttgc | tatcattttt | 68640 |
| tggcatttaa | tgatactgac | gtttttttaa | aagggttaata | ttggtatctt | tcctctttaa | 68700 |
| caaactctat | aaagtctttg | acatcaaaga | ctgtgtccaa | aggggtgctta | acatgtgttg | 68760 |
| tacacataat | agttgttcaa | caaatacttt | gaagattaat | ggacaattaa | taattatgat | 68820 |
| tataataaat | gggacatttt | agtgttaatta | aattagatgt | gcatttttaa | gaataataaa | 68880 |
| gcagtcctgg | aacatcctct | ccttattata | attaaatttg | aatttactgg | tctacttctt | 68940 |
| ctagtactat | aagacatgag | agcattttta | attcctactc | aattaagctt | taaatgtact | 69000 |
| ttacaattga | cagatataaa | tcacattgga | ataaaatatc | cttcttaatg | ttatatgaag | 69060 |
| tcagaattcc | ctataatata | aatcttgggt | aacaatttct | tttgcagggg | gaaacacccc | 69120 |
| cattttcaaa | acgatctttt | aaagtaattt | tgataaaact | tatcaaaggt | tgccgatttg | 69180 |
| tatcttttta | gttgacgtga | cattttttta | gtgtagatta | gaattctctg | tgataatcta | 69240 |
| attgtgctct | attgacctca | aaaagcaaga | gaatttgtgt | atttgtgtat | gtgtattttg | 69300 |
| acttcttgaa | tttttgaata | tatctttcaa | actcagtttc | tactacaaaa | caggaagcta | 69360 |

sequece listing.TXT

| | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
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| caagaacaaa | taaaaatcct | cttgatttct | ataa | actgta | gtgtattcgg | tatgtatgag | 69540 |
| aataaaatga | cttttaaaca | tttctttcag | agcg | gtaata | ataatgacat | tgattgttca | 69600 |
| catttctgca | aataaaatgg | tcattttattc | taaa | attaat | atagaaggtc | tttttcattt | 69660 |
| attgttaatt | tttgcataag | aatcatatc | ctga | attgca | cctgactaac | ccttaccatt | 69720 |
| gtcattaacc | aacagccatc | atagataaga | atattttgtg | cctttaaaat | gtacgtttta | | 69780 |
| gatatcacia | gttgcattaa | cagaaaaata | acaaaatcat | tatctattct | acatcagaag | | 69840 |
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| ttttttaaaa | ttgggtattgg | ttggaacatt | atcaatgtta | agggtactatg | tactctggat | | 69960 |
| ttaaataaat | atgtagtttt | tatgaagaga | agttggtaat | ttttacttga | aaaaatctgt | | 70020 |
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| agattttgtt | aacattataa | aatatatatg | ctttgcccc | aatgctgaat | ttataaactt | | 70140 |
| tgaaatgaaa | gcattgcttt | tgctaaaaat | gctttacaat | ttgggtctcaa | ttaatctcag | | 70200 |
| gtttttctga | aaataatgtt | ttagaaaatt | tttttattaa | aaacctcacc | tacgtatggg | | 70260 |
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| attgctatat | tttcttagaa | cttcagtggg | agaatttgaa | atactaagaa | cattcagcat | | 70380 |
| agtttttagaa | atactaatat | tatgttttat | tgtttttagag | gtcttaaaatt | ttttttaaat | | 70440 |
| agttttataaa | agttaatcag | tgtgaacaga | tactttatttc | tgaactttta | agcaaacata | | 70500 |
| taatctgaat | atttaggtga | ggatatttcag | ggtaaatgtt | taaatctgta | catttaggta | | 70560 |
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| atagtaataa | tcatgcta | aatcaataaga | agaataagga | ggaggataat | atctaataatg | | 70680 |
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| gtcaatacta | ctacaataac | tcttgctgcc | atggctcctg | ctactacttt | tcatgagata | | 71040 |
| gcaatgtaga | attaataata | aaacatat | ttt | tgaaccatac | aatgtaaac | ggacccttta | 71100 |
| tcaaacatgt | ctgtattagt | tctcacactg | ctaataaaga | catacccgag | actgggtaat | | 71160 |
| ttataaaagta | aaggagggtt | aatggactca | cagttccaca | tggctgggga | ggcctcacia | | 71220 |
| tcatggtgga | aggcaaagg | gaagcaagac | atatcttaca | tgggtggcagg | caagagcaca | | 71280 |
| tgtgcagggg | aactcctatt | tataaaatta | tcaaatctca | tgagacttat | tcactattac | | 71340 |
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sequenece listing.TXT

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| catcccttcc | caactgtccc | ccaaagtctt | aactcatttc | agcattaact | taaacgtcca | 71580 |
| cagtccaaag | cctcatctga | gacaaggcaa | gtcccttcta | cctatcagcc | tgtaaaatca | 71640 |
| aaagcaagtc | agttactttc | ttgatacaat | agggatacaa | gcattgggta | aatataccca | 71700 |
| ttccaaatgg | gagaaattgg | ccaaaatgaa | gccatgcagg | ccccatgcaa | gtttgaaatc | 71760 |
| cattaggata | gccaaatctt | aaagctctga | aatgatctcc | tttgactcca | tgtctcacat | 71820 |
| ccaggtcatg | ttcctataag | acgtgggttc | ccatagcctt | gggcagctcc | accctgtgg | 71880 |
| ctttgcaggg | tacagcccc | atcctggctg | ctttcacaga | ctggcactga | gtgtgcagct | 71940 |
| tttctagggtg | cacagtgcaa | actgtcagtg | aatctaccac | tctgggggtct | ggaggatggg | 72000 |
| ggccctcatc | tcacagctct | gctagacagt | gtgccagtg | ggactctgtg | tgagggtcc | 72060 |
| cacccacct | ttgccttttg | cactgcccta | gcagaggttc | tccatgagga | cctcaaccct | 72120 |
| aaagcaaact | tctgcctgga | catccagaaa | tttgcgtaca | tcctctgaaa | tctaggcaga | 72180 |
| ggttcccaa | tctaaattct | tgacttctgt | gccccaacag | gatcaacaca | atgtggcagc | 72240 |
| tgccaaggct | tggggcttga | aacctctgaa | gccacagcat | gagctgtacc | ttgacccttt | 72300 |
| ttatccatga | ctggagccgc | tgggatgcag | ggcaccaagt | ccctaggctg | cacacagcag | 72360 |
| gggggccctg | gaccaaccc | aggaaaccat | tttttctctc | taagcctctg | ggcctgtgaa | 72420 |
| ggaggggctg | ctgtgaaggt | cctcaacatg | ccctggagac | attttctcca | ttgtcttggg | 72480 |
| gattaacatt | ggggccctca | ttacttatgc | aaacttctgc | tgccagcttg | aatttctccc | 72540 |
| cagaaaatgg | gtttttcttt | tctatcacat | catcaggctg | caaattttcc | aaacttttat | 72600 |
| gctctgcttc | ctcttgaata | ctttgttgct | tagaaaattc | ttccacgaga | taccccaa | 72660 |
| catctctcaa | gttcaaagtt | ccacatattg | ctagggcatg | ggcaaaagcc | accagtttcc | 72720 |
| ttgctaaagc | acagcaagaa | tcacctttgc | tccagttccc | aacaaattcc | tcattctccat | 72780 |
| ctgagaccac | atcaccttg | acttttattg | tttatatcac | catcagcata | ttggtcaaag | 72840 |
| ccgttcaaca | agtctctagg | aggttccaaa | ttttcccaca | ttttcctgtc | ttctgagccc | 72900 |
| tccaaactgt | tccaacccat | gcctgttacc | caattccaaa | gttgcttcca | cattttcagg | 72960 |
| tatatattaca | acagcaccca | actcttggtg | ctaatttact | gtattagtca | attctcatgc | 73020 |
| tgctaataca | gacataacctg | agactgggta | atttataaag | aaaaacagat | tttatggact | 73080 |
| cacagttcca | catggctggg | gaggactcac | aattacgggtg | gaaggcaaag | gggaggcaag | 73140 |
| acatgtctga | tacagtggca | ggcaagagca | catgtgcaaa | tgaactcccc | tctataaaac | 73200 |
| catcagatct | agtgagat | attcacagtt | acaagaacag | cacgagaaat | accaccccc | 73260 |
| atgattcagt | tacctccac | cgggtttctc | ccaagactca | cggggattat | gggagctaca | 73320 |
| attcaaaatg | agatttgggt | ggagacacag | caaaccata | tcagtgtcat | atgaggaggt | 73380 |
| taacacttac | aaagactggc | tacttatact | ttttgttggg | ccactatgac | tggtgaaata | 73440 |
| taatacttat | aaaatataat | gattttttat | gtgtgaaaat | ttacctcttt | aaaactcagg | 73500 |

sequece listing.TXT

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| attttaactt | tcatcttcag | attcaatttt | gctgttttta | caacatatat | gtcagtgaaa | 73620 |
| aaatggccat | agttatatta | aaagttaaaa | atgaacaaaa | aactttatcc | caacctatta | 73680 |
| atttaatgat | aaatttggag | ttcaagggtt | aagctctacc | tttggcctaa | ctaaagaaat | 73740 |
| ttaggaggac | acattgcaaa | attcaagaat | tccttaaatt | atctaataat | taaatgctgt | 73800 |
| gtgttcattg | aacctttgta | ataaccccct | tataacttct | gaaattatat | tactaaataa | 73860 |
| cttctgggag | gctcgacata | tttcctgtta | atgagctcac | aaacaggaaa | caggcttaag | 73920 |
| aaaacaatac | tgtgaaatat | gaacactttt | aaaggattga | taggaaaaaa | taaagaataa | 73980 |
| aaccactgt | gatctctaag | attttattag | gttactccac | ctgcaaaaac | agatgttata | 74040 |
| tctattttcag | atcattttgt | cagtgatatt | ttgggcactt | tctaagtgat | aatcgatctt | 74100 |
| gatttttagaa | gttaaaaacc | tttcaagatt | taaagatctc | tctgctatac | actgctatga | 74160 |
| taacaccaca | tttttaagac | atatatcttt | ttgtaattaa | gattaatttt | tcatggaaaa | 74220 |
| tatcacttcc | atttttattt | taatattttt | aaaaagtaat | tgaggaatga | taatattcac | 74280 |
| taatttatat | aagttgggtt | tttttgaaac | tagactctag | ccttggatat | ttgttttaaa | 74340 |
| tatactagaa | ataaaacaat | aaggatttgg | ttacagcttg | gaaatagtca | attcatctaa | 74400 |
| ctacatgaat | atttgagtta | gccagaggta | gtctgaaatt | ggttctattt | acttattatt | 74460 |
| tgacccttta | attacataag | ttgtctctag | tccttttctc | ttttcctcct | ttccagtatt | 74520 |
| tcccattctt | ctgcttgaat | gaattcccaa | tctttctccc | ttcttagagc | ttgagagctt | 74580 |
| gaagccacta | gattgtattg | ggagtggag | tagcagaaac | cagaaaggca | cacatacctt | 74640 |
| gttgcccgtt | ttacctacca | caagcccaga | agaatacaga | taataaacct | tcattttcaa | 74700 |
| ctgtgaagtt | caccagggtg | aggttaaagt | tgaaaagtgt | atttaccatc | tgattaaaaa | 74760 |
| atggaccaa | tacccaaca | gacactttgc | caaataaaat | atgtagggtg | caagtaagta | 74820 |
| tatgaaaaga | tgctccacat | tgtatgtcat | caaggaaatg | caaattaaaa | caacaacgag | 74880 |
| atattgctgt | gtatctacta | tcagaatggc | caaataccag | aacactgaca | aaaaatgctg | 74940 |
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| gccacttccg | aagtcagttt | tgcagtttct | tacaaaacta | aacatattct | atatgatcag | 75060 |
| caattgtgct | cttctgcatc | ccaaggatt | gaaaacttat | atccacacaa | caatctgcat | 75120 |
| atgaatgttt | atagtagggt | taattataaa | tcccaaagca | tggaagcaac | caagatgtct | 75180 |
| ttcaatagat | aaatagataa | attgtggcat | atatagacaa | tggagtgtta | ttcagcatta | 75240 |
| aaatgaaatg | agctatcaaa | ctgtgaaaag | ataaggagga | aatgtaaatg | cgcattacta | 75300 |
| ggtgaaagaa | gcttatctaa | aaaagctaca | tactatatga | ttccaactgt | acaacatcct | 75360 |
| ggaaagagca | aaactatgga | gatgtaaaaa | gatcagtgat | tgtcaggggc | tcagggaggt | 75420 |
| agggatgtat | aggtggagca | cacagaactt | ttagggcagt | aaaactactt | tctatgatat | 75480 |
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sequece listing.TXT

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| acccccacct | cacaacaggc | cctggtatgt | gatgttcccc | ttcttgtgtc | catgtgttct | 75720 |
| cattgttcaa | ttcccaccta | tgagtgagaa | tatgcggtgt | ttggtttttt | gtccttgtga | 75780 |
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| aataaacata | cgtgtgcatg | tgtctttata | gcagcatggt | ttataatcct | ttgggtatat | 76020 |
| acccagtaat | gggatggctg | ggccaaatgg | tatttctagt | tctagatccc | tgaggaatcg | 76080 |
| ccacactgac | ttccacaatg | gttgaactag | tttacagacc | caccaacagt | gtaacagtgt | 76140 |
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sequece listing.TXT

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| tcagtttcca | tgcagttgag | cagttttgag | tgagtttctt | aatactgagt | tctagtttga | 77760 |
| ttgcactgtg | gtctgagaga | cagtttggtta | taattttctgt | tctttttacat | ttgctgagga | 77820 |
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| ggtctctaag | gacttgcttt | acgaatctgg | gtgctcctgt | attgggtgcg | tatacattta | 78120 |
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| taaaaactta | aagtattgat | acttagaata | ttcataacat | aatttgaaaa | gaaactgcct | 79260 |
| tgaaattact | cctaagttgc | agttcagtac | caccacaatt | tttgcttcaa | attcagacta | 79320 |
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| ctctttttat | ccttggccag | cacccaagaa | aactgtggaa | taaacattga | aaactaaagt | 79560 |
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sequenece listing.TXT

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| aaaatttttga | tgacatgttg | ctatatcttct | ataaaatgat | tatgcctgga | atgatgctta | 79860 |
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| acacacaatc | agttatatgt | actacagaga | gggcatgaaa | gttttcattt | cttactttac | 80100 |
| cccttaccac | atacaciaac | tgtaaaatgt | aacaagcctg | gagctttttat | gaatacttga | 80160 |
| tcaaagttaa | atttgatgtg | cactagaatg | tgttggttgt | cttcagggtca | gcatgtgggt | 80220 |
| ccagaggctt | gtatatcccc | tgcagtcctt | aaatcacagt | ctgttccaag | atatgcttca | 80280 |
| ttgcaattgc | aaggttctgc | agaaaacacc | aaatacagta | ttttcattaa | aatatttggt | 80340 |
| ttattaatat | ttaagatttt | caatagaatt | ccaagtatta | tagtaactgc | tgtaatgtat | 80400 |
| tttctcaacc | aaaaaatttt | tcagactttc | agcaactttg | gtacattttt | attttctttt | 80460 |
| tttctttgtt | ttttctttct | ctctctcttt | tttttttttt | tttttttttt | tttttttggt | 80520 |
| attgttgaga | cagagtttca | cccttggtgc | ccaggctgga | gtgcaatggt | gcaatctcag | 80580 |
| ctcactgcaa | cctctgcctc | ccatattcaa | gcaattctct | tgcctcagcc | tcctgagcag | 80640 |
| ctgggattac | aggcatgtgc | caccatgctc | cgctattttt | ttaaattttt | agtagagaca | 80700 |
| ggttttcgcc | atgttgacca | ggctgatctt | gaactcctga | cctcagatga | tctgcccgcc | 80760 |
| tcagcctccc | acagtgtctg | gattacaggc | ataagcaacc | atgcccggcc | acattttttat | 80820 |
| tttctatata | gtgtttgctt | ttacctaact | gaatactcag | ttatgtggga | cttgagagata | 80880 |
| aattctgtat | ttactagata | ataaatgttt | atttgtttagc | taaagtagaa | ttttagttgc | 80940 |
| caaaacattt | tttttcttta | gccaaattaa | attatcatag | agcagggttta | gagactctcc | 81000 |
| tcatataaac | caatattatg | tgtgactctg | gcaggataca | cttccttttag | attaaatata | 81060 |
| tgtcaatgga | tttgaatagc | aaaagtgggtg | aattcatttt | gtaaaataaa | cattttactta | 81120 |
| tttacttttt | agaaaaaaaa | tctataataa | tcctagtatg | actgtgtcct | tattaatagc | 81180 |
| tactgttttg | aaaaagaaaa | atgataatat | ttatgcttat | gaaaggataa | acattaactt | 81240 |
| ctgttttatca | taaagaacta | taaatttggc | agaattttact | actaacataa | tactatgctt | 81300 |
| cattctgcta | tggggaaaaa | tattaattgt | acatgcttca | attgatgtct | tccaattttt | 81360 |
| aagaaattat | tcacaaaaaa | ttaaaatcta | attaaatttag | acttgtaagg | atgaaatact | 81420 |
| caaagtagaa | actagaatat | gccaatcagt | gcattatatg | ttcattgagt | actctggcat | 81480 |
| ttctttttta | tcaacagaag | gtaacatatt | tactgataaa | actagcaaaa | aggcagagag | 81540 |
| agcaattaat | gttttgaaaa | ctttcagaaa | ctgatgaaca | aaagataata | atcataaatt | 81600 |
| actagttaat | tcagaagtat | agaattgagt | tttaagatgt | aagtatacaa | tcatacattg | 81660 |
| aactagttcc | taccacaaac | ttcagcaa | gtatagaagg | ttcatcttaa | gacctaaagt | 81720 |
| tactaatgct | aaaagaaata | tattattgaa | tgatcttata | accatttctc | tccttcctgt | 81780 |

sequece listing.TXT

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| aaatttttaa | tttcttgaag | gttttgtact | gtttcatatt | tattttactgt | ccaataatat | 81900 |
| ccagtccagc | tcagtggact | tactaaatat | ttgttaattt | gctgtactaa | gcacactcaa | 81960 |
| gttacacatg | ttcatatgta | ttggagggtg | tgcaaagttg | tatataggta | gtaatactta | 82020 |
| tttaaatacc | ttggaatcta | gcagaactca | atggatcaaa | gaaagtcaat | ggcttactca | 82080 |
| gtctatgagt | tcaaagttga | taggtaaatt | tcaaactgta | caaaataatt | atgtattgac | 82140 |
| agtgatgtaa | tctagactac | tgacacactc | atagtaaaat | aatgttgcta | gtagcacagt | 82200 |
| agcagagttt | aaattttgct | aaattaattg | tgtgcccaat | aacagctttc | atctttccta | 82260 |
| ttgtgtttac | attttattct | aagactggag | aaagttattt | ttaaaatttt | ggggtcgaat | 82320 |
| acatatattt | aagaaaatac | ataaagggtca | cttttaaaag | ttgcatttgg | gccaggcatg | 82380 |
| ctggctcacg | cttgtaatct | gagcactttg | agaggccgag | gcaccaggat | cacctgaggt | 82440 |
| caggactttg | agaccatact | ggccaacatg | gcaaaaaccc | atttctacta | aaaatacaaa | 82500 |
| aaattagcca | ggtgtggtgg | tgacatctg | taatcccagc | tactatggag | gctgaggcag | 82560 |
| gagaatcact | tgaaccagg | aggcagagat | tgacgtgagc | tgagaccgtg | ccactgcact | 82620 |
| ctatctagcc | tgggtgaaag | agcaagcctc | catctaataa | ataaataagt | aaataaataa | 82680 |
| ataaataaat | aaataaataa | ataaataaat | aaaagttgca | tttagatagt | ttaatagtga | 82740 |
| ccaagaggta | ttcatatatt | ttactgaaga | ccacatgctt | taaagtatat | tttcttctaa | 82800 |
| aggtaagaga | acaattttat | agtgttcaaa | tgacatttat | gttcatcatt | tcatattatc | 82860 |
| ctaagaatga | tcctttggaa | taagatggag | acaatattat | ctccacttat | agatgatgag | 82920 |
| attcagatta | aaaaactcag | cactgtacaa | tacaagccta | cagaaactga | atgactacag | 82980 |
| gttgacttga | atttttatct | atttgtcccc | aagtcctgta | ttttattctc | tgaaacatcc | 83040 |
| actattatct | atgataccga | aatgtttttg | acttataaaa | tgattataaa | tcttaattac | 83100 |
| cacctctcag | aatccgttgc | ttagttaata | tagaggtttt | ctttcttaaa | tttggtttca | 83160 |
| cttagctttg | tttttaataa | tgggaggaaa | agactgcaaa | tataacttat | gtttataaat | 83220 |
| ttaaaaataa | ccatcaggaa | gtgtaaacad | ttcattttact | gtgttttagtt | tctatcctta | 83280 |
| gatgagctcc | acaatggttt | ggacttactt | aatatactta | aaaacatttg | cacctcttgt | 83340 |
| tcagatcatt | ttaataaata | tttattgact | acctattcta | ggcagaggaa | ttgcaaagga | 83400 |
| aaatgcagtc | cttccttggt | tagaaaggta | atcatctaag | taaaatatat | atggaaaaag | 83460 |
| taaatacaat | acagcctggt | taagtgcaat | acaaacactg | gaaaatagga | aactattaac | 83520 |
| tttaaagagc | catataaggt | cagattgagg | aacaacactg | aagcaacatt | tagtaactgg | 83580 |
| gaacagaata | ttaacagtct | gtttatatga | ggatggcatc | atattatcac | aaactataag | 83640 |
| ttatcttaat | aggtaactat | ctaattaata | acagaaaaat | attctttatac | caaaagaaag | 83700 |
| attttagtta | ataatccaca | tttttaactg | gttagaaaatt | ataagctatt | cagcagcatc | 83760 |
| ttatttaatt | ttataggcat | actttgcaaa | taattttttt | gggggtatat | gtcaggatga | 83820 |

sequece listing.TXT

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| cctcaggagg | atgttgcttc | ttacaccag | gttatttggt | aaagtctttg | gatctatact | 83940 |
| taactgatga | cctagaagag | cgattctcaa | aagtgtgagt | cctggaccag | cagcaacagc | 84000 |
| atcaccggga | acttggtaga | aatgcacatt | ctcaggccac | tccctagacc | tactgaatca | 84060 |
| gaaaccctgg | ggttggtgct | cagcaattac | cctgcaggta | attctgatgc | atgctcaagt | 84120 |
| ttgagaacca | ctggcctaga | agaaatgaac | tactgcaact | tatgaggaat | catgagatcc | 84180 |
| agctcacttt | tgctcaatac | ctatcaaaaag | cttgtcccag | agtgattatg | gaggattgca | 84240 |
| tgcaggatac | acacttcatt | aaatcctcta | aaatctaact | ttgattaatt | aagtacaggg | 84300 |
| ttattgctga | tagcctcata | actctaccac | cattataatg | gatctatata | aaattgctta | 84360 |
| atatcagtag | cctaaattta | ggagcactat | agttttaaaa | atacttaatt | ggctacttta | 84420 |
| tttaacaatg | ttttagggat | gtcgttcagt | atcttttcca | gtgtttgcta | cctaagatcc | 84480 |
| cattggggta | aaaatataac | tcagatttca | ctgttaggaa | tagttctggt | tgtgagcaac | 84540 |
| ttacttcctt | tcatcttaca | caatgaacct | tgtaatttaa | ttatgatttt | ctcttcatac | 84600 |
| gagctgttag | aaagctcagc | attaaatttg | tggtcacct | ctagcaaata | tataacactt | 84660 |
| aatgatgtga | ctgtcctgat | tctaaaactt | tttctcttgg | ttttttactt | tttaaataaa | 84720 |
| aacacattta | acttaccttc | ttatttgtgc | gatgtaatgg | tcattttaag | tttcttttta | 84780 |
| acgacaagtt | gaaggattgc | ttaattaatt | aacaaataac | attaaaactt | atgtgcctat | 84840 |
| agaagatgct | gaactatacc | aaattttgcc | aggaaataga | attcaaaagg | attaatatag | 84900 |
| ttttgggtta | ataaaatgga | atcaaaaatg | taatgtcagc | agggcacggg | ggctcacgcc | 84960 |
| tgtaatccca | acactttggg | aggccgaggt | gggtggatca | cgaggtcagg | agatcgagac | 85020 |
| catcctggct | aacacggtga | aaccccgctc | ccactaaaaa | tacaaaaaat | tagccaggct | 85080 |
| tggtggcggg | cgctttag | tcccagctac | ttgggaggct | gaggcaggag | aatggcggtga | 85140 |
| accagggagg | cggagcttgc | agttagccga | gatcacgcaa | ctgccctcca | gtctgggcga | 85200 |
| cagagcaaga | ctccatctca | aaaaaaaaaa | aaaaaaaaag | aatgtaacgt | caataaagat | 85260 |
| actcttgctca | aaatgagaaa | ctgaaactta | tagtggtcca | aggatttttt | cgctcgtcagt | 85320 |
| gaggctagtt | aatggcagaa | ccaaggtgag | aatttatgtc | acctaacct | gatgtctaag | 85380 |
| tacttattcc | attgtttcat | ggggcttgaa | gtctttactg | ctatttaaaa | ttgtatatatt | 85440 |
| acttttaaaa | tattatgtat | acatatatta | atatatacaa | cccattcctt | ttagattatg | 85500 |
| tattcttcat | ttatatttta | tatgttatct | acatttaaaa | tctacagagg | aaaagtaggt | 85560 |
| ctttctttta | agaaatatca | ttatccacag | cattaagcat | tcagattcaa | agaaccttag | 85620 |
| ggatacagag | atttgaggga | ttagatgaat | aagttgaggc | gtctaagact | acttgcccaa | 85680 |
| agtaatacag | ctcttttagtg | gtagaatcag | ggctggaaca | taagcctctt | tactccttgt | 85740 |
| agtagagggt | ttgctaccat | agagaaagac | aaacaaacaa | gcattttttc | acataaaaag | 85800 |
| taattatgat | tcgtaatagt | gcaattaatg | caaagatggt | ttaagccagg | ataaagatgg | 85860 |
| ggaattgttg | aaactaattt | aattgtgcct | atctgttctt | gaagtagggc | ctgttcgttt | 85920 |

sequece listing.TXT

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| aggaggtgac | tgagttagct | ttacagtgat | aaatTTTTct | tgtagggaga | aattacatcc | 86040 |
| actaacttga | gctacttcag | catgaaattg | aaaaagaatc | atTTTgtctt | aatttacatt | 86100 |
| cttgattcaa | tgagaaaaat | gtgaattaac | ccaacagaac | tacagatgct | tgCctcagag | 86160 |
| actaaaggta | cactaaattg | gtatcattag | aagttcatca | atttaaacad | catccaattt | 86220 |
| attagaatag | attttaagcg | aggttattaa | ggtaggttac | gccaagcctg | tatattcatt | 86280 |
| tttctaaata | ttcatttggt | actttgggtc | aattttatta | TTTTtgatac | atctttatca | 86340 |
| atactccagt | gcggttttca | tttctcacct | aagctgtgca | catcatttct | taatcaaaat | 86400 |
| cactgggata | gtgctgcggt | tcactagcct | taggagctgc | tatttgCctt | gaataaatta | 86460 |
| catgaaaaca | tgtagattga | tagatgttgc | atgtcagaaa | agaagataac | tgtatcttct | 86520 |
| tcagcttact | aaaagggtcat | gcacacagag | tgataggaac | agccacagac | aactttgaga | 86580 |
| taaagtgtat | catgaaaagg | tgtgcaacct | tgaagctgtg | aaacatggac | ttgaaagaca | 86640 |
| ttttcttttc | aaatagaaaag | aaaatatatc | cagttacatt | taagtgttaa | agtaaaaata | 86700 |
| aaatatactt | tatcttaact | atattttcca | atattttagt | aatacacaat | ctctgctttt | 86760 |
| ctcatgtgat | taaaacggtg | aaattcataa | ttatttttaa | attgatcttt | taacttaaaa | 86820 |
| tcttgtaagg | atatggaaaa | atttgagaaa | atactttaat | tttataatac | acattttatat | 86880 |
| aacagtctta | gggaaatgaa | agaaatctac | atgtagataa | atgtttaata | ttaataaact | 86940 |
| ggaaacaagc | tttggtagcc | ttttcttatt | ttaacttaaa | tctccaacat | atctaattgt | 87000 |
| gtctagaaat | aatctgtgaa | ttgaggctta | tattttgttt | tctgtttcat | ttttcaggcc | 87060 |
| atcggcatat | ttctaaagtg | tggggtttaa | aactgcattt | acctaaatgt | ttatattaag | 87120 |
| acaaaacca | aagcacttaa | aataaacctc | tgcatgtaaa | tattgtaaat | ttttttgggtc | 87180 |
| attcagcata | cttaaggcat | atctgtgcta | atgttaagcc | ttatattaaa | aaggaaattt | 87240 |
| tgttctttta | tgaatattcc | atatatatgc | attcattaac | ctagctaagt | taaaaagaa | 87300 |
| actgacagtg | ttttggaagt | atagttttta | aagtaggatg | gaatgttttt | agtttcagaa | 87360 |
| aaaacactag | ccatgttctt | atctatccca | aattactttg | ttctccaaca | gagctgccaa | 87420 |
| actgtcaaac | tgtccagctt | cagtatataa | caaagattct | gttgtattgt | aaagatatct | 87480 |
| ataacaattt | ttatggaagg | ctgaaagtgt | ataagttcac | agttgtagcg | ataacatggc | 87540 |
| actcttcact | gtttggcttg | tttatattgg | cacagatccc | caaagtggag | actgacagag | 87600 |
| tcatgcagaa | atctggtatt | tgagttgaaa | tttacacact | ttaagtgatg | aactaaacag | 87660 |
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| tcttttccca | taaatgcaca | gattcctggg | atataaatga | ctgaattcat | caccaattca | 87780 |
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| tcagaagggg | aagtttacac | atatgattct | atttgtcctt | cattatttagc | acctgagtct | 87900 |
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sequece listing.TXT

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| ctagaaaatc | aataaacaac | aggagtga | ctcttttcct | ctgctcaggc | atggcacagc | 88080 |
| cgaaagtagc | acacagaaaa | accattgtgc | ttctttttgt | tttagtttat | tctttctgtg | 88140 |
| aagtttattg | gatccccctt | ctcctcaagc | aaaatatatc | ctgagtcagt | ctgctat | 88200 |
| ttatacat | ttcaatcatt | tttttggttc | aagtgcagc | aaatttgacc | tgacaaaata | 88260 |
| gtaccttctt | ttaat | aaaataagtt | aacttaggaa | tatatattta | tcataaagat | 88320 |
| tttaaaat | ttttattgta | ttaccatctg | aacatctgtg | gaaactcaga | cattagagta | 88380 |
| gaccagtgc | atctaaggat | gacaatggct | aaaccacact | aatggcaaag | ccaagatcaa | 88440 |
| tgatcctgat | tttagggtaa | tgggcatcta | ttctctaata | tatcttgata | taaaaatatt | 88500 |
| aaaagtagcc | tat | tatcatgctc | tatcaacatc | aaggatacat | ttattat | 88560 |
| taattttata | tttcattctt | gttttaatat | aatttatt | gttggaatta | ttatttaata | 88620 |
| taattattta | atataattta | ctttgttgga | at | tttaagttaa | ataagccaaa | 88680 |
| ttaatccacc | ttttacctgc | tg | tg | ttcccccaat | ctggacctca | 88740 |
| atatgaactt | tcatattatt | ttattcttct | gattgacttt | attaataaat | agcctgtgct | 88800 |
| ctttttgtcc | ccactgggtc | cttaatacaa | tattgctgct | tctctgttta | gtagccta | 88860 |
| tttaatgtag | ttaaaattat | atcaaaat | aatataaata | aattttactt | ttattgattt | 88920 |
| gtagatgaat | aataatgttc | attaaagaaa | agaccatata | tttctaaca | gcattaagaa | 88980 |
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| cataaaaaata | aaatattgga | aaaatat | gaaagcgatt | gcacagtttt | tgcaaatata | 89100 |
| tg | tttttgata | at | taaaagtaac | agagttaatt | tttactgtaa | 89160 |
| tctataaaaa | tcaattccat | ttctatgttt | ttctaattta | cttgtcaaaa | tcttacagtc | 89220 |
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| aaaaaagaaa | aagagtc | cagagaatgt | catgtcaaca | tgataagcat | ctggatgaaa | 89700 |
| actaagcaaa | ttatgcacat | agacagatgt | tttctgtata | aaatatgtgg | atagattttt | 89760 |
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| tcttttcct | atcacataga | gattaaatga | ctcagtaaaa | agcattggta | ttagatttta | 89880 |
| aaaatgctca | ggatctcact | cagccttgac | tttagtgctt | tttactaga | acaacctgaa | 89940 |
| ctactaagtc | tccagacaca | attagtttga | ctgcttttaa | ttaaaaaatt | actgatttgt | 90000 |
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sequece listing.TXT

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| ttttttggaa | taaaacctca | ctaatttata | tgataaatct | cagattaatt | aaacaagtta | 90180 |
| ttcattaaat | caagattata | gggggaagga | tttaaggaat | caaattgttt | tcaaacactt | 90240 |
| gaactaatgt | aggagcactc | attctcatat | aaataatgtg | ctaattacaa | attattcttt | 90300 |
| tctgttaatt | aagacaggtc | agcaggattt | ctacttggca | acacttagct | taagtgttca | 90360 |
| agttgctata | tgtacttgaa | attaatgaaa | ttgaattacc | tttaaaatgt | caggcttttc | 90420 |
| attattttct | gtgattattt | gcactcattc | cttttaatta | ttttaatgca | gaggggttta | 90480 |
| attttatatg | catatttatc | tatcaatttt | ataaattatt | tcagtagtat | ttagagatca | 90540 |
| aataataggt | gaagttagga | taatcactct | ccaaaaaaaa | aaaatcaaca | caaagtttt | 90600 |
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| cttttggggg | ggtcttcatt | tctaccattt | ttaaaaccac | gtcatagatg | gcaggtagat | 90720 |
| attctattat | gtgatctata | gggtttttgt | gtgttcagaa | ggagtctaca | gttacacctc | 90780 |
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| gtagttggga | acatagtagt | agacctgctg | tatatttcta | tgctggttcc | aaactccagc | 90900 |
| aatctcattc | tacttacttt | tttgtagcgt | actgtttctt | gaacatgtct | ttatatatac | 90960 |
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| caaagtatg | tagcacttgg | cagatgctca | ataaatactt | gcttagtgaa | tgaacaaata | 91140 |
| tattgacaag | aaaacagtaa | tgattattgt | ttattcatac | taaggagaca | tgaacaatga | 91200 |
| cactgagcaa | tttaccact | aatcaagatc | agttacttat | acattgctat | atgaactttg | 91260 |
| gcaagattac | gtgaatctga | cctaagtttt | ctgccttttt | tgtttggttg | tcttatttct | 91320 |
| actttgtctt | tatgttagca | taattcttgc | aactccaaaa | tgtcttcata | ttttttcata | 91380 |
| aaactgaggt | cttaatcatg | gtactcttgt | atcaattata | taagtatact | ttcatggaaa | 91440 |
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| gattatcaaa | ttgtattaat | cactttcatg | tcacctcttt | gaatagttat | ttgatattta | 91560 |
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| gttatacca | atatttcaca | tttattgcaa | cctaatttaa | atgtatataa | tattgtttca | 91740 |
| aatattgtac | aaattcaaag | ttcacaaggc | tccagaactg | gcctgatttc | attgattaag | 91800 |
| tgctcagtgg | ttggcactca | ctagggcttc | ctcagtgagt | gatggaacat | tgaatgtaag | 91860 |
| aaaagctttg | aggagatata | taagctataa | gctatatatta | ttgtgggcta | atgtatgtct | 91920 |
| gcttgttgta | ggagttaaag | tcttcgtaga | atattgaatt | atttttcata | tcaggccttt | 91980 |
| aaaagtaaaa | agagctgtta | aggataaaat | ataaaatggt | tcctaatagct | atattttaaca | 92040 |
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sequenece listing.TXT

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| ccccccaaa | taaacaaaa | acaaactttc | gtatcaataa | ctaagaagcc | gtgtatctaa | 92220 |
| ttagacaaaa | tggaatct | atctatccta | cctgatttct | ttcttgtcag | gagtctaaaa | 92280 |
| ttctccattg | atttccttaa | agccatctta | gcaagtagaa | gtgaagctat | tctaaataat | 92340 |
| gttgcaatga | caactactta | tttattcata | attgtgatga | tgtgttttcc | aggatgcaat | 92400 |
| ttcactattg | tgtacataga | gtgatgatac | ttattttatt | tgaccaaaag | ttgaaattga | 92460 |
| acttgatctt | ggatctgtaa | atatattcct | tatctcaagg | ataatgagat | gttaaaaact | 92520 |
| gagaaataaa | caaattagga | aattaatttt | ttcgcaaaaa | aatgaaaagt | ctggaagtca | 92580 |
| ttgcttgctg | gcattgactc | aatgactgaa | ggatgtcaca | gctgaagttt | tggttaataat | 92640 |
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| ggacatattt | ctcacctga | aagcatacat | actttttaaa | aaacatattt | tattaaataa | 93120 |
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sequece listing.TXT

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| ttgttgccca | ggctggagtg | caataagttt | taaaaggttt | atttggggtg | ctgctctgtg | 94380 |
| caaaatattt | tgaaggaaat | ggaaagagga | aaatggaaaa | aaagagaaag | gtattatgaa | 94440 |
| agtccagaga | agaaacgata | ggagcttgaa | ctaggctgga | tgtagtagaa | gtggtataaa | 94500 |
| gttttataaa | ttctgggtac | attttgaagg | ttttgttaat | ttttgatagg | ttgatgtgag | 94560 |
| tatgtcggag | ataaagagga | atcaaggatg | atcgcaacat | ttgtgggttag | tccaaattag | 94620 |
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| ggggccttgt | aataaggagt | tcagttgata | aattattaaa | tttcataatt | ttatttgaga | 94740 |
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| ggtcagaaa | ctgagaaata | gcagccagtg | tacacagtga | taagaaaaag | gaaatgtaga | 95040 |
| tgagaactgg | gaaaagactg | acattaaatg | atgagcaaag | agaagctcac | aatgcatttt | 95100 |
| tgtccaaact | actttcatgg | cttattagaa | gtgagattca | tgttgctata | tcctattttg | 95160 |
| aactttcaca | tttaaagtaa | gtgtacagaa | gagacctcct | gaatgaggtg | aatcaaaatt | 95220 |
| ttcatctcag | tgtaattgag | ctgtcctgat | tgctggtaca | gacagaagat | tttcattttc | 95280 |
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| tatacacacc | atggaatact | atgcagccat | gaaaaaggat | gcattcatgt | tctttgcagg | 96060 |
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sequenece listing.TXT

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| ttaaaaaaca | aaaagtatct | actgacattt | ctcgatatct | cttgatacaa | actggttgtg | 96420 |
| tgctgctgca | atgaaaaaag | aaaggaatca | aaaaaagact | cttgcaaagg | aaagcttttg | 96480 |
| catcagttag | tgtgagcatt | gggggaagga | ataatttcac | tggagagcca | aagactagcc | 96540 |
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| taagttaa | tttagggagg | aggtaatggc | tagacagtta | tactacaaaa | tacaaatttg | 96660 |
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| tatccttgat | attgtgaagg | atattgtggt | atttccaacc | aacttttgct | ttcattat | 96780 |
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| attctcaaaa | gcttatttat | aaccataaca | tgacttaagt | aataactaaca | gagtaatgtc | 97440 |
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sequece listing.TXT

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sequenece listing.TXT

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| agtcccatag | acagggtttt | gtttgtttgt | ttagttttgt | ttattggggg | tttttaaatt | 2400 |
| aataaacata | gaaatggaca | cttcttttct | gaaagcttga | aacttgcatt | tgttttatct | 2460 |
| ttttgtttgc | ttgtttgaga | cagagtcttg | ccctgggtgtc | cagtctggag | tgcagtggca | 2520 |
| tgatctcagc | tcactgcagc | ctctacctcc | caggctcaag | tcctctgccc | acctcagatt | 2580 |
| ccaagtagt | tgggaccaca | ggtgcatgcc | actatgcctg | gctaattgtt | gtatTTTTTT | 2640 |
| ttgtagagat | ggagtttcac | catgttggcc | aggctgggtct | ggaactcttg | agctcaagca | 2700 |
| atctgcctgc | ctcagcctcc | caaagtgtct | agattacagg | catgcgccac | tgcgcccagc | 2760 |
| cacattttgt | tgatctttat | ctcagttcct | tcctcaagaa | aggatgcca | gacctctcaa | 2820 |
| caagtatcaa | agagctgaaa | ctcaccagat | tactgcatct | agacagtgat | atgccagacc | 2880 |
| cctcattctt | cgttattgtt | tccttaccct | tccttagttc | ctgttttctc | atacgtagtt | 2940 |
| aacatttctt | ccctgttata | taaaccctta | attttagtca | gtgaggaagg | tgaatttgac | 3000 |
| actgatgtcc | catctccttg | gctgcagcat | ctgattaaag | ccttcttctt | tgacaataat | 3060 |
| cattgtctca | gtgattgact | ttttgggtgg | taagcagcaa | gacatagatg | gaactcctgg | 3120 |
| tgttttggta | acagcatttc | atcaataatt | gtgttcaaat | gcttctcctt | acttataaca | 3180 |
| ccctaattct | tttcttcctc | ctatcagagt | aatccctgct | ttaaggccta | tctcttccat | 3240 |
| caagcctttt | atgatggcct | ggtccttaga | acttactgcc | gcccctcaac | tttcatagca | 3300 |
| agtcccttgt | atatcacagt | atattgtttt | ccttagaata | tattctgatt | ccccagttgg | 3360 |
| gttgcaagct | ttctgagagc | aagaacacct | ctccagagaa | actaagaacc | agctatcttg | 3420 |
| cctcattctc | tggagtctta | atgatacata | gctctaatag | ttttgtttct | cagtatctta | 3480 |
| tatttaaaag | gcaatttatc | cattttatgt | gaaacttaca | tagtggaat | ataaactatg | 3540 |
| ttagtatcat | ggttaaaagc | atgaactcta | gagtcagaac | atatgtgttt | agtccaggct | 3600 |
| ttcctctta | cggctatgtg | aacttaattc | atctctttgc | tttggtttct | tcctctgtaa | 3660 |
| tatgggagta | ataatagtat | ttccctcata | gatttgtttg | gggaattaaa | tgagatagtt | 3720 |
| gtgcctgaaa | gtaataagta | ttcagtaaag | gttagctatt | gttgttatta | ttaatataata | 3780 |
| atatttgttg | cacatttgat | atattagaat | gttggacatt | cataacagta | ttttaggaat | 3840 |
| ttccaaagag | agcaaatgac | agcaagaaac | aattgaattg | gaaaaataaa | atcaaaccaca | 3900 |
| aatatttgtt | gaactgtaca | tttggttgga | cttcagaata | aattaaaagg | ataggcaaaa | 3960 |

sequenece listing.TXT

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| tcccagatga | ttgatcaagt | gctatagatg | tagctagata | catcaggagt | ttaagatcct | 4080 |
| ttgtcatgat | gataggaaaa | aatgacattg | ttattaaatc | tatcactttg | gtacacgcct | 4140 |
| gcccgtaaac | taacgtctac | cagacattca | caaattctta | atttgatgtc | atactagtca | 4200 |
| attgtgcttc | tcattgatgg | ataataatgg | aaatctatat | ctatattata | tagatgtata | 4260 |
| catatagtgt | acttctgcta | attatttcct | attcaggatt | atattttactt | ggctcttttg | 4320 |
| gtagttccat | caccaactat | tccttcattt | ccttgatttt | tatttctgaa | ttttaggatt | 4380 |
| tttataccag | tgaactaagc | tgtattttaag | taccatggga | tatgatgggt | atgttccaaa | 4440 |
| attgaatgat | tgtctctaga | gcaacttata | atctactggg | aagatagaaa | aaccaccaaa | 4500 |
| aactagctag | ttatttgatt | tttaaaagtc | aatgatatat | atacagcctt | cattcaccta | 4560 |
| ttgactcaat | cgacaaatat | ttgttgagtg | tctcttatgt | acccacact | ccgttagtta | 4620 |
| caagagacac | aaaacaaagt | tgactgtagt | cctgtcaaaa | gcttagttta | tctgggtaaa | 4680 |
| cagacattta | aaaaggaact | gaaataactg | taggaagtac | tatgccagag | gaaataccag | 4740 |
| gtgctgtgac | attaattaat | aacttgagg | tatactaata | cgtagaatag | attacttgaa | 4800 |
| tgattaaaa | ccttgaatca | agatgaagct | aatccaggaa | gatgtatgaa | atgttaagtt | 4860 |
| ttaaatagtg | ttttgaagga | agggagaggt | gaatgactag | gatgaaagaa | acttcctttc | 4920 |
| ttcttttttt | tttttttgac | agattaacat | aaagcttttag | atagtattga | gaatcagctc | 4980 |
| taatgaataa | tcctagctca | tcttttagaa | atggttttca | tttttccctt | tgttggttgt | 5040 |
| cttaactcag | tctattatct | gctttgccat | tttgacaata | gtcatcatcg | atgaactttc | 5100 |
| gttgagtttg | tgcaaggcag | tacactaagc | aggagagaaa | gaggaagagg | taaatatttt | 5160 |
| ttgcgggcac | cgacttggt | gctgtgtttt | tcttgttttt | tagcattatg | tgctagttct | 5220 |
| ttctaacttt | tttcagacct | cttataggtc | tttatcttat | ctgagattta | tgttcctggt | 5280 |
| ttcctatctt | cacatcta | gttttaata | ttccatgagc | ctattaaaaa | tattgtctgt | 5340 |
| aatccatctt | ctatttatct | ttaatagtca | tacaaatacc | aacttgtttt | ttccccatt | 5400 |
| cacttgtttg | cccttttctc | ttttttctta | tcaccactct | ggtttttcta | tgcactttcc | 5460 |
| aactacactg | aaatttgagg | tgatctcttc | cagtcatgtg | gggatatgca | tttatataca | 5520 |
| gaagctcctt | gacatgtgat | gggattatct | ctgataagcc | catttttaagt | tgaaaatatt | 5580 |
| attagtcctt | taatacatct | agcctactgc | acatcatagc | ttaacatagc | ctactttaat | 5640 |
| tgtgctcaga | acactttctt | tagcctacag | ttgggcaaaa | tcatgtagca | cacactacac | 5700 |
| catagagtat | tggttgttta | ccctcagaga | gtgcatgggt | cactggcagc | tgctgctccc | 5760 |
| tgccactgcc | cagcatcatg | agaaattatt | ttactaacta | tcactagcct | gggaagagat | 5820 |
| caaaattcaa | agtatggctt | cttctgaata | tgtattcagt | agaatacaca | ccatgtaaag | 5880 |
| tcaaaaaatt | gttaatcaaa | ccatcctaag | tcagggtactg | gctgtactgt | tttttaaagc | 5940 |
| atgctacttt | ctctatttta | gtttttta | cctgaatttt | tttcgaaaag | tttatttttg | 6000 |
| tcatgtaatt | gacttacaga | agaaagggtta | atctgaatga | tcaaggggtg | ttaatttggtg | 6060 |

sequece listing.TXT

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| aagatgtttc | caggggtgta | tggaaccttt | tgaagttaag | tgtggaattc | actagtgtat | 6180 |
| attaactatg | gcacctggct | aaacatgtta | ttgcattcag | gttttttaat | ttgtgtgaat | 6240 |
| tctaataggt | atgaatgggt | caacatacat | agaagtttga | ctttattaat | gagcctcatc | 6300 |
| ttttgtaata | ggaaattaaa | ttcatgactt | aattcatcat | tagcaatgga | aaacataatt | 6360 |
| agtatcattg | ttatctttgt | tacttgcata | tttttctaaa | atataaggca | ataactcttg | 6420 |
| ttttaaaata | agattagtgt | cattattata | ggtttttaaa | tgctaagtat | ctcatatgga | 6480 |
| agagtagaat | tcataaagac | atataaaatg | ttgtgtgctc | acttaaagaa | atgattttatt | 6540 |
| tcctccccta | aaattacatg | aagtaaaatt | atgagacatg | ttagtgttgg | ttaatatttt | 6600 |
| caaataatttc | aaaatagtta | atatataatt | acacacagtt | taatattact | atgctcaaat | 6660 |
| tcagtcattg | aatataattt | ttgtatgatg | gtagcattat | ttaagatgat | taagcattac | 6720 |
| aacttcaaca | gtttaaatcc | acaagagata | tgaaagtaaa | aatcagattt | taaaatacat | 6780 |
| tcttcattta | gcatcagggg | tactatagtc | tgttttttat | tacttatgtc | agttttactag | 6840 |
| taataaacac | atntagcatt | tcagcttctt | gcaacctttc | agtttaatta | gttagagact | 6900 |
| gagaaaaaca | ggctttgtat | gctaaaggga | tttctgcaat | gatggattaa | atgccaaaat | 6960 |
| aatgaaacca | cacatcttaa | aaaatatact | gaagaataga | tgttttctga | tgaatttcca | 7020 |
| caaaatatca | tatttttaaa | atactttcag | caattcatag | tattactttt | taatctactg | 7080 |
| tagaagcacc | atgactctag | tcttttgtag | ctcattagca | atctctttta | tgagtttttt | 7140 |
| gggtgtgatg | atagttaaag | taacagacaa | atgacagatt | gtttgccttt | aatgattttcc | 7200 |
| ctgtttcaag | cccattacaa | agcaattaga | aatctgacag | catttttact | ctgcattact | 7260 |
| gatcgtctga | agtgatgagg | aatgagaggt | ggatgaatatt | aattgtatat | tttcatatga | 7320 |
| ttatcataaa | ttactacctt | gtctgatgtg | ctgcagggtga | agcgggagca | ttagagaaag | 7380 |
| gcagtcagat | acattaattt | caaacactgt | atgttttttt | aaaaaatctt | tgtagtataa | 7440 |
| atcctagtct | gcaatgttag | tctctatgaa | tattcctcta | tcactattaa | attaactggt | 7500 |
| tttagtttct | atctatattt | gggacaactg | aagttttctt | atgtgaatac | aagaaaagga | 7560 |
| aaggttattc | catagtacag | tgtacctgta | tctatttaaa | tttagaatct | taaaaatctg | 7620 |
| tgaattttgt | tgattttatat | attacatata | tatacataat | attcagaaat | ttcagtatag | 7680 |
| agaaagatac | tcttagaaat | aggtcatagt | ttagcgttag | gctaaagtca | ggtaatcctg | 7740 |
| caaaagaaga | ggtaggaaaag | tgtagccaaa | tgtagaatga | gatattttcta | ggccctctgt | 7800 |
| aacagttctt | ttgatcttag | cccacaatat | atcctgtttt | tctagtttct | tgccctcaggt | 7860 |
| agatgtagct | aagactgtca | tcaggatgca | agtgcgtgtg | ttacttagtt | cctgcgttgg | 7920 |
| atgttgagca | aatgctgggtc | cagaaactag | atacagtaag | aattagcaag | cctagagcat | 7980 |
| tttaaataat | taggggctgg | gtgcgctggc | tcacgcctgt | aatcccagca | ctttgggagg | 8040 |
| ctgaggtggg | tggatcactc | gaggtcagga | gtttgagacc | agcctggcca | acatggtgaa | 8100 |

sequenece listing.TXT

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|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| accacatctc | tactaaaaat | acaaaaatta | gccgggtgtg | gtggtgcatg | cctgtagtgc | 8160 |
| cagctactca | gaggctgagg | caggagaatg | gcttgaacct | gggaggcaga | ggttgcagtg | 8220 |
| agttgagatc | acaccactgc | actccagcct | gggcaacagg | gcaagactct | tgtcttaaaa | 8280 |
| aaaaagatga | gaaatatatt | tggttcaatt | ttactaacgt | aaattagttt | atattttact | 8340 |
| gtctctctaa | agataggtat | tggtaatcga | catgtaatga | gttgagttga | atttctttgt | 8400 |
| gctaattgagg | ctgtgtcttc | attcagtcct | tccttttgga | cctttttgct | ctggttttat | 8460 |
| ctgtggaatt | ccatcccttg | cagatgcatg | ccatcttgga | tccatcttta | tggatcttta | 8520 |
| tttatgaaga | aggtaatatg | attataaatc | aataaaatgg | atttttttaca | tgctacttta | 8580 |
| aaaccgttct | ttttatttta | tattcaattg | tatgtgtttg | cattttatat | atacttaaag | 8640 |
| taaaagttag | gccttcacag | atgaactttt | tgggttttgg | aaagttgaga | accatctgaa | 8700 |
| attcattaca | tatttactga | gggaaaagtt | aggtatcata | atgaaaaagc | aaataatcag | 8760 |
| taaaagggat | tcagtctcca | gcatttagta | gcccaattta | ataatcttgg | tactggctaa | 8820 |
| gatttccaaa | tgtattaatt | actctccata | tctgatgacc | tcccaagatt | ttgcttcaca | 8880 |
| gggacctcct | ttatctatag | agtaggtcca | actaacataa | aacttacgga | atcagaatga | 8940 |
| tgattccaaa | tcccctcaac | tcttttctga | tggtattcct | taccttagtg | ttagtctaga | 9000 |
| cttttaagtc | aatcctttct | acagctccac | caattatcct | ttgcttctct | ttccacttct | 9060 |
| aacataccac | taatcaacac | agttacagta | gttctccctt | atcagtgggt | tcagttaacc | 9120 |
| atggttacct | gcagtttgaa | aataggttaag | tattgtaaaa | tgagatattt | tgagacagag | 9180 |
| aacagagtca | cataacttta | ttacagtata | ttcttataat | tgttctattt | tattattagt | 9240 |
| tatttgctgt | taatctctta | ctgtggctaa | tttataagtt | aaactttatc | atatgtgtat | 9300 |
| atgataggaa | aaaacatagt | atatataggg | tttgatacta | tactgtatac | acttttaggc | 9360 |
| atccactggg | ggttcttgga | tcatatccct | tgcagataag | cagaggaaga | aatactgtac | 9420 |
| ttgacttttg | gccaaagtct | ccacatcttt | cttttagagga | gttggttttg | aaaacttaca | 9480 |
| tattttttcc | tatgacagag | aacagctatc | catacctcgg | tatgtattaa | taggaacctg | 9540 |
| ggctgtctaa | ctgtggcatt | gttaacaaac | cagtagctga | ggaagcaaac | aatctgaaac | 9600 |
| tgtaagttaa | aaatagctgt | atcttctctg | ataacaaaga | gtctctggaa | tactttctac | 9660 |
| catgtctaga | catgttttct | tggacaattc | aggaggcaga | cctaaatata | aaaataggaa | 9720 |
| ctaacatttt | aaattaacaa | gcacttttac | atattgcgta | tgttttcatt | tgatcctttt | 9780 |
| aacagtcctg | tgaggtaggt | aaggcagata | ccattatcat | acacataaag | gaatgagact | 9840 |
| gggaagagac | agaggcaaaa | attcaaacc | aagtcagttg | agttcagatc | tgttgcattt | 9900 |
| tctgccatac | caccttagct | cttatatgta | aaagctcttc | tattaaatga | ctaaaatttt | 9960 |
| agagacagag | aacttttagag | tttctccctt | ttatcagtat | ctcacacccc | cacatttttag | 10020 |
| acaggtaggg | aaaatgtaca | gaaaagagtt | taggattttac | cacaggtctg | gcctcaaact | 10080 |
| aggaccagaa | cttcagaact | ttgtgatcca | gtcccagtg | tctttgcatt | acagtgcaact | 10140 |
| acttccatgt | ttcctgaagc | tacagggaca | ttttctttct | ttttttttct | gttatacttt | 10200 |

sequece listing.TXT

| | | | | | | |
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| aagttttagg | gtacatgtgc | acaatgtgca | ggttagttac | atatgtatac | atgtgccatg | 10260 |
| ctggtgcgct | gcaccacta | actcgtcatc | tagcattagg | tatatctccc | aatgctatcc | 10320 |
| cttccccctc | ccccacccc | acaacagtcc | ccagaggggtg | atgttcccct | tcctgtgtcc | 10380 |
| atgtgttctc | attgttcaat | tcccacctat | gagtgagaat | atgcggtggt | tggttttttg | 10440 |
| ttcttgcgat | agtttaccga | gaatgatgat | ttccaatttc | atccatgtca | caacaaagga | 10500 |
| cgtgaactca | tcatttttta | tggctgcata | gtattccatg | gtgtatatgt | gccacatttt | 10560 |
| cttaatccag | tctatcattg | ttggacattt | gggttggttc | caagtctttg | ctattgtgaa | 10620 |
| tagtgccaca | ataaacatac | gtgtgcgtgt | gtctttatag | cagcatgatt | tatagtcctt | 10680 |
| tgggtatata | cccagtaatg | ggatggctgg | gtcaaagggt | atttctagtt | ccagatccct | 10740 |
| gaggaatcgc | cacactgact | cccacaatgg | tggaactagt | ttacagtccc | accaacagtg | 10800 |
| taatagtgtt | cctatttctc | cacatcctct | ctagcacctg | ttgtttcctg | actttttaat | 10860 |
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| gatggccagt | gatggtgagc | atttttcatg | tgtttttttg | ctgcataaat | gtcttctttt | 10980 |
| gagaagtgtc | tgttcatatc | ctttgcccac | tttttgatgg | ggttgttttt | ttcttgtaaa | 11040 |
| tttgtttgag | ttctttgtgg | attctggata | ttagcccttt | gtcagatgag | taggttgcaa | 11100 |
| aaattttgtc | ccatttttga | ggttgcctgt | tcactctgat | ggtagtttct | tttgctgtgc | 11160 |
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| agttttccca | gcaccattta | ttaaataggg | aatcctttcc | ccattgcttg | ttttcctcag | 11460 |
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| attctgtgaa | gaaagtcatt | ggtagcttga | tggggatggc | attgaatcta | taaattacct | 11760 |
| tgggcagtat | ggccattttc | acggtattga | ttcttcctac | ccatgagcat | ggaatgttct | 11820 |
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| gtccttcaca | tcccttgtaa | gttggaattcc | taggtatttt | attctctttg | aagcaattgt | 11940 |
| gaatgggagt | tcactcatga | tttggtcttc | tgtttgtctg | ttattggtgt | ataagaatgc | 12000 |
| ttgtgatttt | tgtacactga | ttttgtatcc | tgagactttg | ctgaagttgc | ttatcagctt | 12060 |
| aaggagattt | tggtctgaga | caatgggggt | ttctagatat | acaatcatgt | catctgcaaa | 12120 |
| cagtgacaat | ttgacttcct | cttttcctaa | ttgaataccc | tttatttcct | tctcctgcgt | 12180 |
| aattgccctg | gccagaactt | ccaacactat | gttgaatagg | agtgggtgaga | gagggcatcc | 12240 |

sequenece listing.TXT

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| ggctgtgggt | ttgtcataga | tagctcttat | tattttgaga | tacgtcccat | caatacctaa | 12360 |
| tttattgaga | gttttttagca | tgaagcgtag | ttgaattttg | tcaaaggcct | tttctgcatc | 12420 |
| tattgagata | atcatgtggg | ttttgtcttt | ggttctgttt | atatgctgga | ttacatttat | 12480 |
| tgatttgcgt | atattgaacc | agccttgcat | cccagggatg | aagcccactt | gatcatgggtg | 12540 |
| gataagcttt | ttgatgtgct | gctggattca | gtttgccagt | attttattga | ggatttttagc | 12600 |
| atcaatgttc | atcagggata | ttgggtctaaa | attctctttt | ttggttgtgt | ctctgcccgg | 12660 |
| ctttggatc | aggatgatgc | tgccctcata | aaatgagtta | gggaggattc | cctctttttc | 12720 |
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| ttcggctgtg | aatccatctg | gtcctgcact | ctttttgggt | ggtaagctat | tgattattgc | 12840 |
| cacaatttca | gctcctgttg | ttgggtctatt | cagagattca | acttcttcct | ggtttagtct | 12900 |
| tgggagagt | tatgtgtcaa | ggaatttatc | catttcttct | agattttcta | gtttatttgc | 12960 |
| gtagagggtg | ttgtagtatt | ctctgatggg | agtttgtatt | tctgtgggat | cagtgggtgat | 13020 |
| atccccttta | tcatttttta | ttgcgtctat | ttgattcttc | tctctttttt | tctttattag | 13080 |
| tcttgctagc | ggcttatcaa | ttttgttgat | cctttcaaaa | aaccagctcc | tggattcatt | 13140 |
| aattttttga | agggtttttt | gtgtctctat | ttccttcagt | tctgctctga | tttttagttat | 13200 |
| ttcttgccct | ctggtagctt | ttgaatgtgt | ttgctcttgc | ttttctagtt | cttttaattg | 13260 |
| tgatgttagg | gtgtcaattt | tggatctttc | ctgctttctc | ttgtgggcat | ttagtgtctat | 13320 |
| aaatttccct | ctacatactg | ctttgaatgt | gtcccagaca | ttctgggtgtg | ttgtgtcttt | 13380 |
| gttctcgttg | gtttcaaaga | acatctttat | ttctgccttc | atttcgttat | gtaccagta | 13440 |
| gtcattcagg | agcaggttgt | tcagtttcca | tgtagttgag | cggttttgag | tgagtttctt | 13500 |
| aatcctgagt | tctagtttct | ttagctacat | tttcttcagt | tattaactta | aataaattat | 13560 |
| ttgttagagt | cttggcttgg | taaacataaa | aattccccct | tgttcttttt | ttgttgttgt | 13620 |
| tgttataaaa | taaagtcagt | tttatctggc | atagcttttt | tatactgtag | ctatctcctc | 13680 |
| taaacattct | ggaatgacct | aaggtgaagag | gggaagaaaa | gagtgtgact | cacttgtttt | 13740 |
| gagagagctg | agagaagggc | gattgggaat | agttactcat | tcccatttcc | ttttggatat | 13800 |
| accggtacaa | ataacacctt | ggggcactct | tcccttacta | gcctgggagc | atccctgatt | 13860 |
| gaatgtttcc | ctgggatgga | ggcttagaaa | gaaagttaag | atcgtcagcc | aggtgcggta | 13920 |
| gctcccacca | gtagtcccag | caccttggga | ggtcgaggca | ggcagatcac | ttgaggtcgg | 13980 |
| gagctcgaga | ccggcctggc | caacatgggtg | aaaccctgtc | tctactaaaa | atacaaaaaa | 14040 |
| ttagccgggc | gtgggtgggtg | gtgcctgtaa | tcccagctac | tcaggaggct | gaggcaggag | 14100 |
| aatcgcttga | acctgggagg | cagagattgc | agtgagcaga | gattgtgcca | ctgcactcca | 14160 |
| gcctaggcag | cagagcaaga | ctctgactta | aaaaaaagaa | aaaagaaaaa | gaatgttaag | 14220 |
| atcaaacact | aattcagtaa | ccaaacattt | tttttctaag | atatctaaat | tattattttta | 14280 |
| aatgtttgaa | tggtgacaga | gattgggaaa | agagggtatgt | caattacata | atgaggaaca | 14340 |

sequece listing.TXT

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| acaagtctcc | tggttcgtag | gtagctgagt | tcaacatact | gttggctctt | gcctgattct | 14400 |
| gtaatacaag | ccaaatgttt | gacttccttt | ccccagtgag | gcctctttcc | agcgtagtca | 14460 |
| tgttcccagc | cttctcatgt | agtcagccag | ctggctctcat | gacagagatt | gcttgatcatg | 14520 |
| aaaagtgagt | tcatcccttg | actcctcaca | attgattttt | acattatttc | tcctgtaacc | 14580 |
| aaataagagg | tattcttcac | actcttcaag | tttcaagtgt | ttgttccagc | acttatattt | 14640 |
| taagcaccac | tccaatattg | attaccctct | ctagccatag | aaaatccttt | caattcattc | 14700 |
| acaaagtgca | tccttgttcc | ctcaaaattt | ctacctaatt | tgagtttata | tttacagtgg | 14760 |
| tgttgcactg | ttgtcccagt | gcaacaccac | ttagttgaat | taacaagtca | tttaagagct | 14820 |
| ctacagggaa | aaaaaggcca | aaagttgagg | gaaaaaaaaa | aaggaaatac | cttttttaaa | 14880 |
| atttcacagc | tctcagagac | ttgatgtgat | ggaatcaaaa | tgtaaagtaa | gccaagattc | 14940 |
| ctgactgtca | gtcatcagta | aaaagactga | ctttattctg | aaacagatcc | ttaaaagaga | 15000 |
| gatgcatcag | tagccgttgg | tctagcgttc | aagtcaattt | ttaaattcct | ttcttcctaa | 15060 |
| atcatttttc | cctatcctac | tgaattggag | aagggaataa | aaaggcttac | gacattgaaa | 15120 |
| tagactacac | tgttcacttt | ttgcgtgata | atatgacctg | tcattctatc | atagaaagct | 15180 |
| actaagttca | tctggcatgt | ttggctcttc | tgttactata | ttcatgcccc | cagttaaact | 15240 |
| aagctgtata | attacaaaaa | taatttcccc | cttgctttta | aaatggatat | cgcttttcca | 15300 |
| gtttccaatg | acatctttac | atcattttga | gatggtgaaa | gcagaagatt | tagttaaaaa | 15360 |
| gagttgatag | gaaagagaag | aggaataaaa | agatattctt | tccttttgca | gtactcacat | 15420 |
| ccatgtgacc | tattctgtgt | tgacagtcac | aaatatttga | ctcataattt | tttttggttt | 15480 |
| gtttgttttt | gagacagagt | ctcgctctgt | caccaggctg | gagtgacagt | gtgcgatctc | 15540 |
| ggctcactgc | aacctccgcc | tcccagggtc | aggagattct | cctgcctcag | cctcctgagt | 15600 |
| agctggtact | acaggcacat | gccaccacac | ccggctaatt | tttgattttt | tagtagagac | 15660 |
| aggatttcac | catgttggcc | gggatggtct | ctatctcttg | acctcgtgat | cctcccgctt | 15720 |
| tggcctccca | aagtgtctgg | attacaggcg | tgagccaccg | cgcttgccct | ttgactcata | 15780 |
| ttttaactca | cttttggtg | tcttaaagtt | tgaactaact | atcccttcaa | gaaaaaaaaa | 15840 |
| aaaaatctta | caatgtactt | cttagagact | gattatctat | ttccataacc | ctcagtcata | 15900 |
| gacatttcta | tttactactg | gctctgtaaa | ttgaagaatt | ttcttggtat | tatccagtaa | 15960 |
| tcaaaggtgg | ttgggttacc | tagtatggtg | cctcaacata | tcaagcagtt | cactgtgctt | 16020 |
| attctgttca | tgcttcgaag | tttagcagtg | ctaattagta | ggtgttggca | ttataatcaa | 16080 |
| agaatttcaa | gtaaataatc | aacatcagac | ttgaagtata | aattatcctt | aagaataagg | 16140 |
| cgtttaagaa | aatattatct | aaagctgtaa | ccaacagttg | gttttgtgaa | aatcatcagg | 16200 |
| ttctagatgt | ttctgcactc | tgacgaacac | tgaagatagt | gggccacata | tttaggcatt | 16260 |
| gtcaccaatg | ttgtaggtaa | taaatgcttt | gtgtttactg | tctccatgtg | gtttattatc | 16320 |
| aaatggatac | catctgttgg | aaccatttta | tactaaaatt | aacagataat | ttatcaagta | 16380 |

sequenece listing.TXT

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| tatgtatggc | aggctgcttc | aggctatgct | gctagtttagc | tcagatatag | aaaaagggtca | 16500 |
| tgctttgcac | caacttggat | gaagaatttt | gcgaagtatt | aggttctcat | ttatgttgct | 16560 |
| tccaactaaa | tcaagaagac | cttgccgaga | ttgtgaaaat | tgtgaagaag | tggccattgc | 16620 |
| cttggtttgc | aagtcaaatt | tactgaagtt | ggaaaattca | gaatggaaat | tatgtgtatt | 16680 |
| gtcaaagaaa | caatatattc | agcatatatg | tttghtaagt | catatgaatg | tgtgttgtgt | 16740 |
| gtgtttgtgc | acacttgtat | atgtgttata | gtgtatagaa | aaagagacag | aaaacagaga | 16800 |
| ccttaagttt | atgtgtcagg | gaacacaatg | tcaataaaat | agtcattcta | attgcatctc | 16860 |
| ccacctggca | aaatgaaaac | tgtaatctga | gttaaacctg | atctaatact | aatgcctgat | 16920 |
| ggcaataagg | atgagattat | ttcttcctca | ctcctagagg | gctacatacg | agtgtagcct | 16980 |
| tttgctacat | ttgggggttc | atgttggttc | atctcagatt | ctgagtattt | gttttagaat | 17040 |
| actaaaggta | gcagaatgta | attatatgaa | tttaggtgga | tgtaatattt | ctccaaggac | 17100 |
| ttattgagct | cgtcatgtta | ttattaagt | aactttcaag | ttaactcaaa | agctgttatc | 17160 |
| tttgttttga | gattgagttg | tacattgtag | ataggaaatt | aagtcatact | tccttaatat | 17220 |
| atggaatgcc | ttgactactc | gaattatgaa | gttggttgtgt | tgaaagttaa | atacaatagt | 17280 |
| cgaaagctct | tacgttgcta | agtatcaaac | tgtgagctca | ctgagggcag | tgcccttttc | 17340 |
| tatcatgttt | ttattatgct | gaattcaatt | atgtttgaac | ttgttttagta | aaaacataat | 17400 |
| gctaattatt | cttgatatc | attattttaa | taaataaacg | atctctcttt | aataaaagta | 17460 |
| aataggatcg | tgcatataca | cgataaggat | gtttctcatt | gtttttcctc | tggtagacta | 17520 |
| gtcaatcctt | acccatgaca | gcacatgggt | tctttatgga | gtgagcacia | ggtaagccct | 17580 |
| agagcactgt | ttgtttacct | tacgtttgtc | actctgccta | gatggtgatc | tttaciaaagt | 17640 |
| tttaaatttc | accccaggag | aatattacat | aatttttgtt | gaagcaaatt | ggaggtccag | 17700 |
| atttttgtaa | tcaggtttga | aggatatgtt | tctcaataat | agttgagcaa | cttttctgtt | 17760 |
| gttttgctta | gcttaccagt | acctttcagt | agattttcaag | cttcacataa | tggcttgtgg | 17820 |
| aattgcttcc | ctctgcagcc | ctttaaactg | taagtgtaaa | attcagtcac | ttggatacct | 17880 |
| gtaaatagga | agattatatt | taaattaggg | gagtggagaa | agaaaagatc | gtttactcaa | 17940 |
| gtagtagttc | ctggattagc | attaaacaac | ttctggttct | ttgggatcaa | aagggttttc | 18000 |
| agctttccaa | ggtcatgtgc | tgcatttatg | catgtgaata | ttaaacttat | gcaaaataaa | 18060 |
| atgaaatttc | atgcttggga | ggaaaagaag | tttatgtgct | ttttaccctt | acctaaagaa | 18120 |
| cactgtccat | taaagtaaga | tagagtgaag | gaagtttttt | tcctgccttc | aatttggaag | 18180 |
| atttacatta | aaagaactta | agatttccca | cataatattt | acaaactttt | ctgagcctgc | 18240 |
| tccattgcta | catgataatc | ttctatttct | aaagaattac | atgtatctcc | tgctaaaagg | 18300 |
| ggagctaaag | caagagttca | ataatctttt | acctataaca | tatgcacatt | tatgaaaaaa | 18360 |
| gtggatacat | ttgaaaaatt | gcatgtattt | ttatgcttct | atgtgttact | atggcaacca | 18420 |
| ccacagtgcc | tagtatttat | gttgtctaaa | attcagaaca | ccttttcaaa | gaaataaata | 18480 |

sequece listing.TXT

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| tgccagagcc | atgcattcta | tttacttttag | tatttagaaa | aatattttatt | ctaattgcata | 18540 |
| tttttgaaga | aaaataccaa | taaataatgt | aaacttcagc | ctggctttaa | ttagtacctt | 18600 |
| ttcctgtagt | gtttttaaaa | tcaaaataat | tacattttatt | cttcttttctt | ttccttggtta | 18660 |
| taaaaaatca | gaatagtga | cagaaataat | gaatttttaa | aattcataag | tcaatcttga | 18720 |
| aatgtagttt | tttgatgtct | cctgttttta | tgacttaata | ttttgattca | taataaattt | 18780 |
| ctgaaaatat | aaaacataaa | caattcaatc | aaatatttaa | tgtttagctac | ataaattaaa | 18840 |
| aaatgtattt | gcattttctga | ttaaagggtga | tttttaacat | ctagcaacaa | aagattttcta | 18900 |
| ttttgtattt | gaaatgaaag | gtatgggtgc | tattacttag | ttaaattatt | taaatcattt | 18960 |
| tctgacgtat | gtgatacata | aatataattt | tttgagtgtt | aaacaacaga | atggaaatta | 19020 |
| tgaagcataa | aatcagacat | gtttcatgtc | acatattacc | tgtaagaca | agctgcaatg | 19080 |
| cagcatttaa | gtacaacaga | acaatgagca | tattgtttct | gatacttgta | aacaggatgg | 19140 |
| atctacagtt | tcacagttta | tgttgacagt | atctttgtgg | gaaatgtaat | tatcaaatga | 19200 |
| attataacat | gtcttagtat | caggattatt | aatagtaatt | ttaattacct | ttttcaagat | 19260 |
| aattggatat | gttctcataa | gtatatgaga | aaggggacac | tgggctaatt | agatattttg | 19320 |
| aacttagtta | tctttaaaat | atctaggagc | ttaacataca | tattctatat | tttaggaatt | 19380 |
| tcttctttta | attaaatgtt | ttcctaagta | gaactaaaat | aattttataat | ttataaaaatc | 19440 |
| tccctgatga | tcccttgata | ttcctccttg | agtattgata | taatttttaa | aaattgaata | 19500 |
| attaaaattg | taaaaattaa | atgttcacta | ccagttataa | catttttcta | aaactggcaa | 19560 |
| agttaagaga | taatattttg | ctccactaat | gggtactggt | agatgggctt | tcatataata | 19620 |
| cttctgataa | ttttagaagt | tgattttatt | ccaaaaagta | attcattttg | gagatacaca | 19680 |
| acagccttaa | aaatgtgcat | atattttgat | ccagggattt | agcttctaga | cttaaagaac | 19740 |
| tattcagtg | tggtgtcaaa | ggtatatata | caagaatcac | agctttaatc | acaataagaa | 19800 |
| gcatttgag | ccactaacta | ggatattaaa | caggtaataa | aaaatcatgt | tctcaacaaa | 19860 |
| tatttagtaa | catagtaaat | atttagtaac | atacgctcat | tcagtgaacc | cagctgtatg | 19920 |
| tattttattt | tatttttttg | gaggctgggt | cttgctatgt | tgtccagtat | ggacttgaac | 19980 |
| tcctgggctc | cagcaatcct | cctgcctcag | cctcccaagg | tagctggggg | tacacgtgtg | 20040 |
| agccaccaca | aacagccatg | tatatgaact | gtatatttaa | tatggccaca | cctttgtttt | 20100 |
| aaaaaaatct | gtaaaatcat | aaagactaaa | aacaaaaaaa | ttacaatgat | tactaattcc | 20160 |
| aagaatagat | ttttaaatat | attttgtaaa | atcttaatat | gagcatttct | gtgataactt | 20220 |
| cagttataat | catttaaatt | gtctttaata | agacaagtta | attaaaattg | tgttttacatt | 20280 |
| cattataatg | aaaattcaac | cagttggagg | aacaatatta | tcttgtcaac | attgaattca | 20340 |
| ttgtcttggt | ttcaaagtct | ggaaatagtt | ggtactcaac | aatttggtga | ttgaatggat | 20400 |
| agatgatggg | gtcaggaatt | cgcaaagtgg | ttttagggaa | aacacatttg | gagggccaca | 20460 |
| aaggtagctt | gtttatgttt | acataaaatt | gatttgttca | tcataacaat | agatgacagg | 20520 |

sequenece listing.TXT

| | | | | | | |
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| ataataaagt | gataagaata | tgcaagaact | ggtttgctta | acacagtctg | gtagcataga | 20580 |
| ataaggcaac | agctagatag | ctagattttac | cgtaggatat | tagtttgtct | agttgtacaa | 20640 |
| ttatagctat | taaacaagca | aaaacatttg | tactgaaat | tccaacagga | aacataactt | 20700 |
| atttgagtct | ggaactgtag | ttcttaacct | ccccacttaa | aaaaaaataa | gctattattt | 20760 |
| ttataaaatg | aattttgata | atgcaagttt | actcagggat | ataactattg | cattgtagaa | 20820 |
| gagtagacta | ttccacagta | aactatat | tagttgttgt | aaaattaatt | ttaaaaagaa | 20880 |
| taatttggca | atgcaggtgt | atatatgtga | tttacaat | tacacaacac | caggaaggta | 20940 |
| gatttaatga | agaaatcaag | tgtctttctt | aattgaattg | aatgggttagc | cttctggact | 21000 |
| agctctattg | gagatggggc | tttgcaaatg | agatctccat | gtctcctagt | aagggtgagt | 21060 |
| gtggcagcaa | cttatatctc | ctgaaccaac | agtcattatc | tactttgaca | atattttaac | 21120 |
| acacctgaag | ttcctaccac | agtgtataat | ggcttccact | gtggtatggg | gatgccgttt | 21180 |
| cagcattggg | ggaggtaact | ggcaattaaa | taggtgaggg | catgttgagt | ggcagaaaat | 21240 |
| aagggtattt | ctgctggaat | gctgcagcag | ttttcaaggg | acagatacaa | cctcttgttt | 21300 |
| agtggaaat | ggcctaaaac | tctacctaa | tgtttccagt | gtacattagg | actggccttt | 21360 |
| gagaggtaat | atctgactgt | tttctgtctt | ggaagctaga | gaaagagacc | tgaaatcttt | 21420 |
| gaagatgatg | gtaattccag | atctcttttc | ttcacttg | tctttcttcc | acatgcatgc | 21480 |
| ttttctctgc | tgtgtcatct | ccatcccact | agaaaatgtg | agttcgaata | ttcaattcta | 21540 |
| ctatagaaga | aaacaaatga | gatgatgaaa | tttgtaagaa | attttgatga | tagataggaa | 21600 |
| gtcagcaagt | atgttatgag | atacaggtga | aactcctagc | atgtattaat | atagataaga | 21660 |
| gtaagcaagt | agtttgagaa | agaaaagcag | aatttagaat | atgtactaaa | tatacatagt | 21720 |
| aagcaagtta | ctaacatgta | aaacttgcca | agacaaaata | aatgggttat | gaaggaatag | 21780 |
| acaagtgtgt | atatttttga | tagaaaggaa | aaacaattta | tgatcttg | acttctgggc | 21840 |
| tgacagctgt | gccatgccac | ctacttatga | cctccagtaa | ggtcctatat | tggcccatgg | 21900 |
| tactatgccc | aagaaatgca | aataaaaacc | atagttcttc | accattaatt | ggcaagggtac | 21960 |
| ctctttattc | aggtataact | gcccctttgt | ctctctcatt | atcaagtatg | tgcccttgac | 22020 |
| ccctggcacc | ttctatcttg | gccacctgac | tcaaactctga | actctgggtc | ttacaacaca | 22080 |
| ttattatggg | gaaggctgat | gtggcacaga | gaaaacagag | catgtgacta | gcatgtaacg | 22140 |
| caggatacat | atagggtggt | cctgccactc | acatcctatt | ataagagtgt | caacctat | 22200 |
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| gttaatttgg | tctgtgagcc | ctcagattta | gtgtgcctgg | taatgtactt | ggtggctacc | 22320 |
| attacatcaa | ggtaattttc | tacttgacag | tatgctctac | tttgaacttt | actaactctc | 22380 |
| cctcacaatt | tgggattttg | aactaatgca | ttgatcatca | ctatctgggt | tagggacct | 22440 |
| gaccaagcta | cgaaaggagt | gttaaattat | ggtgattcta | tggcagctct | aagcacctag | 22500 |
| ttcactgtga | aggaattatg | agaacctgtt | tctcaccctt | cctctaggg | aatgcaggag | 22560 |
| agctaagcaa | gtcccaattt | acctggggaa | gaagataagg | aggttggtt | tcagctctgt | 22620 |

sequece listing.TXT

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| cccacttgaa | ttctctcctt | actgctgagg | ctggaggtag | ttattgtcta | gaacaagaac | 22680 |
| ttcaaatatt | tttgctcatg | tactctctaa | tacaattttg | aaaagcatat | actctcctgt | 22740 |
| acattttaag | ttgacactta | acatttcttg | ttataagctt | aaatagttgg | aaaatatgtg | 22800 |
| atttctgata | tgctatgaat | gttgacattt | aaaaaataaa | actattttaa | atatatctaa | 22860 |
| tagaatctga | attccatatt | atttgtttaa | aatatttttt | aatgaacatt | ttcaaacaca | 22920 |
| tacaagagga | aaaacggtaa | aacctccatg | tactcttcac | ccaagttaaa | caatcatcag | 22980 |
| ctgtctgaca | gtcttacctt | tactccctta | ctcttttcta | ttgaagtatt | ttaaggcaaa | 23040 |
| ctccaatcat | attgtactca | catatacctc | ggttttatatg | tctaacaaaa | aagattttatc | 23100 |
| atggtagtac | catttattca | tattcaatac | aatcattttcc | ttaataaaaat | catttccctta | 23160 |
| atattaagta | gtaagcagta | tatattcatg | tgtcaccaat | tgtctcaaaa | atgtatgtct | 23220 |
| gaagaaagt | tgttcaaata | aggaactaaa | taatattttat | gcattgcatt | tagttgaaat | 23280 |
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| tttttttttg | tatttttagt | agagacaggg | tttcaccata | ttggccaggc | tagtctcgaa | 23520 |
| ctcctgacct | tgatgatccac | cctcctatga | ttcttgagtc | tcttcatttg | taacattttt | 23580 |
| cctttctctg | ttttctctgc | catgtctttt | aacatgtttc | tctatttcac | atacttatga | 23640 |
| gaaaaaaccc | tagaagttag | atctagaaac | ttgggttagat | tcagtgttta | tggaagaat | 23700 |
| ccttcatagg | tattcctgtg | tttataattc | ctgtggaatt | acacaaggag | aagcaatttc | 23760 |
| tagttgtcct | atttttagtg | cattaatgtg | aatcaatagt | atatcagtca | gattcatctc | 23820 |
| ctataaactt | ccctttgtct | tttcatctca | tgatgacaag | cattgcctgg | acaaacatta | 23880 |
| tctgggtcca | ttatttcatt | agagtctatg | caatggtgat | ttttctaatt | cttttattcc | 23940 |
| atctatatatt | attagctatg | attcttctat | taagaataat | tttctttcat | tatctatttg | 24000 |
| tttctcctga | attatagcca | actcaggaaa | gaaggaaaag | tacatttctc | ttccagtata | 24060 |
| ctaaattggg | gggccagcaa | tctccaaaga | cgaatgatga | gaattgaagt | ataaatctta | 24120 |
| atttttagtat | tattagatac | tcatggattt | atatgcttga | tgttttcatc | ttttattttt | 24180 |
| ttttttactt | ttcagagtgt | cccatttttg | gccagtggaa | ttacctttta | gttgactcct | 24240 |
| gtgtgctttt | gacactcccc | acatgaaaga | gtgtgtagta | gagctctcta | gagaaacaga | 24300 |
| gaaacaacag | gatgcatgtg | aatatagggtg | atggagatag | agtttctagt | tttaagagag | 24360 |
| ttctttgttt | taagcatgac | aagggtgtcac | acgtacacat | atacataacg | tttctagccc | 24420 |
| cagacctgaa | ttctatagag | attttaaaac | gttaaaaaca | ttaacaagct | cttcttcaac | 24480 |
| aaagtttttc | cttaaacctta | cgttttattcc | attttttcat | agaattttat | cattttataat | 24540 |
| tgaaagtttt | ttataggcta | ctctgtctta | cataacatgt | tgttatctgc | aataaccaca | 24600 |
| tactataata | aggttttttt | taaaaaatgg | cctttgacca | taaggttata | agtgtagaaa | 24660 |

sequece listing.TXT

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| catggatata | ttaccatttc | tgatatttat | caaacataag | aaaatttatg | aaaaaatatg | 24780 |
| ttgataatat | aggttgggga | gagcatgcat | aatttcttga | ttaaaggaat | tgtggagttg | 24840 |
| ttccttggtt | tgaaccttg | gaataggcaa | aaaggaaatg | cttttctttt | gtaaaatgag | 24900 |
| aaatagagac | tgtccaagat | taaactctag | ttaggacagg | cagcttctta | tgcagatgta | 24960 |
| tttttttaaa | gtgccagctt | cttaggcaga | tgtattcttt | taaagtgcct | atatatagaa | 25020 |
| ggcaagaatc | tagaaattgg | ttttcttaca | actatccgca | cttgcatgcc | ctttggaaaa | 25080 |
| tctacatgaa | ctgttattgg | tagttagtgt | tcaacttggt | gaccaccagg | actctgttct | 25140 |
| ccagtagctg | acacatggtg | cctactatgt | gccaaacaca | tcaactttat | gaagtgggta | 25200 |
| ctatttttat | ccccattttg | cagatgaaga | aactgaagca | caaagatggt | acgtaacttg | 25260 |
| tccaaagtga | cacagcttgt | aagtgggcag | cagggaggca | aaccagtc | ctgtggctcc | 25320 |
| agagtccaga | ctcaaccact | aaggacagga | atgtcttttg | taaaaaagga | tggaatggta | 25380 |
| ccctaggtgg | gggtatcaga | ggggagcaca | tagtgatctg | aaattgttaa | gaaataggaa | 25440 |
| gtaaaggaag | attgtggttt | ttctgtgtgt | cagtgaataa | actatgcatg | tgtaataaaa | 25500 |
| acataagtca | atgcctttat | ccgtattctt | tagagtacca | tagtatttag | tgtcagtcaa | 25560 |
| attaaaatta | acacattttt | atttctttta | tttctaata | acgattagtt | ctcatttaaat | 25620 |
| tgtcaatgtg | caggggtggt | atctgaaacc | ctgttacagt | cttgtatttt | gcatattcta | 25680 |
| cttagcctgt | gaatatgttc | tacttctagt | gaggatgaca | ctgtttatag | atacattaca | 25740 |
| gaagaaatat | ttcatttaaat | aatggtaatg | atttcacact | tatataacta | atcctactga | 25800 |
| aagcatcttg | aaagtatttt | tcatttattt | atttatttat | ttatttattt | attttgagat | 25860 |
| ggagtctcac | tctgttgccc | aggctggagt | gcagtgccat | gatctcggct | cactgcaatt | 25920 |
| tccgcctcct | gggttcaagc | gattctcctc | cctcagcctc | ccaagtagct | gggattaccg | 25980 |
| gcatctgcca | ccacccccag | ctaatttttt | gtatttttag | tagagacagg | gtttcaatat | 26040 |
| gttggccaga | ctggtcatga | attcctgacc | tcaagtgggtc | tacccatctc | ggcctcccaa | 26100 |
| aatgctggga | ttataggtgt | gagccattgt | gccccgccct | tattttattt | ttttaagaga | 26160 |
| cagggtcagg | ctgggtgtgg | tcgctcatgg | ctgtaatccc | agcactttgg | gaagccaaga | 26220 |
| tgggcagatc | acctgaagtc | aggagtgttg | gaccagcctg | accaacatgg | agaaacccca | 26280 |
| tctctactaa | aaatacaaaa | attagccagg | catggtggcg | cacacctgta | atctcagcta | 26340 |
| cttgcgaggc | tgaggcagga | gaatcacttg | aacctgggag | gtggggggtg | cagtgagtca | 26400 |
| agattgtgcc | attgtactcc | agcctgggca | acaagagtga | aactccatct | caaaaaaaag | 26460 |
| acagggctctt | actctgacac | ccacgttgga | gtgcagtggc | acagtcatac | ttagtgcaac | 26520 |
| cttgaaactc | ctgggctcaa | gtgatcctct | cgcctcagtc | taccaagtag | tcctagctag | 26580 |
| gctcaagtga | tcctctcgcc | tcagtctacc | aagtagctag | gactacaggc | atgcaccact | 26640 |
| cggcctggct | aatattttta | aattttttat | ttgtagagat | ggggctcttg | cattttgtcc | 26700 |
| aacctggcct | tgaactactg | ggctcaagag | atcctccac | cttggcctct | gaaaatactg | 26760 |

sequece listing.TXT

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| aacaaaaagg | tatacctacc | actaaaataa | ttacctcttt | cactgaaagt | taggattata | 26880 |
| attgtgcata | agtaaaaaat | aaaactattt | ctgttttctt | cagggttattt | ttgaatagtt | 26940 |
| atattcaaat | ttcgtttttt | taataattgg | attatatcat | aaacacacca | ggacagtcag | 27000 |
| tggatttttt | tctgcaagtg | gttttactct | ttaatcatat | acttttgcct | tgctatgcac | 27060 |
| agctggattt | ttgcttataa | gcatttccca | attcagactc | aacctatgaa | agattttcaa | 27120 |
| agacaatggg | tgtaaagat | gctttagaag | agagcctcac | ccctcctatc | atgaaatatt | 27180 |
| taagggagga | ggagagagag | ggccaacaga | ggagtgtctg | gtggacaaaa | gcaccctctc | 27240 |
| ttattaaact | atgtataaac | agatcttttt | cttatttgat | gcagattagg | acattttattg | 27300 |
| aatgtttacc | atgtgccaa | ccctgtgcc | aatgcttcca | agttcaccat | ttcatttaat | 27360 |
| gctcataacc | atgtagttac | cctgttttgc | acaaaagaag | actgaggctg | aaaaaattca | 27420 |
| tgatacttaa | ggccacatag | ttagaaagt | caagagaaac | acgtgatcat | tctcttatgt | 27480 |
| caataggtat | gaattcctcc | ataatgtttg | tgcgtgtaag | ttagttatat | tgctttttatt | 27540 |
| tttccatatg | cttagttagc | agcaagtgt | gtctcataat | ctttgagctt | cccatctcct | 27600 |
| gtagattatc | tgtgaacctt | aggtgttaac | tgctgttcaa | aaggaaagtt | ctccagctgt | 27660 |
| cccctcccta | atgagaatga | cccttaatgt | cagttagttt | gtctgttggt | gctgctggta | 27720 |
| ctattgggtg | tgctgccatt | gccatagctt | cttgtctgacc | cacatcacca | ttactgatct | 27780 |
| cattggcatc | catcacctga | caggcgctat | tggtccttgc | ttcaggaaag | tttttctggc | 27840 |
| accagttcca | cctcagcctt | gcaaggcaac | atgggtctttg | aaagaggggt | tatttagtcag | 27900 |
| ggttctacag | agaaacagac | caaaaaaat | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | 27960 |
| gtatagtcat | gcattgcata | agagtgtttt | gcttaaggat | ggactacatt | tacaacggta | 28020 |
| ctcccatgag | attataatgg | agctgaaaaa | tgcttatcac | ctagtgcac | agctgttgta | 28080 |
| atgtttagtg | gcagtgtatt | actttttcta | tgtttagata | cacaaatact | tactatagtg | 28140 |
| ttaaaattgc | ctacgggtgtt | ctacacagtt | acatgctgta | cagggtttgta | gcctaggacc | 28200 |
| aatcagctat | actatagagg | ctaggtgtat | agtatgccat | ctagggtttgt | gtaagtatac | 28260 |
| tgtatgatat | ttgcccagtg | aaatcaccta | atgggtgggt | tctcagaacg | tatccccgtt | 28320 |
| gttaagcaac | acatgtctat | ctatctatct | atctatctat | ctatctatct | atctatctat | 28380 |
| ctatctatct | ataaaaactgg | aatttccatt | cttaaccaa | ccaaacataa | ctcagagatt | 28440 |
| ctactcgag | ggtgaattgg | tctcaatgtt | attctgtcat | cactttcttc | tggaaccaat | 28500 |
| acaatgcttc | actgcagtgg | gcactgttgt | tgaattccct | acctgtgaaa | gaagtttctg | 28560 |
| gagaactttg | tcttgaaatg | cacatactta | gccaaagtct | ttcttctgaa | ccatcctttt | 28620 |
| tgctgcccc | ttctggaagc | cagagtcacc | tgcaaaaaa | ctcctcccta | ctagctctcc | 28680 |
| aagatgtgga | aaggcaaagt | ccaccaaact | ccagcagggt | cacgggaggc | tttcatgttg | 28740 |
| gacatctctt | actcatcagt | caaccagtg | tgctcctaac | tgcttgccag | atacctcaag | 28800 |

sequenece listing.TXT

| | | | | | | |
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| ttttctcctt | cccttctcta | tctactcatt | ctgtaatcaa | tacatatata | tatgaagaga | 28920 |
| gagagagagg | aagattaatt | gattttttaag | aattggctcc | cgtgagtgc | gaggctatgt | 28980 |
| gagtccaata | tctgatgggt | aggctggcag | gctagagact | tagagaaggg | gtgcaattca | 29040 |
| agtccaaaga | caacctgctg | gaagaattcc | ttcttacc | ggggaagtca | gtcttttttc | 29100 |
| tataaaagct | ttaaactgat | tggatgagac | ccacatcaca | ttatggaggg | taaactgctt | 29160 |
| tactcagagt | ctacacattt | aaatgttaat | ctcatccaaa | aaaacacctt | cacagaaaac | 29220 |
| accagaaca | atggttgatc | aaatagctgg | tcaccatggc | cctgccaaagt | tgaccataa | 29280 |
| aattaacat | cacagtggct | aacacaattc | cttcagtatt | gtgctcaatt | acagtaccca | 29340 |
| tactgggtc | cccagatca | cagctacagt | tacctagcct | tttaaatcca | cctctccttc | 29400 |
| tcctttcctc | cctccctcct | gctcctctcc | tcctctctct | cagaaccaca | tacactccac | 29460 |
| acagtcat | tttccaagg | tctcactgcc | ccagaatagt | gtggggtaga | tttgtctgct | 29520 |
| gcagaccaat | tcttgcta | ttttttttat | atcctgggaa | atccagcaat | ttaacttaaa | 29580 |
| ggccttttag | gcacagattt | taaaaatgca | aaaaggcccc | gtgtatcatc | cctgggtaaa | 29640 |
| ggaaaccaga | cctctgaatt | aggaaatccc | acttaccact | gggagtggag | ctagtgagga | 29700 |
| ggaaatgctt | tttgttcttc | cttgaagagt | aaaacattat | tttcatcaag | ataaaaacag | 29760 |
| agactttttg | atgccttctt | taaaaagcat | caaagagtaa | atctttgggtg | agtcccatgg | 29820 |
| gtacatatgc | aaccacagag | acataggata | gtaccttttc | atttaaaaag | gaggctat | 29880 |
| aaatatagat | aggtgcagtc | tagacacttg | atttgctga | gacaggccca | gtttggatga | 29940 |
| taaattat | ggctagt | gatagaaaga | attaacattg | aaaatttg | aaaactatct | 30000 |
| acttttagtcc | tgaaggaat | cctttcttct | gtgattacaa | tgttgctgct | gtgaacaaat | 30060 |
| gtgttcttgg | catctgaagt | acaatttccc | atatttcttt | tataaatatt | tattgcatac | 30120 |
| ctactatgtc | ctagacactg | aattaagcac | tatgaatgca | aagtgaacag | gacagactag | 30180 |
| tctcagctct | cataaaat | tttttaacta | taatattatt | ggagagttaa | ttcaggtatt | 30240 |
| actagcatat | attgaatgag | gcaaggaaac | tgatcaatgt | atacatttgt | ttccatagta | 30300 |
| tcttattctg | ggctgccata | acaaaatacc | ttaggctgaa | tcgtatacaa | acaatagaaa | 30360 |
| tttattcctc | acagt | ttctg | gtctag | gtctag | gtctag | 30420 |
| tgagtgcctg | cttccttatt | gataatgtgc | ccttgcgttg | taaaagagt | ccacccttat | 30480 |
| gacttaattg | cctccctaaa | ggctctgcct | cataataaca | tcacattggg | gattaagttt | 30540 |
| caacttagaa | atttggcagg | gggtggaggg | tggccacaaa | cattccaacc | atagcacata | 30600 |
| ggaaaattca | ttcttaattt | caggcaacca | actgacttaa | acatgaactt | tgggaaatgg | 30660 |
| aaaaaagaag | tctatttcat | tataccaagt | tggcttctag | tttctaaatc | atcaacagtg | 30720 |
| taggagcagt | gtgagcaaag | gtctagagac | tggaaataaa | tagcatgtac | aagatgttaa | 30780 |
| gaaaagt | cattgaggat | gggtaagaaa | aagagg | tttcttactc | atataaaagt | 30840 |
| ttatttctta | cttacaatgt | aaagtttaca | ttgaggacgg | gtaagaaaaa | aaggcttatt | 30900 |

sequece listing.TXT

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| tcttactcat | ataaaagtct | ggagggctag | tataatgctc | taagatcttc | tattttgttg | 30960 |
| ctgtgctgtg | agaagcttcc | attcccaaag | tcacagatgg | tgcatctcatg | gctattccag | 31020 |
| ctttaagcca | tgatcacatt | ccagatatca | ggaaggaaga | aaagaaggct | gaaaattatg | 31080 |
| ccccataccc | ccttcttttg | tgacagttcc | cagaaatcac | atatgccact | tctgcttaca | 31140 |
| ttctgctgac | cagaatttag | tcattgtggc | aagtggcaac | atgtagatgg | aaaaaaggct | 31200 |
| tcagctagac | actgtaaaag | ggaagagatt | ctagtgaaca | tctaacagtt | tactccacaa | 31260 |
| tccaaccttt | tagccaccaa | aatatctttg | gtacgccctt | cttcctgtag | atagaacata | 31320 |
| accacctatt | cttgatcata | catgcctgtt | ctagctttta | attatgtatg | tgaaccccca | 31380 |
| aatatgatcc | atttgaatat | ggctcagaat | ctaggctgtt | gggttaatgc | actgtccttt | 31440 |
| tcattaagtc | caggtggctc | agtaacctat | aaactaaaag | ttaatgcatt | tgccacatca | 31500 |
| cacctaacag | aatggatgta | tatttggaag | ggaggagaat | aggattaaca | caagagtcac | 31560 |
| tggtttatag | tggttatcaa | ttctgctagg | ctaggtagga | attgtaaaag | ttcctttctc | 31620 |
| tagcaatgga | gcaatttcct | tgattagttc | atcagagtac | tcctaattct | gccttttgga | 31680 |
| aagggtcttc | cttgtagatt | gtacttcctg | accacatctg | atgtgggtcaa | tgagagaattt | 31740 |
| gctgttctgg | agtgtgaac | agatctgcag | cctgcttcct | gctgatacaa | atgtgggcat | 31800 |
| gagatttgaa | tacaggtcag | tcattgtttt | cggccagctt | tgtgggtttct | tcagtaattt | 31860 |
| aacactgctc | cttcctcttc | ccctaaatta | gtagacttcc | agtctatagc | taatcccatg | 31920 |
| ttcacagcca | aagatcacgt | ctagacatta | tttttaagcc | tgagtactgg | ttttttattc | 31980 |
| cctgactctg | tgcttcaaca | taaagatgat | tcctttgagg | tcacctaaca | caataagctt | 32040 |
| gggttgaaaa | acagcaacct | taatctgatc | tttgacagct | aggctagttt | gattgattga | 32100 |
| ttgattgatt | gattgagaca | gggtctcact | caccagggca | ggagtgcagg | ggcatgatca | 32160 |
| tggtcactg | cagcctcaat | ctcctgggct | caagcaatct | tcctgcctca | gcctcccaag | 32220 |
| tagctaggac | tagaggtgtg | tgcaatcata | cccagttaag | ttactttttg | tagagtcagg | 32280 |
| gtctcactgt | gttttccaga | ctggtctcaa | actcccggac | tcaagcagtc | cttcctcttc | 32340 |
| agcctcccac | agtgtcggga | ttacaggcgt | gagccatcac | acccaaccag | ggaagaattc | 32400 |
| ttaaagaaaa | gtgttggttaa | aaagcttaga | accacagtct | catcttatgt | agcaatcact | 32460 |
| gtagagtgtc | actttttata | gtttcagttt | gggatacaca | aacagttgaa | ttcttcaacc | 32520 |
| ctgcaaggcc | caaagtccca | aattactaga | ctctgagtta | aatttatatt | ttaagccatt | 32580 |
| ctagtgttat | ccttatttct | ttgctctaag | taaataccat | gtatttttagg | tttttgaaag | 32640 |
| caatttactt | caagagaatg | tcagggtattt | caggattagg | tttaactgca | agtaacaaag | 32700 |
| atccaaatta | atactgtttt | gaacaaacta | ggtgtttctt | actcatgtaa | aagtctggag | 32760 |
| gtagatagtc | caggggttgg | atggtactcc | atgttgtcag | aggttcagac | tccttcaatc | 32820 |
| ttccctcagt | cctgggtttc | attttcagca | tctcatcaaa | gttaaagatg | accaatccag | 32880 |
| gactagccat | tgttttcatt | ctaggtagca | gaaggaagga | aaaagaaggg | tacactcact | 32940 |

sequece listing.TXT

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| tgcatggacc | atctccacta | acatgccatt | ggccataaca | tgttcatatg | gtcctgcccc | 33000 |
| gctacaagga | aaactggaaa | atacagtctt | tatttttaggc | agccatatgt | ctcagttaaa | 33060 |
| aatcagggat | tctagttttg | tagaaggaa | aaggaatgga | tattggcaga | caattggcag | 33120 |
| tctctgccac | aaagtttatg | caattattag | aaaatactaa | catatggaca | cattaggaca | 33180 |
| ttgcaataca | attatttcaa | tgcatttggg | gaattcttaa | caaagaattc | aaaattgtct | 33240 |
| ttttaaaaaa | atcatattgc | taaacactcc | atgagcttac | tagttctcgc | aaagtcctaa | 33300 |
| caatgtcctg | caaggtcctg | tgttgtgtcc | acctcctcca | taccctttct | aacctcatcc | 33360 |
| caactacatt | cttccttggt | catctattca | tctacttttg | ctgttcttca | cacttgccag | 33420 |
| atatatccca | ccttaggacc | ttttggatgc | ctgccctaag | gcaccctcct | gggtctccct | 33480 |
| gggtatctgc | atgacaaact | ttcttgccct | tttcatatct | ttgccagat | gctaccagct | 33540 |
| ctatgtggcc | tacactaaca | accctattta | aacttgcaat | tccctccact | cccacatact | 33600 |
| cccaatttac | cttttcctca | tcagttttcc | ccttagcatt | tattacctat | taacatctgt | 33660 |
| acaatttgct | tatttatgat | gtttattggt | tattatctgt | tcccacttga | aagtaagctg | 33720 |
| catagggcac | aatgggtttt | ttctgctttg | ttaactgatt | ataagtgcct | agaacaatgt | 33780 |
| caacgaataa | tgcgtgaatg | aatgaaagca | tttatttcag | aacaacacta | aaaaagtaaa | 33840 |
| aggatttttt | tttaccttaa | aagtaatata | ttttccttag | gcctgccata | taatcttaat | 33900 |
| ttgggactcc | tcttcattgt | cttagtgggc | cacttcagag | atgagatttt | gtagctattt | 33960 |
| taatcagtat | tgtgagacca | ggattacacc | ctggaaagga | tcctgtagat | caggggtccc | 34020 |
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| ttcttatggg | cacattgttt | tggctctttg | gtaaaattag | attgtctgtg | tgtgttactc | 34200 |
| tattttccag | attgcaaata | agaaaattcc | agattccatt | ccaagatggc | caaataaggaa | 34260 |
| cagctccagc | ctgcagctcc | cagcgtgatt | aatgtagaag | atgggtgatt | tctgcatttc | 34320 |
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| gagatcgacc | tgcaaggcag | cagcctggca | ggaggagggg | tatccaccat | tgctgaggct | 34680 |
| tgagtaggta | aacaaagcag | ctggggaagc | ttgaacgggg | cagagccctc | cgcagctctg | 34740 |
| caagccctgc | tgtgtctaga | ccccacctct | ggaggcaggg | catagctgaa | caaaaggcag | 34800 |
| caaaaacttc | tgcagactta | aacgtccccg | tctgacagct | ctgaagagaa | cagtggttct | 34860 |
| ctcagcactg | tgtttgagct | cagagaatgg | acagactgcc | tcctcagtgg | gtccctgacc | 34920 |
| cccttgtacc | ctaactggga | gacacttccc | agcagggggc | aactgacacc | tcatataggc | 34980 |
| gggtaccctt | ctgggacgaa | gtttccagag | gaaggatcag | gcagcagtat | ttgctgttct | 35040 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-------|
| gcaatatttg | ctgttctgca | tcctctgctg | gtgataccca | ggcaaacatg | gtctggagtg | 35100 |
| gacttccagc | aaactccaac | agacctgcag | ctgaggggact | tgactgttag | aaggaaaact | 35160 |
| aacaaacaga | aaggaatagc | atcaacatca | acaaaaagga | catccacacc | aaaaccccat | 35220 |
| ctgtaggtca | ccaacatcaa | agaccaaagg | tagataaaac | cacaaagatg | gagggaaaact | 35280 |
| agagcagaaa | agctgacaat | tctaaaaacc | agagcacctc | ttctcctcca | aagcatcgca | 35340 |
| gctcctcgcc | agcaatggaa | caaagctgga | tggagaatga | ctttgacaag | ctgacagaag | 35400 |
| taggccttcag | aagggtcggt | ataacaaact | tctctgagct | aaaggaggat | gttcgaaccc | 35460 |
| attgcaagga | agctaaaaac | cttgaaaaaa | gattagacga | atggctaact | agaataaaca | 35520 |
| gtatagacaa | gaccttaaat | gacctgatgg | agctgaaaac | catggcacia | gaactatgtg | 35580 |
| acgcatgcat | gagcttcagt | agctgatttg | atcaagtaga | agaaagagta | tcagtgggtg | 35640 |
| aagatcaa | taatgaaata | aagtgagaag | agaagtttag | agaaaaaga | gtaaaaagaa | 35700 |
| atgaacaaag | cctccaagaa | ttatgggact | atgtgaaaag | accaaatact | cgtttgattg | 35760 |
| gtgtgcctga | aagtgcaggg | gagaatggaa | ccaagtttga | aaacactctt | caggatatta | 35820 |
| tccaggagaa | cttccccaac | ctagcaaagt | aggccaacat | tcaagttaag | gaaatacaga | 35880 |
| gaacaccaca | aagatactct | tcgagaagag | caacccaag | acacataatt | gtcagattca | 35940 |
| ctaaggttga | aaggaggaaa | aaatgttaag | ggcagccaga | gagaaagggtc | gggttaccca | 36000 |
| caaaggggaag | cccatcgac | taacagcaga | tctcttgga | gaaactctac | aaaccagaag | 36060 |
| agtgtgggggt | ccaatattca | tcattcttaa | agaaaagaat | ttttaacca | gaatttcata | 36120 |
| tccagccaaa | ctaagcttca | taaatgaagg | aggaataaaa | tcctttacag | acaagcaaat | 36180 |
| gctgagagat | tttgtacca | ccaggcctgc | cttacaagag | ctcctgaagg | aagcactaaa | 36240 |
| catgtaaaga | aacaaccagt | accagccact | gcaaaaacat | gccaaattgt | aaagaccact | 36300 |
| gatgctagga | agaaactgca | gcaactaatg | ggcaaagtaa | ccagctaaca | tcataatgac | 36360 |
| aggatcaaat | tcacacataa | caatattaac | cttaaagtga | aatgggctaa | atgccccaat | 36420 |
| tacaagacac | agactgggaa | attggataga | gtcaagaccc | atcagtgtg | tattcaggag | 36480 |
| acccatctca | tgtggagaga | cacacatagg | ctcaaaataa | agggatgaag | ggagatctac | 36540 |
| caagcaaatg | gagagcaaaa | aaagagcagg | ggttgcaaac | ctagtctctg | ataaaacaga | 36600 |
| ctttaaacca | acaagatca | aaagagacaa | aaaaggccat | tatacaatgg | taaagggatc | 36660 |
| aattcaacaa | gaagacctaa | ctagcataga | tatatatgca | ccaatacag | gagcaccag | 36720 |
| attcacaag | caagtcctta | gagacgtaca | aagagacttt | gactctcaca | caataataat | 36780 |
| gggagacttt | aacacccac | tgtcagtatt | agacagatca | atgagacaga | aggttaaaaa | 36840 |
| ggatatccag | gacttgaact | cagctctgca | ccaaggagac | ctaatagaca | tctacagaac | 36900 |
| tctccacccc | agatcagcag | aatatacatt | cttctcagca | ccacactgga | gttattccaa | 36960 |
| aattgaccac | atagttggaa | gttaaaagca | ctcctcagca | aatgtgaaag | aacagaaatc | 37020 |
| acaacgaact | gtctctcaga | ccacagtgc | atcaaattaa | aactcaagat | taagaaactc | 37080 |

sequenece listing.TXT

| | | | | | | |
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| actcaaaacc | acacaactcc | atggaaaccg | aacaacctgc | tcttgaatga | ctactgggta | 37140 |
| aataatgaaa | tgaaggcaga | aataaagatc | ttctttgaaa | ccaatgagaa | caaagacaca | 37200 |
| atgtacaaa | atttctggga | cacatttaaa | gcagtgggta | gagggaaatt | tatagcacta | 37260 |
| aatgcccaca | agagaaagaa | ggaaagatct | aaaattgaca | ccctaacatc | acaattaaaa | 37320 |
| gaactagaga | agcaagagca | aacaaattca | aaagctagca | gaaggcaaga | aataactaag | 37380 |
| atcagagcag | aacttaagga | gatagacaca | caaataccct | tcaaaaaacc | aatgaatcca | 37440 |
| ggagctggtt | ttttgaaaac | atcaacaaaa | ttgatagacc | gctagcaaga | ctgataaaga | 37500 |
| agaaaaggga | gaagaatcaa | atagacgcaa | taaaaaatga | taaaggggat | atcaccacta | 37560 |
| atcccacaga | aatacaaact | atcatcagag | aatactataa | acatctcttt | gcaaataaac | 37620 |
| tagaaaatct | agaagaaatg | cataaattcc | tgatacata | caccctccca | agactaaacc | 37680 |
| aggaagaaat | tgaatctctg | aatagaccaa | taacaggctc | tcaaattgag | gcaataatta | 37740 |
| atagcccacc | aaccaaaaaa | agttcaggac | cagatggatt | cacagtcaaa | ttctaccaga | 37800 |
| ggtacaagga | ggagctggta | ccatttcttc | tgaaactatt | ccaatcaata | gaaaaagagg | 37860 |
| gaatcatccc | taactcattt | tatgaggcca | gcatcatcct | gataccaaaa | cctgacagag | 37920 |
| acacaacaaa | aaaaagagaa | ttttagacca | gtatccctga | tgaacattga | tgcgaaaatc | 37980 |
| ctcaataaaa | tactggcaaa | ccgaatccag | cagcacatca | aaaagcttat | ccaccacgat | 38040 |
| caagtaggct | tcatccctgg | gatgcaaggg | tggttcaaca | tatgcaaatc | aataaacata | 38100 |
| atccatcaca | taaacagaac | caaagacaaa | aaccacgatt | atctcaatag | atgcagaaaa | 38160 |
| ggccttcgac | aaaattcaac | agtcctttgt | gctaaaaact | caataaaacta | ggtattgatg | 38220 |
| gaatgtatct | caaaataata | agagctatct | atgacaaacc | cccagccaat | atcatactga | 38280 |
| atgggcaaaa | actggaagca | ttccctttga | aaactggcac | aagacaggga | tgccctctct | 38340 |
| catcactcct | actcaacaaa | gtgttggaag | gtctggccag | ggcaatcagg | caagagaaag | 38400 |
| aaataaagga | tattcaatta | ggaaaagagg | aagtcaaatt | gtccctgttt | gcagatgaca | 38460 |
| tgattgtaca | tttagaaaac | tccaccatct | cagcccaaaa | tctccttaag | ctgataagca | 38520 |
| acttcagcaa | agtctcagga | tacaaaatca | atgtgcaaaa | atcacaagca | tttttataca | 38580 |
| ccaataacaa | agagccaaat | catgaatgaa | ctccccttca | caattgctac | aaagagaata | 38640 |
| aaatacctag | gaatccagct | tacaagggat | gtgaaggacc | tcttaaagggt | gaactacaaa | 38700 |
| ccaccgttca | aagaaataaa | agaggacaga | aacaaattga | acattccatg | ctcatggata | 38760 |
| ggaagaatca | atatcgtgaa | aatgaccata | ctgccaagg | taattttaga | ttcagtggca | 38820 |
| tccccatcaa | gctaccaatg | acttcacaga | attggaaaaa | ctacttttaa | tttcatatgg | 38880 |
| aaccaaaaaa | gagcccacat | tgccaagaca | atcctaagca | aaaagaacaa | agctggagac | 38940 |
| attacgctac | ctgacttcaa | actatactac | aaggctacag | taaccaaaaac | agcatggtac | 39000 |
| tggtacaaca | acagagatat | agaccaatgg | aacagaacag | aggcctcaga | agtaacactg | 39060 |
| tacatctaca | gccctctgat | ctttgacaaa | cctgacaaaa | acaagaaatg | gggaaagaat | 39120 |
| tcgctattta | ataaatggtg | ctgggaaaac | tggttagcca | tatgtagaaa | gctgaaactg | 39180 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|-------|
| gatcccttcc | ttacacctta | tacaaaaatt | aattcaagat | ggattaaaaa | cttaaattgtt | 39240 |
| agacctaaaa | ccataaaaac | cctagaagaa | aacttaggca | ataccattca | ggacataggc | 39300 |
| atgggcaagg | acttcatgac | taaaacacca | aaagcaatgg | caacaaaagt | caaaactgac | 39360 |
| aagcgggatc | taattaaact | aaagagcttc | tgcatagcaa | aagaaactac | catcagagtg | 39420 |
| aagaggcaac | ctacagaatg | ggagaaaatt | tttgccatct | acctatctga | caaagggctt | 39480 |
| atatccagaa | tctacaaaga | acttaagcaa | atttacaaga | aaaaaaccaa | ccccatcaaa | 39540 |
| aagtgggcgt | aggatatgaa | cagacatttc | tcaaaagaag | acatttatgc | agccaacaga | 39600 |
| cacatgaaaa | aatgctcatc | atcactggtc | atcagagaaa | tgcaaatcaa | aaccacaatg | 39660 |
| agataccatc | tcacaccagt | tagaatggcg | atcattaaaa | agtcaggaaa | caacaggtgc | 39720 |
| tggagaggat | gtggagaaat | aggaatgctt | ttacactgct | ggtgggagtg | taaactagtt | 39780 |
| caaccattgt | ggaggacagt | gtggcgactc | ctcaaggatc | tagaactaga | aataccattt | 39840 |
| gaccagcca | tcccattact | gggtatatac | caaaggatt | ataaatcatg | ctgctataaa | 39900 |
| gacacatgta | cacgtatgtt | tattgtggca | ctattcacia | tagcaaagac | ttgggaccaa | 39960 |
| cccaaattgc | catctatgat | agactggatt | aagaaagtgt | ggcacatgta | caccatggaa | 40020 |
| tactatgcag | ccataaaaaa | ggatgagttc | atgtcctttg | tagggacatg | gatgaagctg | 40080 |
| gaaagcatca | ttctgagcaa | actatcacaa | ggacagaaaa | ccagacacag | cattttctca | 40140 |
| ctcatagggtg | ggaattgaac | aatgagaaca | cttggacaca | gggcagagaa | catcacaccc | 40200 |
| cagagcctgt | tgtgggggtg | ggggcagggc | tggagggata | gcattcggag | aaatacccaa | 40260 |
| tgtaaattgac | aagttaatgg | gtacagcaaa | ccaacatggc | acatgtgtac | atatgtaaca | 40320 |
| atcctgcacg | ttatgcacat | gtatgtaccc | tggaacttaa | agtatagtaa | taaaaaaaaaa | 40380 |
| tggaaaatcc | cgactccaac | tagcttaagc | aaagaaagaa | aattgttggc | ttatgtacgt | 40440 |
| aggaaactaa | agaggtgggt | tttttaaata | gctggtctca | gggattcaaa | tgtcatcatc | 40500 |
| aggaatctca | ctttctgtct | ctctccatct | cttaggtctg | ctttcatctc | ttttggcttc | 40560 |
| atctcaatgg | ggaaggtttg | catttttctt | aaagctagca | atccaggaga | atagagccct | 40620 |
| gcttgctttc | ttcatcagga | ctctgattta | ccaatctctg | tatgtgggag | aatagggcat | 40680 |
| tttgattggc | tagcctagta | gacattcact | tccatgcctt | gaaggcaagg | ccacataatt | 40740 |
| gacagaccca | tcagaatcag | gaggaaggta | agttccaaaa | aagagggatg | aaggacagac | 40800 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaag | ccttgtggtg | tgctttttca | gtaacgtatt | 40860 |
| tcacatacaa | ttttgcttat | ataagcagtt | ttccagcaaa | tagcaaaaat | taaaatgttt | 40920 |
| tccaacaaac | cagcattttt | ttaatccttt | tttttttttt | ttttgagatg | tagtctcact | 40980 |
| ctgtcgccca | gcctggagtg | cagtggcgcg | atctcaccgc | actgcaagct | ccacctcccg | 41040 |
| ggttcctgcc | attctcctgc | ctcagcctcc | caagtagctg | ggactacagg | cacctgccac | 41100 |
| caccacaccc | ggctaattta | tttattttatt | ttgtatTTTT | agtagagacg | gggtttcact | 41160 |
| gtgttagcca | ggatggtctc | tatctcctga | ccttgtgatc | cgcccgctt | ggcctcccaa | 41220 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-------|
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| tattatacca | attgtagact | tagattcata | ttttttttct | ttctttaagc | tctcatctgt | 41340 |
| taattactaa | gggaatttca | catttaataca | ttgctatatg | gtctagaatc | acatgatgac | 41400 |
| aagtaagttg | tgtttaatgc | ccagcctcta | tttgtaatct | agtaggattt | tacatttaaa | 41460 |
| attaaataac | attctttatc | atttttagct | gaaaatggca | aaaacaggag | cagaagatca | 41520 |
| cagagaagca | ctatctcagt | cttccttata | cctcttgact | gaagcaatgg | aagtattaca | 41580 |
| gcaaagtagc | cctgaaggca | ctttggatgg | gaatactgta | aaccaattt | acaaatatat | 41640 |
| tttgaatgat | ttaccaaggt | aagaacatta | tttcagcagc | ttaaactaaa | tactgaaggg | 41700 |
| gataaaagtg | tttatagaaa | gtagtttaaa | ttttcaatca | gtcttggccg | ggccaggtgg | 41760 |
| ctcatgcctg | taatcccagc | actttgggag | gccgaggcag | gtggatcact | tgaggttaga | 41820 |
| agttcgagac | cagcctggcc | aacatggtga | aaccctgtct | ctactaaaaa | tacgaaaaaa | 41880 |
| ttagccggac | atgggtcatg | gaacctgtaa | tctcagctac | tcggaaggct | aaggcaggag | 41940 |
| aatcgcttga | tcctaggagg | tggaggttgc | agtgaactga | gatcatgcca | cttgactcta | 42000 |
| gcctgggcca | cagagtgaga | ctctgtctaa | aaaaaaatgt | ttgagtacag | gtgatataaa | 42060 |
| taagtaactt | tgagatgtgt | tgagttatgg | aggttggtgc | ttagagtaga | gcccttcctt | 42120 |
| ttttctactt | tgtgggaaga | aaaaatgtag | atgatgcaat | aatgtaaaat | tatctctggg | 42180 |
| atctgacttg | aacaggtatc | ataatgataa | taacgataat | ggcaggtagt | acttgttagg | 42240 |
| tgccagtcac | catgcttagc | acttaacctg | cattatatca | attttgttct | caaaacaata | 42300 |
| ctagaggctg | ggtgcagtta | ctcacgcctg | taatcccagc | actttggaag | actgaggcgg | 42360 |
| gcagatcacc | tgaggtcggg | agtttgagac | cagcctgacc | aacatggtga | aaccccatct | 42420 |
| ctactgaaaa | tacaaaaaat | tagcagggct | tggtggtgta | tgcttgtaat | cccagctact | 42480 |
| cgggaggctg | aggcaggaga | atcgcttgaa | ccggggagct | ggagggttgc | gtgagccaag | 42540 |
| atcgcgccat | tgactccag | cctgggtaac | aagagcgaaa | ctctgtctaa | aaaacaaaac | 42600 |
| aaaacaaaac | actaggagga | atataagaca | gatgatagtc | tcaatacctt | tgttttacct | 42660 |
| atgaggaaac | aaaggcagag | agaggtttat | taacttgact | aagcttacac | aactagtaag | 42720 |
| tagtaataaa | gaaggtatgg | tatgaactca | aatgggtcta | acactacagc | atttatcaga | 42780 |
| actgtaaagc | agaggagacg | gtattcttcc | tgtgcttttt | ctctgttaga | aagtgaaaga | 42840 |
| actaaaagat | atttgtcata | cattgataaa | ctattggctg | tctgagtgtg | atgccctagt | 42900 |
| ctttatgtta | aatagaaaac | tgagactata | agaaaatcaa | tatattattc | ataaattaaa | 42960 |
| gattatgtta | atcttcttat | ggaaatgtta | gatcatattt | atttcctaga | tcagtttgaa | 43020 |
| tgtttgctta | tttttgtttg | tgtgtcacta | ggttaagatg | aaagtgaaac | cttgactttc | 43080 |
| agctaattcg | ttttgcttta | ttcctctcag | ctataagtgc | atattagcag | tatatgagat | 43140 |
| cctttataca | gtgcagcttt | taaaaaaatg | aataccctgt | gtgttatatt | gtagggacat | 43200 |
| aagtcactca | tgacttatta | taaaaaaatt | tctaaatagg | attaaatggt | cctttataca | 43260 |
| aatgcccaatt | ctaataataa | gtgtacttac | acatatTTTT | attgccttta | atattttatt | 43320 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|-------|
| ccaattttct | acttcaaaat | ggtgatacat | tcacttttta | ttctaactat | ttttgtgcat | 43380 |
| ttttagctac | tttatttttt | ttatggtaaa | gctaaacgta | ttttcactta | ttcgctctgt | 43440 |
| tcctgctttt | ttcctatttg | ctttctttga | ttgttagtcg | gtttaacact | ggctttattt | 43500 |
| gtccttttca | ttatatgtca | gtctttcttc | tcatgtgaca | ctttcctacc | gctgtttttt | 43560 |
| ctagtttttg | tttcaatgtg | cttcttttgt | ttctttgttt | gaatcctaac | ttcttttctg | 43620 |
| tcactattgc | ctgttaccat | caactttgat | tatgataaac | caagaaaatg | aagtaaccct | 43680 |
| cttcttggca | atcaaatgga | aagctgtaga | caatgctctg | aggcttttta | ccttcatgaa | 43740 |
| aaagaaaatg | atgagtttca | atctgaaagg | ggtcaagttc | ataaaggcta | atggtaattt | 43800 |
| aagagccatt | ggtattaata | tgattatcag | agagaggcaa | ttttctctat | gagtaaagac | 43860 |
| atttcccccc | tgattgaggt | taaaacttct | tttgtctcat | tcttgttttc | cttgccacct | 43920 |
| ttcttctacc | atcttgtggg | ctttttatga | gaagtaatta | ttaaaatata | gtcaatttgt | 43980 |
| ttttcctact | tgtatcacag | agattctgca | tttcttcatt | aattaataca | ctgtactttt | 44040 |
| tacaaaatat | gcctacatat | atatgtatat | atattaagtc | cattcaaagt | agccatacag | 44100 |
| tgaccacttt | attttcttgt | tactatctga | tgctatcagt | ttacttttca | ttatatattac | 44160 |
| attatccact | gtccttcctt | ctgttctttc | tttccatgtg | tttcctctgc | tgctactcca | 44220 |
| tgctgcattt | gcttataaca | cagtgaaaac | ctctgtacca | ggacatgccc | cctcacaga | 44280 |
| aaactaacac | caacattata | aatgttttca | gcttattata | ccaaagggtt | catcctctta | 44340 |
| ttttatgact | caccatttgg | aggctatgtg | actaaaaaaa | tgtagcctca | tttctgtggc | 44400 |
| tacttccagg | aaagtagcac | aatagtaaac | ttttcttgc | cagctgtagt | ctgatgcatt | 44460 |
| cccaagtgac | ccagaattgg | gcaatagcct | tgagagacatg | gatgacagaa | tcagttattt | 44520 |
| attagtaaca | ggtatccagg | catagtttca | ccatattcat | atccagcact | ccaaatgctg | 44580 |
| gagtgggaaga | tctccaaatt | acaattgcat | ttttacatga | ggagaatggt | gtaaacaatt | 44640 |
| agtatatattt | tccatctcaa | tgtaaaatat | gttgttttta | tgattttcaa | ccaattatca | 44700 |
| tctaaggaat | gtgatttaat | gattttttata | atgggaagtt | atagtatttt | ttatcctgct | 44760 |
| ggcagctcag | tacattacca | actcttacia | ttccctgagg | aggaaaatta | cttttagtaa | 44820 |
| aataaatgag | aactgaaatc | agttttttaa | aagtaaatac | taaccatttt | tttgttgtac | 44880 |
| attatctagg | ttactttttc | acaagcaa | cttgctttca | aggatactaa | cagacaccta | 44940 |
| atctattcaa | tcactattta | atgtaatttc | tcttggttac | tttttacttg | gaatgaatct | 45000 |
| tagatccttt | ttgaaatata | aacatttttg | aaatataaac | attgcctttt | ctatggacag | 45060 |
| tttaagttta | gcaacttcag | cattccaaaa | atgaactgtc | gattcccacc | gtggaatgag | 45120 |
| tgacagaagg | gagtgagaag | aaaacagcaa | tagtgaatga | agcatggtca | caccttcact | 45180 |
| gttttagact | cctgctaccc | aagaaattat | attttctcca | gttcataatt | tttttccaga | 45240 |
| tttttccctt | caagccttta | caaataattc | tgacagatcta | catataaata | taatattttc | 45300 |
| tttataaaa | gttaaaagac | tagatcattg | tttctttttg | aaaattttaa | tttcttctgg | 45360 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-------|
| aaaagttgta | tataatat | ataagcccc | cagttttaa | tttcacatat | gccttatttt | 45420 |
| tattcctgta | tacttttaca | caagtaaaaa | accttttttt | tttccttttg | gtggaatgat | 45480 |
| ttatgcccc | gatgctatgc | tcagatgtgt | ctttatgaat | cttggaatt | gttcttcttc | 45540 |
| tttagaagtt | tttcttctgc | aaagtaaaca | agtttaactt | aacaaacact | tattgaatat | 45600 |
| attctatgta | gtatatatgt | agtttgaaca | taacgttttg | gttattattc | aatcattgag | 45660 |
| ttgcaagtaa | aaatttgta | tgtgttataa | aatatcctga | aattgctctg | cagttggaaa | 45720 |
| aacccttata | cacattttta | ggccaaacta | gaattacatt | ttcttctgga | attggaagta | 45780 |
| aaacttttgg | ggaatttttt | acttttatta | ctcattttct | atgatgttta | aattgtattt | 45840 |
| tatcacagaa | tctagcaatt | ggagaaagtt | atttgtatct | ttggaagttt | aagcaagttg | 45900 |
| gagaaagggc | aggatgaagt | ttaataaaaa | ctttgtgctt | tgtgtactta | agagatttta | 45960 |
| taaaagctta | cattcaccaa | acataagtgg | ggttattttct | tttattgggt | gcattccagt | 46020 |
| attttaaaact | gatgattcat | tattgaacat | acttatggtc | atttcccttt | gtgtttatag | 46080 |
| tttatttgta | tatatttcaa | ttcaagagct | taattaccat | taaaatggta | ctataataaa | 46140 |
| gataagtttt | acaaatgata | atattaataa | aaaactcttc | aggaagggtt | aaatgccata | 46200 |
| aaaatataaa | gcaagaaata | tatgcttgct | aaatatacac | tataaataaa | taatttagat | 46260 |
| gaaaatgggt | gactgcattt | aacaaagaga | ctaccaaata | atgaagggct | aaagagtggg | 46320 |
| tgtagatttt | gatgtacttc | atttcatatt | gtaagtaatt | gctatccata | aaaattctat | 46380 |
| ggcttctgta | taagaaaaag | agacattttg | acaggcaaca | cgaatatgaa | gcgacagcaa | 46440 |
| gtacaaatcc | ttggcaactg | tcatttccatt | atcctgctgt | tgaattcaca | tccaaattgt | 46500 |
| gtgataactt | atacctgcat | gtttgttttt | gagccagggg | ctgtcaaagt | agccgcgttt | 46560 |
| cctgcttaag | aatagaatta | ttagccacat | gcaaatttat | gccatagaaa | tctaaaaata | 46620 |
| gcaaggatgt | tttgtgtttc | ataaagaggg | aaaataaaaa | ctccatgtca | ttttatgctt | 46680 |
| atactgaaat | ttccagtga | acgttcctga | ttaaataaaa | gtagaatttt | tagaaaatag | 46740 |
| cagataattt | atattttacc | ttattttgaa | attaattcaa | cattagtaaa | ggtgtttaat | 46800 |
| aaaactaaaa | ataaagcaaa | agtaattcgg | attgtcagtt | acattatact | acatgtccat | 46860 |
| tacatttaat | gcagtagtgg | aaagctgatt | atatgttagg | ccactatcag | tggaaagtaa | 46920 |
| caaaattcaa | ctgaaagtta | ctttaaaaat | gaggaacatt | cattattttca | cataagaaga | 46980 |
| attcagagag | agagcaattt | taggggttaa | ttcagcagtt | cagcagtggt | atcaaaaagt | 47040 |
| ctggctcatt | gtgtctttgc | ctctgccatc | ctcagaatat | tggctagatc | ctttggcttg | 47100 |
| acccctcctg | cttgcaagat | ggctcatcac | atgttcactc | aacaatgtcc | gagtaaagaa | 47160 |
| gatggatggt | tgatcacttg | tatctctttt | tcattagggc | aaataacctt | tctgtaaaag | 47220 |
| attttttatg | tctcattggc | caaaattaga | tcacaagcag | attacttaac | ctgccagggg | 47280 |
| caagggaaat | gaaattacca | tcattggctt | tagaccattg | aagatttact | cactggagct | 47340 |
| gatcgtagga | tactttccat | ggacatataa | ggaagatgaa | ttcttaaaaa | taaccgagac | 47400 |
| tttatctaag | aagaaatggg | ggaaatgact | tacatagata | atcaacatta | cctgacataa | 47460 |

sequece listing.TXT

| | | | | | | |
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| ctcttggtt | cagctttctt | ttattttatt | tcttaaattg | tgtttgtttc | ttttcagtgg | 47520 |
| tatttgata | catttttgca | cgctgtcata | attatcaaag | aataattcct | gcataatcgac | 47580 |
| cactgattga | gttcctgtgg | aatgtagca | gatgtaaaac | aaggatctta | ctcttgcaga | 47640 |
| gtgggatctg | aatcatctt | aatcatata | accgataaca | aagcaaacat | ggcaatatgc | 47700 |
| aaaacaggac | atcaatttat | acaaagggcc | tgggaaaatg | atttagaata | aggaataact | 47760 |
| atgatctgac | agaattaact | tctcttaggt | gtcttgtcat | cctaaacagt | tttggtgagg | 47820 |
| ccttttccat | gaccctaacc | cctggaattt | ttcccttcag | taaccagggc | tttttcttca | 47880 |
| gagctaactg | tgatcagtaa | ttgtaaattt | atatgtgtaa | ctatttaata | gttctctctt | 47940 |
| tcacctgaca | attaatatta | ttatgaaaga | gtttctagaa | aatgtaagtt | ctgagttgag | 48000 |
| atcaacattt | attaaatatt | tattttttga | agggagtaca | gtaataggta | tagattagct | 48060 |
| gagtgaacac | aattggtaaa | aaggatgca | gggcggggag | gagccaagat | ggccgaatag | 48120 |
| gaacagctcc | ggtctacagc | tcccagcgtg | agcgacgcag | aagacgggtg | atttctgcat | 48180 |
| ttccatctga | ggtaccgggt | tcatctcact | agggagtgca | agacagtggg | cgcaggccag | 48240 |
| tgtgtgtgtg | caccgtgcgc | gagccgaagc | tgggcgaggc | attgcctcac | ctgggaagcg | 48300 |
| caaggggtca | gggagttccc | tttccaagtc | aaagaaaggg | gtgacggacg | cacctggaaa | 48360 |
| atcgggtcac | tcccacccga | atattgcgct | tttcagaccg | gcttaagaaa | cggcgcacca | 48420 |
| cgagactata | tcccacacct | ggctcagagg | gtcctacgcc | cacggaatct | cgctgattgc | 48480 |
| tagcacagca | gtctgagatc | aaactgcaag | gcggcaacga | ggctggggga | ggggcgcccg | 48540 |
| ccattgcca | ggcttgctta | ggtaaacaaa | gcagccggga | agctcgaact | gggtggagcc | 48600 |
| caccacagct | caaggaggcc | tgcctgcctc | tgtaggctcc | acctctgggg | gcagggcaca | 48660 |
| gacaaacaaa | aagacagcag | taacctctgc | agacttaagt | gtccctgtct | gacagctttg | 48720 |
| aagagagcag | tggttctccc | agcacgcagc | tggagatctg | agaacgggca | gactgcctcc | 48780 |
| tcaagtgggt | ccctgacccc | tgacccccga | gcagcctaac | tgggaggcac | ccccagcag | 48840 |
| gggcacactg | acacctcaca | cggcagggtg | ttccaacaga | cctgcagctg | agggctctgt | 48900 |
| ctgttagaag | gaaaactaac | aaccagaaag | gacatctaca | ccgaaaaccc | atctgtacat | 48960 |
| caccatcatc | aaagacaaa | agtagataaa | accacaaaga | tggggaaaaa | acagaacaga | 49020 |
| aaaactggaa | actctaaaat | gcagagcgcc | tctcctcctc | caaaggaacg | cagttcctca | 49080 |
| ccagcaacag | aacaaagctg | gatggagaat | gattttgacg | agctgagaga | agaagacttc | 49140 |
| agacgatcaa | attactctga | gctacgggag | gacattcaaa | ccaaaggcaa | agaagttgaa | 49200 |
| aactttgaaa | aaaatttaga | agaatgtata | actagaataa | ccaatacaga | gaagtgtcta | 49260 |
| aaggagctga | tggagctgaa | aaccaaggct | cgagaactac | gtgaagaatg | cagaagcctc | 49320 |
| aggagccgat | gcgatcaact | ggaagaaagg | gtatcagcaa | tggaagatga | aatgaatgaa | 49380 |
| atgaagcgag | aagggaagtt | tagagaaaaa | agaataaaaa | gaaatgagca | aagcctccaa | 49440 |
| gaaatatggg | actatgtgaa | aagaccaa | ctacgtctga | ttggtgtacc | tgaaagtgat | 49500 |

sequece listing.TXT

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-------|
| gtggagaatg | gaaccaagtt | ggaaaacact | ctgcaggata | ttatccagga | gaacttcccc | 49560 |
| aatctagcaa | ggcaggccaa | cgttcagatt | caggaaatac | agagaacgcc | acaaagatac | 49620 |
| tcctcgagaa | gagcaagtcc | aagacacata | attgtcagat | tcaccaaagt | tgaaatgaag | 49680 |
| gaaaaaatgt | taagggcagc | cagagagaaa | ggtcgggtta | ccctcaaagg | aaagcccatac | 49740 |
| agactaacag | cggatctctc | ggcagaaacc | ctacaagcca | gaagagagtg | ggggccaata | 49800 |
| ttcaacattc | ttaaagaaaa | gaattttcaa | cccagaattt | catatccagc | caaactaagc | 49860 |
| ttcataagt | aaggagaaat | aaaatacttt | atagacaagc | aatgctgag | agattttgtc | 49920 |
| accaccaggc | ctgccctaaa | agagctcctg | aaggaagtgc | taaacatgga | aaggaacaac | 49980 |
| cagtaccagc | cgctgcaaaa | tcatgccaaa | atgtaaagac | catcaagact | aggaagaaac | 50040 |
| tgcatcaact | aatgagcaaa | atcaccagct | aacatcataa | tgacaggatc | aaattcacac | 50100 |
| ataacaatat | taacttttaa | tataaatgga | ctaaattctg | caattaaaag | acacagactg | 50160 |
| gcaagttgga | taaagagtca | agacccatca | gtgtgctgta | ttcaggaaac | ccatctcacg | 50220 |
| tgcaagggca | cacataggct | caaaaataaaa | ggatggagga | agatctacca | agccaatgga | 50280 |
| aaacaaaaaa | aggcaggggt | tgcaatccta | gtctctgata | aaacagactt | taaaccaaca | 50340 |
| aagatcaaaa | gagacaaggc | cattacataa | tggtaaaggg | atcaactcaa | caagaggagc | 50400 |
| taactatcct | aaatatattat | gcaccaata | caggagcacc | cagattcata | aagcaagtcc | 50460 |
| tcagtgacct | acaaagagac | ttagactccc | acacattaat | aatgggagac | tttaacaccc | 50520 |
| cactgtcaac | attagacaga | tcaacgagac | agaaagtcaa | caaggatacc | caggaattga | 50580 |
| actcagctct | gcaccaagca | gacctaatag | acatctacag | aactctccac | cccaaataca | 50640 |
| cagaatatac | atTTTTTTca | gcaccacacc | acacctattc | caaaattgac | cacatagttg | 50700 |
| gaagtaaagc | tctcctcagc | aatgttaaaa | gaacagaaat | tataacaaac | tatctctcag | 50760 |
| accacagtgc | aatcaaaacta | gaactcagga | ttaagaatct | cactcaaagc | cgctcaacta | 50820 |
| catggaaact | gaacaacttg | ctcctgaatg | actactgggt | acataacgaa | atgaaggcag | 50880 |
| aaataaagat | gttctttgaa | accaacgaga | acaaagacac | cacataccag | aatctctggg | 50940 |
| acgcgttcaa | aacagtgtgt | agagggaaat | ttatagcact | aatgcctac | aagagaaagc | 51000 |
| aggaaagatc | caaaattgac | accctaacat | cacaattaaa | agaactagaa | aagcaagagc | 51060 |
| aaacacattg | aaaagctagc | agaaggcaag | aaataactaa | aatcagagca | gaactgaagg | 51120 |
| aaatagagac | acaaaaaacc | cttcaaaaaa | tcaatgaatc | caggagctgg | TTTTTTgaaa | 51180 |
| ggatcaacaa | aattgataga | ccgctagcaa | gactaataaa | gaaaaaaaga | gagaagaatc | 51240 |
| aaatagacac | aataaaaaat | gataaagggg | atatcaccac | cgatcccaca | gaaatacaaa | 51300 |
| ctaccatcag | agaatactac | aaacacctct | acgcaaataa | actagaaaat | ctagaagaaa | 51360 |
| tggatacatt | cctcgacaca | tacactctcc | caagactaaa | ccaggaagaa | gttgaatctc | 51420 |
| tgaatagacc | aataacaggc | tctgaaattg | tggcaataat | caatagttta | ccaacaaaaa | 51480 |
| agagtccagg | accagatgga | ttcacagccg | aattctacca | gaggtacaag | gaggaactgg | 51540 |
| taccattcct | tctgaaacta | ttccaatcaa | tagaaaaaga | gggaatcctc | cctaactcat | 51600 |

sequece listing.TXT

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-------|
| tttatgaggc | cagcatcatt | ctgataccaa | agctgggcag | agacacaacc | aaaaaagaga | 51660 |
| attttagacc | aatatccttg | atgaacattg | atgcaaaaat | cctcaataaa | atactggcaa | 51720 |
| accgaatcca | gcagcacatc | aaaaagctta | tccaccatga | tcaagtgggc | ttcatccctg | 51780 |
| ggatgcaagg | ctggttcaat | atagccaa | caataaatgt | aatccagcat | ataaacagag | 51840 |
| ccaaagacaa | aaaccacatg | attatctcaa | tagatgcaaa | aaaagccttt | gacaaaattc | 51900 |
| aacaaccctt | catgctaaaa | actctcaata | aattaggtat | tgatgggacg | tatctcaaaa | 51960 |
| taataagagc | tatctatgac | aaaccacag | ccaatatcat | actgaatggg | caaaaactgg | 52020 |
| aagcattccc | tttgaaaact | ggcacaagac | agagatgccc | tctctcaccg | ctcctattca | 52080 |
| acatagtgtt | ggaagttctg | gccagggcaa | tcaggcagga | gaaggaaata | aagggatttc | 52140 |
| aattaggaaa | agaggaagtc | aaattgtccc | tgtttgcaga | cgacatgatt | gtttatctag | 52200 |
| aaaaccccat | cgtttcagcc | caaaatctcc | ttaagctgat | aagcaacttc | agcaaagtct | 52260 |
| caggatacaa | aatcaatgta | caagaatcac | aagcattctt | atacaccaac | aacagacaaa | 52320 |
| cagagagcca | aatcatgggt | gaactcccat | tcacaattgc | ttcaaagaga | ataaaaatacc | 52380 |
| taggaatcca | acttacaagg | gatgtgaagg | acctcttcaa | ggagaactac | aaaccactgc | 52440 |
| tcaaggaaat | aaaagaggac | acaaacaaat | ggaagaacat | tccatgctca | tgggtaggaa | 52500 |
| gaatcaatat | cgtgaaaatg | gccatactgc | ccaaggtaat | ttacagattc | aatgccatcc | 52560 |
| ccatcaagct | accaatgact | ttcttcacag | aattggaaaa | aactacttta | aagttcatat | 52620 |
| ggaaccaaaa | aagagcccg | attgccaagt | caatcctaag | ccaaaagaac | aaagctggag | 52680 |
| gcatcacact | acctgacttc | aaactatact | acaaggctac | agtaaccaa | acagcatgat | 52740 |
| actggtacca | aaacagaaat | atagatcaat | ggaacagaac | agagccctca | gaaataatgc | 52800 |
| cgcatatcta | caactatctg | atctttgaca | aacctgagaa | aaacaagcaa | tggggaaagg | 52860 |
| attccctatt | taataaatgg | tgctgggaaa | actggctagc | catatgtaga | aagctgaaac | 52920 |
| tggatccctt | ccttacacct | tatacaaaaa | tcaattcaag | atggattaaa | gatttaaacg | 52980 |
| ttagacctaa | aaccataaaa | accctagaag | aaaacctagg | cattaccatt | caggacatag | 53040 |
| gcgtgggcaa | ggacttcatg | tccaaaacac | caaagcaat | ggcaacaaaa | gccaaaattg | 53100 |
| acaaatggga | tctaattaaa | ctaaagagct | tctgcacagc | aaaagaaact | accatcagag | 53160 |
| tgaacaggca | acctacaaca | tgggagaaaa | ttttcgcaac | ctactcatct | gacaaagggc | 53220 |
| taatatccag | aatctacaat | gaactcaaac | aaatttacia | gaaaaaaaca | aacaacccca | 53280 |
| tcaaaaagt | ggcgaaggac | atgaacagac | acttctcaaa | agaagacatt | tatgcagcca | 53340 |
| aaaaacacat | gaagaaatgc | tcatcatcac | tggccatcag | agaaatgcaa | atcaaaacca | 53400 |
| ctatgagata | tcatttcaca | ccagttagaa | tggcaatcat | tacaaagtca | ggaaacaaca | 53460 |
| ggtgctggag | aggatgtgga | gaaataggaa | cactttttaca | ctgttggtgg | gactgtaaac | 53520 |
| tagttcaacc | attgtggaag | tcagtgtggc | gattcctcag | ggatctagaa | ctagaaatac | 53580 |
| catttgaccc | agccatccca | ttactgggta | tatacccaaa | ggactataaa | tcattgctgct | 53640 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|-------|
| ataaagacac | atgcacacgt | atgtttattg | cggcactatt | cacaatagca | aagacttgga | 53700 |
| accaaccgaa | atgtccaaca | atgatagatg | gattaagaaa | atgtggcaca | tatacaccgt | 53760 |
| ggaatactat | gcagccataa | aaaatgatga | gttcatatcc | tttgtaggga | catggatgaa | 53820 |
| attggaaacc | atcatttctca | gtaaactatt | gcaagaacaa | aaaaccaaac | accgcatatt | 53880 |
| ctcactcata | ggtgggaatt | gaacaatgag | atcacatgga | cacaggaagg | ggaatatcac | 53940 |
| actctgggga | ctgtgggtggg | gtcgggggag | gggagaggga | tagcattggg | agatatacct | 54000 |
| aatgctagat | gacacattag | tgggtgcagc | gcaccagcat | ggcacatgta | tacatatgta | 54060 |
| actaacctgc | acaatatgca | catgtaccct | aaaacttaga | gtttaataaa | aaaaaaaaaa | 54120 |
| aaaaaaaaagg | tatgcagatg | gccgggcatg | gtggctcacg | cctgtaatcc | cagcaatttg | 54180 |
| ggaggcccag | gtgggcggat | cacaaggcca | ggagatcgag | accatcctgg | ctaacacggt | 54240 |
| gaaaccccct | ctctactaaa | aatacaaaaa | attagccggg | catggcagcg | tgcacctgta | 54300 |
| gtctcagcta | ctcgggaggc | tgaggcagga | ggatggcgtg | aacctgggag | gtggagcttg | 54360 |
| cagtgcgagc | agactgtacc | agtgcagcca | gactgtacca | ctgtactcca | gcctgggtga | 54420 |
| cagagcgaga | ctctgtctca | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaagg | gtatgcaaat | 54480 |
| aggaactatg | gaaggcaatg | tgggtgtagt | atagctgagg | gatattacag | gggagtaatg | 54540 |
| agcagcacca | cttggtagaa | attgttgaat | gtgagaccaa | gaagtatgat | tttactagga | 54600 |
| gttttcttca | aattgctata | aaaagtcact | aaggtttact | aatgccatta | aggagaggaa | 54660 |
| atgagaaaaa | ttgttcttgt | caaactctgt | gtcatctcct | taattcttat | ggtctactta | 54720 |
| cctgtttttt | tctgtactcc | ttcctaagaa | tattttctta | tatttttaga | ccttaaagat | 54780 |
| tacttagttg | ttgctttgtg | aagcaaaaat | tgtaaactag | atttaaatgaa | aatctcagag | 54840 |
| agtaagcata | attaaatgct | accctgaaat | atcaagaggg | ttgtaaattc | caccatgttt | 54900 |
| aagatcttta | ggacctgtaa | atataatgag | atatcaccat | catgattaag | tttcattata | 54960 |
| tggcaaaaaga | gaaaagattt | ctgcagatgt | cgtaaagtga | cataatcagt | tatctttaag | 55020 |
| ttaattaaaa | gggagattat | tctgggtgtg | cctgacctaa | tcagataaac | tcttaaatga | 55080 |
| tagcgatcat | agattgataa | cttagaaaagc | taagctattc | ctggcctcaa | aaaagatgat | 55140 |
| agtcagtata | agttctatag | cagtcaagaa | ctgaattctg | gcaccaacct | gaatgagctt | 55200 |
| ggaagaggac | cctgagcatc | agatgagact | gcagccccag | ctgacacctt | gatttcagct | 55260 |
| ctgtgagatt | ctgaacagag | gatccagcta | agctttgccc | agactctgga | cctacagaaa | 55320 |
| tagtgtgctc | ataaatagat | gttattttta | gccactaatt | ttgtggtagt | ttgttgtgct | 55380 |
| tcaatagatg | tacaactaat | aatggatgga | gaagtaaattg | gtaggtaggt | aggttagata | 55440 |
| tataaataga | tttttaaagg | aagtgtactt | atgaggtaat | atgattaatg | ttcttgtatt | 55500 |
| aatccatttt | agtgaattt | aaacttcagg | cttaaaaaga | atgcttctat | atcatggcaa | 55560 |
| aagattaaat | aatgcaatga | taaattgaaa | tgtttgacag | aaattaaagg | ctagcatttt | 55620 |
| atatgatagg | aaataaccaa | tgagatatag | taattctggc | tatcaaatca | tccagggcag | 55680 |
| gtgtggatgc | acagggagga | agcacattcc | ttcatgtggg | gttgcatag | aaatcatact | 55740 |

sequece listing.TXT

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-------|
| gaaaaaggaa | ctactttgtc | tgtttatatg | tgagttat | acagatgtaa | tgaaaaat | 55800 |
| gcagtagaga | catatacact | tccaggacaa | gatgatcaat | ctgtcagaaa | tattaaaaag | 55860 |
| aaaatctatg | ttataaaatt | agcccagggt | ccagaatggt | atagaaaatc | tcaacagtag | 55920 |
| gtgaggagaa | ggtgagggtt | ttgttgtgtt | ttgttttttg | tttttgtttt | tgtctttgga | 55980 |
| caaaagacca | ttttctagaa | caactgggtt | aggaattcac | atgcaaagga | actatacctg | 56040 |
| ttcacggaga | ctacatatgg | gccaatgagt | aaaaataacc | acagcactaa | attaaattta | 56100 |
| gtatcagttg | ggaaagacaa | aattcagcaa | aactatcata | caacttactg | aatttttagaa | 56160 |
| aagatatctg | tgtagatcct | aatgtagatc | ttaaaaatgt | agatcttaaa | ataaattata | 56220 |
| atgtaaaatg | tatataatta | atagttctca | agaagcacag | gaaggacagg | atgcaaaacc | 56280 |
| tcaagctcga | gcaaggaata | ttctggagct | gagctccctg | cataaggcta | ggaccctga | 56340 |
| aagacagatg | cacctattca | tgaaaatggg | aacaaaggta | ttgttcatca | gccctaggaa | 56400 |
| gcaacaataa | acagatataa | tgtgttttaa | ggtttgtgca | ttgtctggaa | agtaatgagt | 56460 |
| aagtaatcat | gttaaacttt | aataggacaa | ggattcatat | tgtaatggct | agcataacca | 56520 |
| gtaaaaataa | agttaagcaa | atgtgtaact | tataacctaa | tagaaaggga | aattaaataa | 56580 |
| tggaaaatta | ttttttaatc | taaacaaaga | caacaagtga | aaaagagcat | agaacagata | 56640 |
| ggtaaaacag | aaaacaaata | gcaaatatat | taggggttctc | cagagaaaca | gaaccagtag | 56700 |
| gttttaatat | tttattttat | ttttaaat | atacttttaa | aataaatatt | ttatttgact | 56760 |
| ttaaaat | ttgtaatt | ttttagagac | gaggctctgc | tctgttgccc | aggctgatct | 56820 |
| tgaactccct | gtttcagcaa | tcctcccacc | tcagcctccc | aaagtgctgg | gattacaggc | 56880 |
| ataagccacc | catgtccagc | ctatatactg | catattttgt | ttatatatta | tatatgtaca | 56940 |
| taggataagg | tgttggctca | cccgattatg | gaggctgtga | agtctcatga | ttagtcatct | 57000 |
| acaagctgga | gaccaggaa | aaccagtgg | gtggttcaaa | ggcctgagag | acagagggcc | 57060 |
| attgctgtag | ttccaatct | gagtctgaag | gcctgagaaa | caagagtga | cagaacaggg | 57120 |
| aagattaatg | tcctagctga | agcagtaagg | cagaggaagc | cagattccaa | ccttctttgc | 57180 |
| cttttcggtc | taatcaggcc | ctcaacagat | tgaatgatgc | ccacctgccc | tggggagggc | 57240 |
| catctgcttt | acttgggtcca | ccagttcaaa | tgctaattctc | ttctggaaac | atcctcacag | 57300 |
| acacaccag | aaataatggt | tcctcagata | tctgggcata | ctgttgcccta | gtcaagttga | 57360 |
| tacataaaat | taatcatcac | agcaagattg | tagacataag | ttcaaatacc | gtaagccctt | 57420 |
| ggtttactca | tctggaaaag | gggaataata | atacagggt | gttgtgagga | ttaaattata | 57480 |
| aatatatata | aaatgcttag | aacagtgtct | gacataaatg | ctatgtaggc | attagctatt | 57540 |
| agtattgtta | ctatcattgt | caatatggag | ggcatgatat | atgatttata | ccttgccctag | 57600 |
| cctggatgag | agtcctcata | attgggcaag | taaggaccaa | aagctgatgg | aactgttgag | 57660 |
| agaagactcc | ttagggctct | accacaagt | tgagctgctt | cagagtttcg | gtgacttaat | 57720 |
| aggacagggt | tggagagggt | tctcttttca | tcatccctat | actagattct | tctggcccca | 57780 |

sequenece listing.TXT

| | | | | | | |
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| agcactagaa | tctttgggaa | cactctgagg | tagtaccttg | gcatggacct | cattgttctt | 57840 |
| gtgactggtc | gtggcagcag | agaggcagtg | agagaagaga | gtggaaacag | ctgtgactct | 57900 |
| taccaacata | tttttatagg | gacataggag | atactttcag | aaattttataa | tgtaccactt | 57960 |
| tgaggactct | cagaaataaa | tggggaggat | tttgagggag | taataaattc | ctgtattatg | 58020 |
| atgatcaggt | tatcatgctg | gcagttgttt | gtgttaaatt | cttcaccctc | aagattggca | 58080 |
| tctttaggat | tgctgaggag | cacaatcctt | ccttttgatc | cacatctctt | tgggccaaca | 58140 |
| ttgacataga | ctgttgggcc | agatggtcca | gagactgggc | ctgcaatcat | ggcactgtat | 58200 |
| tcttatattc | ctctgtgatt | agaagtgaag | aactaatatt | aaaataatca | aaagaatcag | 58260 |
| agcagtgttt | cagcagttgt | tacatttaaa | cacttctgac | agaaatttaa | attgtatgat | 58320 |
| gtattttagt | gaatacttta | aaaatcaatc | aatatatagt | gtctctgctc | atcttagtgt | 58380 |
| gccagacagg | ccatgcaagt | ccccacccaa | ttatattttc | cctgttttga | aggcactgac | 58440 |
| agcccatatt | accctacctc | ctgtgtacct | ccattgtgca | tcctgctgtc | ctatctccag | 58500 |
| ctgggccgtt | gctaggtact | ttcccatatg | caggcttgcc | agtagcatga | ggttgcctca | 58560 |
| cataagagtt | ctaccaaca | ggggtgtcct | atcctgtgta | gtgatgaaat | taaactcttt | 58620 |
| gaggaatttg | aacgtaagtc | atatagacag | agactgaaga | aagtaattta | gcatagaaat | 58680 |
| gaggagacac | atagaggaag | ttagcagaag | ccatgaggaa | agggggagga | tagaggtaaa | 58740 |
| tcaggcaata | atgatgtatg | aagaagaggc | aggtagacac | agaaggagat | aggaggtgct | 58800 |
| gagtcaaaaa | gcatggagtc | tactagaatt | aagtcactag | tgtatccttg | acagccatga | 58860 |
| atggccttcc | aattttttgtg | ccctgcagga | gtggttttat | ttactttcat | aactttctat | 58920 |
| gtatcttgat | aataagcctt | atcacttgaa | gcctaagtgt | gcctctctgt | ttctggaaag | 58980 |
| ctgaaggaac | ctaacaccct | tcattccagc | accagttag | caaactgact | atgtggggtt | 59040 |
| aattcccatg | tgggacaagt | tggctttgca | agggtatgta | atcatccttt | ccaacaccta | 59100 |
| acaagctatg | aaacacctat | caattgttat | aagaaagatg | agtttgagag | tgtgtaagaa | 59160 |
| ctactgaggc | tgggcgcggt | gtaatcccag | cactttgaga | ggccaagggtg | ggaggatcat | 59220 |
| gaagtcagga | gattgagacc | atcctggcta | acatggtgaa | acaccgtctc | tactaaaaat | 59280 |
| acaaaaaatt | cagctgggcg | tggttgcatg | cgctgtagt | ctcagctact | caggaagctg | 59340 |
| aggcagaaga | atcgcttgaa | cctgggaggc | agatgttgca | gtgagctgag | attgcgccac | 59400 |
| tgcactccag | cctgggcaac | agagcaatac | tccatctcaa | aaaaaaaaaa | aaaaaaaaaa | 59460 |
| aaaaaatcaa | gaattactga | aaacctgtcc | tcaatgttgt | aaaacatatc | aaagctgaag | 59520 |
| actattcata | gtggaccaat | aatattaact | ctttaacata | aaaaactacc | ccttctccca | 59580 |
| ctttcagata | taaattacta | gagaaaacca | agtaataaat | aaacaaatat | atagttgaac | 59640 |
| catatatatta | aatttaatta | tttttaccat | tactgggta | aatctataat | ctcttgctct | 59700 |
| aaccctatca | ggatcatgtg | gagttgggaa | gagtttgcat | tcccaaaaga | atgcaagtgc | 59760 |
| tgttaccaga | agatggggaa | gatgtgtgtg | acaaacaaaa | atgatagaca | gcccattgcat | 59820 |
| aactaggtag | aagagggcta | tatcaatata | gttgataaaa | tattatattc | cagtaaaatc | 59880 |

sequece listing.TXT

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-------|
| catacagagc | atagagcaac | atgaataatg | gttataaaac | agtatttagt | cagaaggcaa | 59940 |
| tagaattgag | gatataacat | gattaaaact | tcagaatatg | aaaaagtaaa | aaccttttgc | 60000 |
| cttgtggtgg | tagaataatg | gattgttatg | ttaaaaatca | ttagtatatt | tataagaata | 60060 |
| tttcataatg | aaaaaaatac | attcattaac | aaagacacct | tattctactt | ttaagtaggg | 60120 |
| aattccattt | ttttaaaaaa | atatgggaat | ctgctcttca | agtaactatt | tattggaaac | 60180 |
| ttggaactgt | ttatgaaatc | tgtgattctt | tcccctggct | gtttactggt | cttccccag | 60240 |
| gttgaagagc | ttggtaaccg | tgtgaagctc | cattgctatt | gctgcagaaa | cactgccagt | 60300 |
| ttgaaatgac | tgctgccaca | tgccgtcact | caccaccgtt | atcaaaatct | gagtggctta | 60360 |
| gggtggtctgc | agggaggtcc | cacttttgcc | agagctagtc | caaagaccct | ttcaaggcgt | 60420 |
| tgtttgccac | agttttgagc | ctggttatat | ccaatgtgta | gggaaggctg | ctcctctccc | 60480 |
| cagtactgta | ctcagtctag | ggcagacttg | gatagaaaca | tgtgatgata | acaacaacag | 60540 |
| cagaatacaa | ctgcttggat | tccagaggtg | tagttcccct | gggtccactg | tgtgagctca | 60600 |
| cacacataca | cacacacaca | cacacacaca | caaacatcta | ttttccctct | gatgtgtgac | 60660 |
| taccattcat | tttttcagag | gaaataattg | accattttac | tcgtttgtga | ccataaagag | 60720 |
| ggcaggctgg | aagaaataat | tgtgattata | atgacatttg | tggatgtgaa | agatttgag | 60780 |
| gaggggcaat | ccctgctgag | ctttcaacac | tgaacatatg | ttaattttata | attgggggtg | 60840 |
| tgtttggggg | ggttatatta | tgcaataact | attgaggaat | gagcaaattg | gaaagaagca | 60900 |
| gatttggttt | gtgcaaagat | acttccgatt | atggtaatac | atggaacctg | actatcctct | 60960 |
| atgtgtgatc | accacacagc | tcaatatttg | caaatatatt | aaaacttatt | ttattttatc | 61020 |
| ataccggtat | attctatacc | tattcatctt | cccaacttgg | tgtctatata | gattaatata | 61080 |
| ttcttccagg | tcatgtgggt | ccctgttcac | acatcatagt | tcatccacat | actactcttc | 61140 |
| cagcctaaat | accagtaggg | tgaccaactg | accagtttta | tctgagactg | agggagttcc | 61200 |
| tggaatgtgt | gaccctcagt | gccaaaacca | ggatagtcct | gaacagagat | gagttaggct | 61260 |
| aatctcaggt | ctgctgtgaa | gcctttaccg | actttatttc | caccatttct | aaaatggcct | 61320 |
| tcaatgaatt | attttcatct | ttaaggctaa | tacacactca | gtttcagttt | atttaacata | 61380 |
| tattctctat | tgggggattg | tttgcaagtt | tcttgagggt | aggaccaca | tatttttaac | 61440 |
| agcagagtgc | taagtaagta | ttagaaaata | aagtggatct | aagaatttaa | aagttatact | 61500 |
| tacattgttt | taaacattat | gcaagcttcc | ttttggttga | attaagtaaa | gcaatgaagc | 61560 |
| ttaatggtta | tgaatgtgga | ttttatttca | ggacaggctt | gggttcaa | tcccatcctg | 61620 |
| tcagttattg | attatgtgac | agtgggcaag | ttaattaacc | tactgattc | tcaatttctt | 61680 |
| aaatctgtaa | aatgggaata | aaaataataa | ccacttccca | ggaatattgt | aggcattaaa | 61740 |
| caaaataatg | gctaagtgtg | tagtattttg | tgtagcacat | agcacacaac | tcgttattat | 61800 |
| atggtatttg | ttaataaatg | attacaaatc | aattaattgt | attcttccat | gcattgtttc | 61860 |
| ttccagagag | tttatgtcat | cccaggcaaa | agcagttatt | aaaactactg | atgattattt | 61920 |

sequenece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|-------|
| gcagtctcag | tttggcccca | acagactcgt | gcattcagca | gcagtatcag | aaggggtcagg | 61980 |
| acttcaagat | tgctccacac | atcaaacagc | atcagatcac | agccatgatg | aaatatcaga | 62040 |
| cctagatagc | tacaaatcaa | acagtaaaaa | caattcttgt | tctatatcag | catccaagag | 62100 |
| aaacagacct | gtcagtgtc | cagtgggtca | actgaggtaa | tcaaagctgt | tctctgttct | 62160 |
| ttttaaccta | ttgttgaagt | tctttccttt | gagcagagtt | tataatgttt | caattgacta | 62220 |
| tctcagacat | taaaatgtaa | cacatctctc | gggttttgtt | tttgtttttg | tttttttctt | 62280 |
| tgaaagcacc | agagtagaat | gttggttaatt | acactgtggg | aaatatgaga | tacacttcaa | 62340 |
| cccgggcaat | cagaaactct | gaaaagaata | tttgaagcag | aatcaggcta | ggatcatgaa | 62400 |
| atatctttgc | tcacacgaac | ttatttaaaa | ataaaaatgc | tttcttttga | tatttaacca | 62460 |
| atagtttgaa | acagaattga | attgaatgaa | attattataa | aacaattttg | taaatatgtt | 62520 |
| ttcacatcaa | attgttatca | taaactgtta | acatgagagt | tcatagacag | aagaaaatat | 62580 |
| tagtaaaaac | aaaaatcaaa | ccaagaaact | aatacccccac | tattttcaaa | tgtttgaata | 62640 |
| tgtggatatg | ttgtgttttt | aatttgtgtg | acatttttat | tttaaaatat | ttactcttct | 62700 |
| tctgtggcat | tacaaattaa | cttggttagt | tagagaatta | tgaagaaaat | ttgacgttag | 62760 |
| tcagtttacc | acatactttt | gctgagaaaa | atcataaata | tcaaaattag | ttttgcctga | 62820 |
| agacaaaact | tagaaatctt | caccgttacc | acttccgaac | agtttgaaat | gagagcaata | 62880 |
| caattaacct | tggaatcaaa | attttaaaat | caaataattt | tgaattttaa | acatttttta | 62940 |
| aaaaagttaa | agaactttga | taaacctgaa | aacttggata | gaatcttagc | catttgctgt | 63000 |
| ttcatgatat | taagaccata | ttactatttt | ttgctatcag | aacatatctc | atatatataa | 63060 |
| tttttagttg | catataatat | atatatattt | taaaaggact | gttgtgtttt | ataagtaaag | 63120 |
| tgataagaat | catttattct | gatatatatg | ttttatatga | gcagttttgg | caaacactgt | 63180 |
| gttttaaat | tttttgaata | tttaaatagt | gagagtgtta | ctctgtaaca | acaatcttat | 63240 |
| cctataaaaa | gttttgttag | gtatacttat | atacatagga | acaatcttta | gtgcttatat | 63300 |
| ctgtttaaaa | aaatccagga | taatatttat | ttaaaagctt | tcactaatta | gcatgcatca | 63360 |
| atttttctgt | ttttcttttt | cttcagggtt | gcagagttct | cttcttttaa | atttcagtca | 63420 |
| gcccgggaatt | ggcagaaatt | gtctcaaaga | cacaaacttc | aaccaagagt | gattaaagta | 63480 |
| acagcttaca | aaaatggatc | tagaacagtc | tttgccagag | ttactgtacc | aaccatcacc | 63540 |
| ttggtaacta | gtgttcctaaa | gttttctgtg | ctttattttt | tttcccttac | tctctttata | 63600 |
| atataaaaaa | tgagaaaatt | attgttaata | ttttcttttt | gagaatctga | atctaccgat | 63660 |
| tgcttatata | tacgtagatt | tcataggaat | ttcactcctc | tcctttttta | aaaaaattca | 63720 |
| atatataaac | agtgtattta | aacagatgaa | actctacaat | accttgtaga | gttattaaaa | 63780 |
| tgacagatca | tttaaagtgt | aaatttagtc | aataattaga | tatgcttcat | gctgtgactt | 63840 |
| accttttatt | tctatatttt | caactgctag | aaaataactg | tattggcaag | tgactcaatt | 63900 |
| gggtttctat | tttgatcatt | agaacctttt | gttttgaggg | aaatatatta | ctttctttgt | 63960 |
| agtaaatcac | tttgacttac | ctcttgcttt | cttctagctg | ctggaggagt | gcacagaaaa | 64020 |

sequece listing.TXT

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-------|
| gctgaatctg | aacatggccg | caagacgagt | gttcttggca | gacggcaagg | aagccctcga | 64080 |
| acctgaagat | atacccatg | aagccgatgt | ttatgtttca | acgggagagc | cctttttaaa | 64140 |
| tccattcaaa | aaaattaaag | gtaaaaaaga | tctaaaaaat | accctacccc | cacacatact | 64200 |
| gaattgctta | aggggtgcaa | ttaaaaaatg | attttcatcc | tgtctttttt | gcatggttta | 64260 |
| acaaaactaa | tgtttacgca | tttacagctc | agtaagagga | taatgtgctt | aatgaaagaa | 64320 |
| aaatccactg | acagccacgt | ttattgccct | tcattagcat | tggtgcttaa | tttaatatag | 64380 |
| atctgaatag | acattagggg | gcctgcagga | ggttaaattg | tgaaaatata | ataaattaaa | 64440 |
| tcagagatta | ttgaatttac | tgtttagttt | ctgtgacact | caacagacat | aattcattag | 64500 |
| acttatcctc | tcagaaaata | gttcaaagtt | ttaagtatca | tttattcatt | tacactcttg | 64560 |
| gtcttttttc | agatagtatc | aacataatta | tgaaaatgtg | gccaataatg | aacatacatt | 64620 |
| tcttatatac | atatgattct | cctaataacg | tatttcataa | gaaatgttcc | agcttgatta | 64680 |
| ttttttaacc | ttaaaatgta | taatataatc | ctacacatat | tttcaattaa | ggttttccaa | 64740 |
| aaagttcatt | tcttccaaca | tttcagaaat | gtggagattt | tctaaaattt | aaaaaaataa | 64800 |
| catttttctt | tcctcagtgg | aaaagaatac | attttaaggg | agaaataaaa | gcactactat | 64860 |
| ctaagaatat | tcttccaagc | atgttgtacc | cagagtttgg | tatctagtgc | tatgtatgat | 64920 |
| aattggattt | aaataacagg | aataaggact | ttgccataaa | aattcagtgt | gtctaactgc | 64980 |
| tgtactttcc | tatgcttttt | atactttatt | agaagtaatt | tttttctgca | acttctataa | 65040 |
| agctagttaa | tcaaaggcaa | gtctaggcag | taattgcata | agtagaagaa | aagtaattct | 65100 |
| ggagttcatt | acagatgagg | tgataaaaat | ctcccttctg | ttaatgttat | tgtataaagt | 65160 |
| tgtgctagga | tttctctttt | atataatact | tgatcttcag | gaaataagca | atttcttgaa | 65220 |
| ttcaatagaa | aatttaagaa | aatttcattc | ttgtaaagaa | acttgttgct | ataatggtca | 65280 |
| ttgaaaatta | cctatgtgat | agtgtagact | catatatatt | tcacattttg | ctttaagttt | 65340 |
| aaaatatggc | tggtgcctt | aattttatat | tcattgaatc | atttgcttat | ataaaaacat | 65400 |
| gggtcgtagt | gggcaaatac | ttttctgtga | ctttaaaaaa | ttcagatata | tttgtaatga | 65460 |
| ttgcttcatt | aagatccttg | attattgtta | ttaataagaa | atgcttgcct | ttcatatgaa | 65520 |
| taatggattt | gtagaagaga | catataaaaa | ttatttatag | ctaagctaag | aagaaaatct | 65580 |
| cctggacatg | tatgcctgaa | ataataatgt | cacacacatg | actgagcttg | gtggatgatt | 65640 |
| tttaaagtga | ctaactaatt | tcctcctact | ttttgttttc | tcttttatcc | ttttcaaaag | 65700 |
| ccaagtccag | aacaaaaaac | ttctctgctt | tgtctgcgta | tctttggctg | tgtttctactg | 65760 |
| tgacatgcac | tgctgttctt | ttagcaccaa | aatgttggca | cacattcctg | aaaatttcac | 65820 |
| accatctctt | gctggatcag | caagcttaac | ccacaaaaat | ctggtgttgt | gcaatggttt | 65880 |
| ttgactgata | atcaatcttt | atgctgctcg | acagttgttg | ctgggacacg | gagtagagca | 65940 |
| ggtggcagat | gtgccttgtc | ttttgagaaa | agaaattgta | ggtgagcttg | gacacagact | 66000 |
| agcatatcac | atgtccatta | aaaagagtta | ggataagtat | aatggggaaa | agccattcat | 66060 |

sequece listing.TXT

| | | | | | | |
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| ctaagttgag | cttatagata | agcttaaaca | atgatatttg | gtttctttca | gaatgttaag | 66120 |
| aatataaatg | taaacatata | tacatttata | tatgaaagat | aatatttaac | ttgatgtgag | 66180 |
| tgatatatta | catatcactc | acatattcac | atacactttt | tcaaaccacc | aaaatcagct | 66240 |
| tgaagattac | ctttctgtca | tctgtttttac | agataaatcg | ataattttcc | aactagccac | 66300 |
| aagtgtacca | ttaaaataaa | aacgtgtgaa | taactttgaa | agtggtagat | aaacttaag | 66360 |
| agacatgatc | agaagttgga | taattgaaca | tgctaaaggt | aaatagggga | aatcaattgg | 66420 |
| cagaattaag | tgттаатgat | gtatctttct | aaatgagcat | aagtatttta | tatacaattg | 66480 |
| ataactgggc | attgttttaa | tttacagact | tttattcatt | caacaaacat | ttattgagag | 66540 |
| tctatatatg | ctagatacta | ggccagggtca | gagaaagata | aaagctgtgg | ttcatagtct | 66600 |
| gatttctttt | ttatcattat | tctttcatct | ctaatttaaa | ttcaatttaa | tgcaattaaa | 66660 |
| tcaaaattta | aatcaacaca | tttttattga | gtacctacta | tgtgtgcccc | agcatagggga | 66720 |
| tagaagtcct | ggcctttaag | gaacttaaac | tgagtagata | agttatgaat | ccttcaaact | 66780 |
| gagaatacta | ttttacaaca | taaatcaaат | ggatcttatt | ttatttctgg | cattggaagg | 66840 |
| ccaacaagc | cagtatatat | tttggaatt | atatatctat | acttcagtgg | ttttccttat | 66900 |
| tcattggaaa | agcagtgtag | atggagaaaa | ttgcctaaga | acgatttcca | gatttactaa | 66960 |
| gacagaaaaa | atcctataga | acatctctga | tattttaact | attttactac | gccttttgag | 67020 |
| cataactgtt | gacaaccagt | ggcattggat | ctaatagaaa | gccggagagc | tattcatcac | 67080 |
| ataccttgaa | acacaaagct | ttcatacgga | ggtcaggcca | aggtcaagac | tgacatgaag | 67140 |
| cattccttgt | tgaaatgcag | tattagaata | attcttacat | tttaaagttg | aatattttaat | 67200 |
| cataaatatt | aattgtgtat | ggaaaagatc | aggaaaatag | aaatatttta | tataaatact | 67260 |
| gttgataatg | ttgccttatt | aggtattata | cttctggcat | ttaaagtttc | tgacatttat | 67320 |
| taataattca | ttgaaattat | gaataggtag | ttaatgaatt | gtttgaaaag | gcatattaag | 67380 |
| ttttctgatt | catggccatg | tggtttaggt | tttattcaca | gtttcctaaa | tcttctgctt | 67440 |
| aattgtgaca | cagtgaaaat | tcttggaatca | gatccatggg | gtttataaga | gttcagttcc | 67500 |
| tttataactg | ctaggagctg | tatgtaagta | atgcaaacat | agcataataa | atggttcgtg | 67560 |
| ccctgtgatt | gcctgaatat | cttaaataag | atgaggagaa | aacactattt | agacctaatt | 67620 |
| cgttaggtcc | aagttctgtt | gtatggagtt | ctgattgtct | ttaaaacttt | ttggttgaat | 67680 |
| atttctactc | tctcctgtat | atcctattct | attactgggc | tttcagaatt | atcatttaca | 67740 |
| gtgattcatt | tcagtcctga | gttttgttaa | ccagaagtga | aacttggtat | tatgaataag | 67800 |
| attttaaatc | tttttagatcc | aatattgtga | agacgtagtc | acagaaaaaa | atgcatgaaa | 67860 |
| ggagttcttg | atactacacc | taagatctaa | atttaagcct | agagattttc | tagtaactgc | 67920 |
| catgtgatct | acaaaatgaa | ataatttgct | atgacagctt | gtgattgaca | agaatatgtg | 67980 |
| tgagcacatt | taaaataggc | catcttttca | tgtagaagtg | tcagtgaaat | gatggattct | 68040 |
| catcatttta | attattgatg | atttggaat | atttcaattc | cacgacacac | aagacacatt | 68100 |
| ctaaatagca | gcataacact | ttttctcata | tctgcgtcca | taatgaaatg | ttctgtcata | 68160 |

sequece listing.TXT

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| ccattatatg | tctactgaat | ttgttgattt | ttaaattggt | atgttaaaag | cacaaatttc | 68280 |
| aataggtgac | ccactactca | catcacatca | taccttaata | tttctgctgc | tagatctcaa | 68340 |
| gacagaacgc | tatagtgcctg | cctacaccaa | tggctgcttt | agtcttgcca | aaacagatac | 68400 |
| cagcctttgt | gggtgttcacc | tacagggcaa | ccactactta | attcaatcag | ctaaggtagt | 68460 |
| tgggactggc | tttcccaa | tcccttttat | cttttggttt | gaatagtgt | tttattaggt | 68520 |
| tagattgttt | gtacatttta | acttccactt | ttctatatat | attcaaaagg | aggaagatgg | 68580 |
| cattatgtgg | tgaaaaaaaaa | acattttctt | ctcagacagc | atatgattct | tctattttcta | 68640 |
| taagtgaggg | taaaactata | ggaaaatatt | ttatgtattt | tctattccaa | agttttaaat | 68700 |
| ctgtaaataa | aagaatagaa | tatccttgg | atataaaata | gggtgtggatt | tgaagacaat | 68760 |
| tataagagat | ggaccaaaaa | agtgttctta | gtcagtagga | aaatctatag | cctgcgtgtg | 68820 |
| gctggcagca | tctctttgta | ttgtcaaata | ccaaatcatt | gaaaaacacc | taaattcttg | 68880 |
| acataaccat | aaaatgttga | atttatattca | tacacagaga | ctacatttgt | ttactgtaca | 68940 |
| gatgcttgca | aacctatact | gtcctgttaa | cttgaatgca | tttacaaaat | cgaaaatgaa | 69000 |
| acagttacct | ttaaatacaa | tcacttagtt | gtctgcctat | gctgcttggt | actttacctg | 69060 |
| agaattcatt | tatatattct | atagttattc | tttcagagtg | gtttgctttt | tgaacttttc | 69120 |
| acttttgaag | gcttttagata | tcttgttagg | agagttgtga | gaaatgcatt | attgttttatt | 69180 |
| ttaaaggaca | ctagactcga | agtcagctga | tgttgcaaga | ttctagtccc | tgtgtctggt | 69240 |
| cttgggcaaa | ctggctcgca | cttcagtgtc | cttatctgta | atatagatga | agtaatactt | 69300 |
| taaatgccta | ttggatattt | ctaataaaga | taaatcattt | gaaaattaag | tgtctataag | 69360 |
| cccctggtct | aaacagaaaa | ctgagaatac | catcttataa | acataactaa | gacttgaagt | 69420 |
| tagtcagaac | cttgtgtcca | cttttacctt | tctagaatag | ctggctgggc | tcaggaaaat | 69480 |
| aacaacaaca | acaaaatttg | tttctacttt | cttcatcact | gccaggaaag | caaactagag | 69540 |
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| ggaggccaag | gcaagcaaat | cgtgagggtca | agagatcaac | actatcctgg | ccaacatggt | 69720 |
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| tcccagatac | taggaaggct | gaggcaggag | aattgcttga | acccgtgagg | cagagggttc | 69840 |
| agtgagccga | gatcatgcc | ctgcactcca | gcttggcgac | agagcgagac | tctgtctcaa | 69900 |
| aaaaataaaa | taaataaaaa | ataagtttac | atcccacaga | tgtattatgg | gaagtaaaga | 69960 |
| agatgatata | aaaacctggc | atatgatagt | tacctgaaat | gttatttttc | tacctgcctt | 70020 |
| tatttttttt | ccttcttttg | ctccatcctc | tctaggtatg | tttccacaag | cttttcatac | 70080 |
| aagttgtcac | acgtatctga | ctttactaac | aaagggtattt | gctaggtctg | agatcttgaa | 70140 |
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sequenece listing.TXT

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| ataaaaggac | ccccaaagtgg | ccttagtctg | ctccgttcca | aaagttgtat | tttaaaatat | 70320 |
| gttcgtgacc | cagggctagt | cttaacttta | agctgccata | acttatttaa | agaaagttca | 70380 |
| tagaaaagtt | cagggaaagg | gtgacaacat | tttgattggc | acaatagatg | ggatgtttgt | 70440 |
| aattttaatc | aaatgtaaat | tgaagacata | cttcaaatga | tatgtcagac | tagtgttact | 70500 |
| gagttaaaat | ctaagtacaa | ccactgtcat | tattagttaa | atatagccat | catgcctata | 70560 |
| gcaataaatg | atgacactta | agaacatgca | gaaacaaaga | gcgcaagtat | ttagagaaaa | 70620 |
| gggagtgact | agaaactcag | ttgaatgcag | gaatgtgacc | tggatttaat | ctattttacca | 70680 |
| aacatagaag | caattgtatt | ttgggtagat | gatataattg | aatatagcag | tatgttttct | 70740 |
| tactgtcggg | gcatttgtat | tttataaact | catcttgcac | tcatgaaatg | atgtgcttat | 70800 |
| tcatatttaa | tgtcattatc | tatacctact | tgacagtcag | agtgtttgtg | tttcaaattt | 70860 |
| attgcacaac | taccagagaa | caaatttttt | taataagctt | gtggatttga | agttgcaagt | 70920 |
| ttgctgcttt | ttattctaga | agtaaaagaa | ggcagcattc | tttttacttg | gtacaagcaa | 70980 |
| aatggaaaat | tataatgtta | ggagcatcca | gattttattta | atttttgtgac | agacattggc | 71040 |
| ttttttgaag | tagactgagg | aaatataatt | atattgtaga | tagacctttt | aacagaaaag | 71100 |
| caagctaaga | agtgtcttat | ctttttcatg | gtttggttta | aaataaatca | tgaaaataaa | 71160 |
| ataagacatg | gattctatca | aataaaatat | aatctatggt | tggaacataa | gtttctctga | 71220 |
| gtgctttggg | agagtatatg | aacagtcagg | cggacatggc | agtccctgag | cagctgagat | 71280 |
| acgacccttt | tgggaactgt | tttccaaggt | tatgctaaac | cttaggtcct | cactagagtc | 71340 |
| cagtcaccac | ctgcatccta | accagcaga | atcttaactt | tccagagaaa | agtacctgag | 71400 |
| gagaggaaga | ctgggacagg | tctaggtctg | attgctttga | aaaccaccag | gtgtggctag | 71460 |
| catattttag | ggggataagg | taatcaggtg | agacaagggc | cctttctttg | gcagttgggt | 71520 |
| gtggagggca | gagaccttgc | tgaaagaact | atcaacaagg | tagtgattca | agaacagtcc | 71580 |
| aaagggaaaa | aggtagagat | tcaagaacat | tccaaaggag | aaaagggtga | gactcaagaa | 71640 |
| caatccaaag | gggaactcgg | atgttactgc | cgttgagatt | tgtgaactcg | gaatatctga | 71700 |
| gacaggtctc | agtcaattta | ggaagcttat | tttgccaaag | ttaaggatac | atgtctgtga | 71760 |
| gacagcctca | ggaggtcctg | atgacatgtg | cccaagggtg | tccgagcaca | gcttgggttt | 71820 |
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| ccagaaaagc | ggtacaactc | aaagcaaagg | tggggcaact | cgaagtgggg | atgggccatt | 71940 |
| aaggtcaaag | gtagataaga | gacaaatggg | tgctttcttt | tgagtctctg | attagccttt | 72000 |
| taacctgatt | cttataaagg | taccagatag | cctcagccct | aggagttgaa | aatttttgaa | 72060 |
| tttttagaga | tgagaaagtt | aatgaaagac | agaaatgtag | gaagcatttg | ttaataatgg | 72120 |
| ctagtatggg | ggccgggcat | ggtggctcat | gcctgtgatc | ccagcacttt | gggaggccaa | 72180 |
| cgctggcaga | ttacaaggtc | aggagtttga | gaccagcctg | gccaataagg | tgaaaccccg | 72240 |
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sequece listing.TXT

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| gcactccagg | ctgggtgaca | tagcgagact | ctatctcaaa | aaaaattaaa | aaaaaaatgg | 72420 |
| ctagtatgtt | ttcctagaaa | ttcaaagtag | attcagatgg | cattaggggtt | cttgtttgaa | 72480 |
| ttgcttggct | ccctgcccc | cataccctac | agtcccctca | ctattttggt | gctactcact | 72540 |
| ccactcacc | ccagcctttg | agaatagcct | cttcctcgcc | agggctgaag | tcttgtcaag | 72600 |
| tctttgctga | ccgtcttcag | tttctctgtg | ttggcatgga | agagtcagat | tctgtttttc | 72660 |
| ttcttgccct | tggatgtaat | aatgcttacc | ctggctgtca | gccctcgaac | cacatttctt | 72720 |
| gatatgaaa | catatgtcct | cagaggggtg | atgtacagaa | gaatcacttc | ctgttgctaa | 72780 |
| ataggaggg | tccctgggtg | atatggtctg | gctctgtgtc | cccacggaaa | tctcatattg | 72840 |
| aattgtaatc | tgaatatata | tcccctcatg | ttgggggaga | cgccttggtg | gaggtaatta | 72900 |
| gatcatggg | gtgggtcccc | ccatgctgtt | ttcatgatag | tgagtgagtt | ctcaccagat | 72960 |
| cttatggctt | tataaggggc | tttttgccct | tttgctctgc | acttctcctt | ctttccacac | 73020 |
| tgtgaagagg | atgtgtttgc | ttctccttcc | accatgattc | taagtttcct | gaggccctcc | 73080 |
| tattcatgct | gaactgtaag | tcaattaaac | ctctttttta | ataaattacc | cagtcttggc | 73140 |
| tatgtcttta | ttagtgggtg | gaaaatgcac | taatacagta | aattggtacc | aggtagtgga | 73200 |
| gcgctgctgt | aaagataccc | aaaaatgaag | caactttgga | actaggtaat | gggcagagat | 73260 |
| tgggacagtt | tggagggctc | agaagaagac | agaaagatgt | gggaaagttt | ggaatgtcct | 73320 |
| agagacttgt | tgaatggctt | tgacaaaaat | gctgttggtg | atggagcagt | aagggaagat | 73380 |
| cttaactgg | atcctgagaa | ggacttgagt | ctgaataggt | gaagtatggg | tttaaaagtg | 73440 |
| aacagggata | atgaacagat | ttgcttaggt | aaaacagtgc | ttcaaactag | ggtaagacaa | 73500 |
| gaacagaaa | tttgaatggc | atcagattgt | aaactcttct | gttagacata | aggttaggaa | 73560 |
| aaaggacttg | tgtctttttt | catattcctt | gcacagaatc | tggcacatag | gatacactca | 73620 |
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| ggctgactga | ctgactgact | aggagaaaac | ttcaaaaact | agttccaaga | gttttctctt | 73740 |
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| ctctcagttg | aaccatgtaa | gggagtgaga | gaaggagcct | agagcaaagg | aagaagcatg | 74100 |
| gccaagacat | gtgttcactg | gaaatctacc | cccagtctga | aatgtgaaag | acaccagaga | 74160 |
| attgctcccc | tttgaggcaa | ggggactggc | tactatgccc | cagaatcagt | caatcattgg | 74220 |
| ctgtcggctg | tctccctagg | taagaggggag | gagatcacia | cctcataggc | atttcctgac | 74280 |
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sequece listing.TXT

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| accaacagtg | tctactacac | tatgcactat | agtcgaccct | ctgtatccac | gggttctgca | 74460 |
| tctgtgggtt | caaccaacta | tggatcaaaa | atactcagaa | aaaaagagct | ataaaaaata | 74520 |
| acaatagaat | aataaaaaat | aatacaaaaca | aaaatacagt | ataacaacta | tttacttagc | 74580 |
| attcacattg | tattaggcat | tataaataat | ctagagatga | tttaaagtac | acagggggat | 74640 |
| gtgtgtaggt | tatatacaaa | tactactaca | ttttatataa | cggacttgag | catctacaga | 74700 |
| ttttggtatc | ccaggggtct | tgaaccaag | cctccatgga | taccagggga | caactgtact | 74760 |
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| ctttctttct | ttctttcttt | ctttctttct | ttctttttct | ttatttttct | ttctttctct | 75000 |
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| gagggccctg | cacagcttcc | ttaaattttg | cctcattggc | cttcactccc | ctcaccctag | 76320 |
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sequece listing.TXT

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| taacaattaa | tatactccaa | tgctccataa | taagcaatag | aacttcaggg | aggtgagggg | 76620 |
| agaagctagc | atttatggaa | tgacttcgat | atgttaggta | attttacata | taagatatatt | 76680 |
| aatccctgtc | acgtagtgga | gtgatgctca | ctagataatt | tttaatgaga | aatctgaaat | 76740 |
| tcagggaggt | atagtgcata | tagtgtcact | aagaaacaga | gctaggggtc | aaacgtagtt | 76800 |
| tgaaggtaga | gttaataccc | tttcaccatg | caaagcatct | aggggcatcc | agattgtggg | 76860 |
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| aaatatttcc | atcatttcaa | aataaaacc | cttaccatt | aagcttctct | tcaatcccct | 77160 |
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| ctattgatgg | acatttggtt | accacatgtt | ggctattgta | aatagtgtctg | ctatgaacat | 77460 |
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| catttgaaaa | tctgggcaaa | tttcaatgca | aaatagcaat | aatgcagct | attttcagtt | 78000 |
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| tgtatttttg | taatttatgt | aagaagaaaa | tatgattaaa | ataaattgaa | tgacacaaata | 78120 |
| aatagctcag | gtgcaaatta | tttatttggtg | aaacaaaacc | tcttgaaaag | agaagaatgc | 78180 |
| tgatggcaac | ttagtatgca | atatactgca | ctcctcttct | tacccttaca | ttttcgaagt | 78240 |
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| tctgcacaca | gctttgaaaa | tgtataggtc | aaagtaaact | gttaatgaaa | aactgttttt | 78360 |
| cattttcagt | gaaatagttt | aaatctctca | ccgaggatgt | cctagaaggc | accttccttc | 78420 |
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sequece listing.TXT

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| aaagttcaag | acctatggtg | ttttatagta | agcaaaggac | actggatatt | ttcaatagac | 78600 |
| cctttcagct | gggtgcgttt | aatcagtaat | agaggcaggc | taagggtgaat | tttaattagg | 78660 |
| actaaattgt | ggtattactc | tttcataccc | tgaacatctg | ttcccttcag | aaatgatgat | 78720 |
| ttatgcaggc | tatcagagca | gacagcttgc | tacagcttat | gtcacagtta | gtaagaaact | 78780 |
| ggtggtagca | tttcagaaaa | ccagcatcta | aatggagact | ggccagtgtg | taatacacag | 78840 |
| gtaatagagg | gagggagta | tgatgtgtcc | atttttaatt | ttgaagccaa | atattgactt | 78900 |
| gacttaaaaa | attatcttct | agaccatctg | ttgttaatta | agaaagtaac | ttggacaatg | 78960 |
| aatgggttga | tgcttcttac | tgatatcaaa | agacggaaaa | ccaagcctgt | tctttctatt | 79020 |
| agaatgaaga | aacttactga | gaggacctca | gtccgaattc | tgttctttaa | gaatggcatg | 79080 |
| gggcaggatg | ggcatgagat | tacagtggga | aaagaaacaa | tgaaaaaggt | aatttttaat | 79140 |
| taaatattga | actatgaatt | taatttcaaa | gttttgtggc | tgttgaaatg | tgttgttttc | 79200 |
| ttcttctaaa | tatcgatgcc | aacaaataga | aatattaaca | agacattata | tagaactaaa | 79260 |
| aaattctgta | taaacctggt | tataagtctg | cttattgcac | taataccata | aattacctta | 79320 |
| gcaaagcaac | aatatttcag | gaaattatct | ggctaacata | gttagccatt | tacctagtta | 79380 |
| aatgtttatg | tttctactag | agaaaacatt | ctaaacattc | taattagtta | caatatttta | 79440 |
| taagctatct | agattgaagc | cagtctaagc | tagcttccag | tctcaaactc | gcctcttttc | 79500 |
| atttagaata | gtggtgaagc | ctaaaagcat | ccttgctcct | ctaaagaatt | agcaaagccc | 79560 |
| caaatcacta | aatgcagttt | tcaaagtatt | catataagtt | tttaaaaaaca | tatctaaggg | 79620 |
| gcctaagaaa | aatcatgaaa | caagcaaact | ttaaaaaaca | gaatttaaag | tattacttgt | 79680 |
| catacaaatg | cgtgtttctt | agaagggtgct | tgtactttct | aaaacatctt | tgatattaaa | 79740 |
| aaataccgag | gagctaattg | gaatttgaaa | cacacataca | tttttttaca | gataaggatt | 79800 |
| tttcaaccaa | tttaaaagca | acctaataat | aatatagtaa | caaagtgtgt | aagaatgtat | 79860 |
| gagagacagt | aaaacataac | caaacgccta | gggttgaatc | ttggcttcac | cattcactag | 79920 |
| ctatgaggcc | ttggacacct | ttgtttccct | gagcctcagt | ttcttcatct | aaaaaaacag | 79980 |
| agataacagt | agtgccctact | tcatagagtt | gctgtgagga | tttaatgtga | tactatgcat | 80040 |
| cgaggacaat | gcctggcacc | cagaaagttc | tcattaaatg | ttttctagtc | tcattttttga | 80100 |
| gactcataat | atgcacctaa | cagaaattag | ttttctttct | aatggaaaat | ttttattatg | 80160 |
| aatcaagat | aattttgtta | tactatacta | tttcgaattg | aatgttgctt | gaaacagggtg | 80220 |
| aatagttgac | tagatactag | aatttttaatc | aaaatatcta | cttcttcatt | tattttatttt | 80280 |
| tgtggtggtt | ttacaaccac | aactgggttaa | gagcattttac | caaggagctg | ggaaacctga | 80340 |
| gttttatttc | cttcttatct | gaagattttg | attatgatat | taagggatat | tacacagcag | 80400 |
| agcaaattgc | taaggcaagt | tataacatct | tccctggcca | ttttgaaaaa | tagagaagat | 80460 |
| gaacgtatct | cttggactgt | taaaatgcag | tcattcttgg | agacagaagc | tatgttagat | 80520 |
| aacctcttga | gttcacttca | gttcaatctc | gtaattccat | gccttagtgg | taaaattgga | 80580 |

sequece listing.TXT

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| gtcactgcta | ttttgctttt | tgtctctaga | aaggaattta | tttaaaactg | gatgatcaat | 80700 |
| gaagtcttta | gcttactttt | ttcttttatg | atgtgtagaa | aatattttaa | gaattttcac | 80760 |
| aaattcatga | tagaactcat | gatagaacat | gatttagtaa | caaagtatt | tgtaaattatt | 80820 |
| tgccctcagta | tcacatttaa | gaatgaggta | aaggagaaga | ggcaacaaaa | tgctgatctt | 80880 |
| gggtgtcaat | aagaactttt | tagaagggaa | aaataaggct | tgctaattat | tttgtaaata | 80940 |
| aaattttaa | tttgaaagt | ttgttgataa | tcataggatc | atgctctatt | tatatattaa | 81000 |
| ataccaaatc | agtaatagaa | ataagtaagt | ggcatagtct | taagaaaaaa | acaaattatt | 81060 |
| ttctctttta | tgataaaaata | ttaggaatgt | taactatttc | tcaattacta | ctaagtaatg | 81120 |
| taaaactgaa | gtagaatgta | aaggattcta | atatggtgaa | ggttattgca | atgagataag | 81180 |
| aagagattta | ttgagaatgg | gtggtacaat | aaggtagtta | aagcataaaa | gtcctctctg | 81240 |
| agcacagaat | agagccaagg | ggaaatgact | ctattttaat | tataagtaga | acatcaaaag | 81300 |
| gaaatccatt | tattttacttt | aggaagtaat | taagaagttt | gaaatgaggg | ccaaaatgat | 81360 |
| atattccttt | actaaactct | ggaataccgg | aattatagca | catctctttg | cgattttaa | 81420 |
| ctgatgattt | tagaattact | tgatatggct | tcagtaatca | cacagcatgt | gctactgtaa | 81480 |
| gatataggct | aaacatacac | atccatgggt | tgaaaaaggt | attaagaaaa | atgtgtgggc | 81540 |
| ataagatgcc | aaattaatgg | gaaatgaaat | atagctgata | tgatacaca | actttgagat | 81600 |
| tagcatcatg | gtggataagt | tttattctct | tccaattaca | tcttggaattc | attttcagat | 81660 |
| aattgatggc | tgtgtggatt | attttattat | tcaagatagc | atttctttta | tgaaaaatgt | 81720 |
| ttaatttttt | cccagtagtt | aataattata | tcttacttat | ttggtttttt | gcttggtttg | 81780 |
| ctactatcac | caatagcagg | aaattacagt | ggtgaagaaa | atgatgaaaa | agataatgaa | 81840 |
| atgaatgtaa | caataaaaaa | aaaaaaaaacg | ctgtcctctt | gctccctttt | gaactggctg | 81900 |
| ttttctatga | tctctatcct | gggatctctc | ttcactatca | acctgggagt | tatcgttctc | 81960 |
| tctctccttt | gttggatttc | ttttccctga | ttccctagtt | ttcctgtacc | tcctgtattc | 82020 |
| tgctgtgtgc | atatttcagt | ggcttcccaa | aaaagagaac | acagatgggtg | aatattttca | 82080 |
| aatcttggga | aatatttttt | ctttcaaata | ttaatagtat | tgctccattg | atttttgttg | 82140 |
| ctagtgttgc | tgttgagaag | tctgatatca | gactgattca | tcgtcctttg | taggtgacac | 82200 |
| aaaggatgaa | aacatttaga | accatctctt | tattgacagt | gttcaaattt | tttttcaaga | 82260 |
| tgtgctggat | actcaggatg | tcttttcagt | ttgaaaagt | tcaccccttt | cttttgagat | 82320 |
| gttttgtaa | actgtatata | tttctgacaa | tatcctttta | ctgtagggtt | tctgttatta | 82380 |
| ttttatggaa | ctcctacttt | tatatgttgg | atcttacgaa | ctgaacttct | aattttctta | 82440 |
| tctgggagat | ttgcttatct | ttgcctctca | acccaatgaa | tattttgctt | ctcctgttac | 82500 |
| agtctgtgtt | ttctctgagt | acttgttttt | ttttgtttgt | ttgtttgttt | tgttttgttt | 82560 |
| tgagggtgg | gggcattgct | tttgttttat | ttgattttga | tctttaatgt | tacagactta | 82620 |

sequece listing.TXT

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| aaaagttgtg | agcatagggt | tgtgttattg | acagatggat | ttcaccggag | agtgttttga | 82740 |
| ctaggatttt | tcactggggg | tgggttccta | attatcagtg | tcttttctct | ggagttaatc | 82800 |
| aatttcacca | cataaagtct | gccaatttga | gcaatgtact | agccaagtgg | agaagggggc | 82860 |
| taagagtttc | actttcaata | tgtagatttt | catttaattg | tcctcttttc | agtaagaggt | 82920 |
| ttagtctctc | cagagagcaa | atctcatgtc | tactcttctg | atagcaaaag | tatagttgcc | 82980 |
| tgactgggtg | atgtgggaag | ggttctggat | gtttatctgt | tttctatata | gtcaacctgt | 83040 |
| tttcagccca | acttttagag | gtacctgata | tctcaaattt | atgagccttt | ttgggggtact | 83100 |
| gcaatacaag | taaaatttac | ttttactagt | ttaagttttg | acttttctgg | tctgctaaat | 83160 |
| catttaccac | ttaattatct | tcccaccttt | ctggttctct | tttttgaaa | atatgttggtg | 83220 |
| tcaatctttt | aatattaata | ataattgatt | cataattatt | gatttttata | gataaaaatg | 83280 |
| aataattcta | atattttctt | cctatcccga | ttgttttgcc | caatttcttg | gggtttatgc | 83340 |
| agcataattt | gtgctatata | ataatatagt | gttatatatt | atgacatata | tatatgctat | 83400 |
| gaataatata | atgttaactt | acttcaaaga | gaacagaata | cttttcctcc | gttacctgga | 83460 |
| ggcgtcatat | acttactgta | ggcaaaagga | ccacagtttt | tttcaaagt | tggtccacag | 83520 |
| aacacttgca | tcagaatcgt | ctggcctttc | tgttaaaaaa | tcagactcta | ggccccactt | 83580 |
| aaagcctatt | gagttaagaa | ttcttgagtg | tgggccctgg | gaatctgaat | ttcaacaaat | 83640 |
| gtctccagat | gattcccagc | cactctaaag | tttgagaatt | cttattccag | tgttctaaaa | 83700 |
| cttcaaactt | actatatgat | ggaaatcttc | atagagttcc | tttttgcttg | ttctcctgta | 83760 |
| cttctcatgt | agttaaagag | aaaaaaataa | cgtgtgagac | agaataaaaag | aggttggggg | 83820 |
| aagttagata | gctagttggt | agattagaat | gagtgtaggg | agttcagaaa | tcgggaaata | 83880 |
| gaaaacatct | acaagttggc | agaaaaagag | tggttatgtg | tagcaagtct | ggcttaggaa | 83940 |
| aaaaatactc | cctttatatt | tatatgtgag | catatttcat | tgtaattact | ttttcctggt | 84000 |
| attactgaaa | aaacatgtaa | gtattgaggg | aattactcct | atatggatgt | caaggataaa | 84060 |
| aaaagcaata | gactttatca | gatgccttta | agccatgaga | aatatatatt | tctatgatgt | 84120 |
| ttaccattta | ttaataaaaa | aacttaataa | gcttaaacaa | aaaattaaga | aaattttcaa | 84180 |
| gcttaagaaa | ggcccaattc | aattgaaata | acacaatata | atggtacgat | tgcagaatgt | 84240 |
| tcacacataa | attagtaact | atggcagcag | agattttccc | aatagtgtgg | gtaaaataat | 84300 |
| ttagagagta | tcttaagaga | ttcaaaaagg | agaacctggg | gtagcaaaat | ttgattaagg | 84360 |
| atgctcaaca | tggattccga | cagaggaggt | catgcataat | tagtatgttg | gaacttcttt | 84420 |
| aaagagcttt | ttatgaaata | tgaagaaaag | tccattgata | ttacttggtta | tttaaaaatt | 84480 |
| aggctagttt | tttaaatcag | agattaatat | ctgattaaaa | acacaaaaga | agagttttta | 84540 |
| aaatatggaa | tttgataata | tggttttattc | ttaagattct | atgaatagcc | agttgccttt | 84600 |
| tcattattta | atgtgaattt | ctatatataa | ttgagttatt | ttagaatatt | ataagtaatt | 84660 |
| atttatagtc | agaatttttt | taaaaatgaa | attctaaaaa | aagcaaaaag | aaaaaagaat | 84720 |

sequece listing.TXT

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| gtatttaatg | gaaataaaaa | caaatagaga | ttatcagtct | aaagattcat | ttactttact | 84780 |
| gatggtagtt | aaggatagtc | cttaatat | tttaggagca | gttaagacat | taacatggcc | 84840 |
| gggcatggtg | gcttatgcct | ataattccag | caccttggga | ggccaagggtg | ggcagatcac | 84900 |
| ctaaggtcag | gagttcgaga | ccagcctggc | caacatgggtg | aaaccctgtc | tctactaaaa | 84960 |
| atacaaaaat | tagctgggca | tggtgggtggg | tgcttgaat | ccaagctact | tgggagggtg | 85020 |
| aggcaggaga | attgcttgaa | ccttagaggc | agaggctgca | gtgagccaag | atcgtgccac | 85080 |
| tgactccag | actgggtgac | agagcaagac | tccatttaaa | aaaaaaaaag | acataaacat | 85140 |
| gatattaaat | ttgaaagtta | aaatgtat | ctgtgttttt | tattaaaatt | attttatagt | 85200 |
| ttttatatgt | acattttata | ttttaacata | ttttaattgt | taagaacata | taacaataat | 85260 |
| ggttaccttg | aagcatttat | tagattagt | tccatgcata | ccttaccatt | aaagaatctt | 85320 |
| tgatgaactt | tatcgagttt | ctggacatta | gaatcacagg | attttatgaa | gtcttctagt | 85380 |
| caagctactc | aaaaaactga | aacttagaca | agctgactgc | catatccaaa | gtggatcaag | 85440 |
| tgaaatagct | agtactataa | cccattttct | gatgtttaag | agcaatatta | tttattattc | 85500 |
| aaaactttct | ttaatattac | tttttcttaa | attttaattc | ctaattgtgtc | ctgtcttaaa | 85560 |
| aataatttaa | cataaccatt | atttcctact | tggagtaatt | agtatcagac | tggccattcc | 85620 |
| attctataca | actgaaaaac | tggacaaaat | atgtgacaac | aatttttagg | tattagacaa | 85680 |
| caggaagcat | cagctgtaat | gcctaagaga | aggggaaaag | ttgaagtgag | tcctaaagtt | 85740 |
| cactatgtct | ttgtacctgg | aggcaattta | tggatcgtag | tagagagaga | gagagagaga | 85800 |
| gagggaggga | aagagtgaga | gagagagaag | agagaatctg | agaaaagcac | agtgtttccc | 85860 |
| ataaactgaa | gagaaagaca | tcaaagttct | aggtagctga | aatttgcagg | gcaataccat | 85920 |
| aagaggggagc | tatttgtaga | atagttctca | aattttgtgt | aagcatcccc | tcatgtcttt | 85980 |
| ggctgactat | taagttgctt | atgcataggg | tgaactccac | aaggctctgac | acaacaact | 86040 |
| gccaggaaaa | gaacagctaa | ttaggatgta | aaagggaaac | aagtatggga | gtatgtgcag | 86100 |
| ggtaaggaga | catttgcatt | ttgaccagtt | ggagaggaga | ggtcttggtg | agcttggttaa | 86160 |
| acaaattcat | gaagattcca | gtaaagataa | tttatatcca | gaagaaaagt | tgatcaatag | 86220 |
| aaacagaccc | caaaatagag | ttaacagaaa | aagacattta | aacagtgatt | ataaatatgt | 86280 |
| tcacgtatta | aaaaaaaaaca | tgaatataat | gcgaagagaa | ctggaaactt | aaaatagaac | 86340 |
| cagtggaaact | tctagttcta | aaaattacaa | tatcttaact | gcaaaaaaaaa | caaaaaacaa | 86400 |
| aaaaaaaaaac | ctgggttttaa | cagcagggtta | gatattagag | aagaaaagat | ccgtgaactt | 86460 |
| caagacaggg | caatgaagct | atccaaactg | cagtgtagag | aagcagaagg | aaaaggctga | 86520 |
| aagcaaggac | tgagtgtcat | taacttgtgg | gatgatatca | gtgagtctaa | tagacgtata | 86580 |
| attggagccc | tagaaagact | gagaaggctg | tgaatatttg | aagtaataat | ggccagaatt | 86640 |
| tttcctgagt | tcttggttca | tggaaaacaa | cccacatatc | taagaagctc | aatgcacctc | 86700 |
| tggtagaaaag | ataaccagat | taaggacata | aatcacattg | ctgtaagcag | tgataaatag | 86760 |

sequenece listing.TXT

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|-------------|-------------|-------------|------------|-------------|-------------|-------|
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| aataaaaagct | aactttctctt | tagaaataat | gcaagacaga | agatagcaga | tatcttttaaa | 86880 |
| gtgtagagag | agataatatg | tttaaagcgc | tgaagaaaa | aactgggttat | cttattatatt | 86940 |
| tatattacat | gaaaatatct | ttaaaaaaa | tcttcgaaat | aaaagcattc | tcaggcaaac | 87000 |
| agaatatgaa | gcacatgtgt | ccagcagacc | taaactataa | gaaatattaa | aggatatttt | 87060 |
| tcactggaag | aaaatgatac | cagaaacaaa | tttgggtatg | cacaaagaaa | ttatttttaaa | 87120 |
| tgtacctggt | acattcactt | ttatagaccc | tttgctgctt | attgagccat | tcccagtaca | 87180 |
| tttaaaagga | ttaaaattat | tttaagtatg | tttcctggct | gcaaaagaat | taaattagaa | 87240 |
| ataaataacc | aaatatatca | ggtcactcat | tctccagctg | tggagagttg | tttaatgtag | 87300 |
| acattaaact | ccctttcatg | tatttatctt | aattgattat | atttaaaatt | atatatatta | 87360 |
| tcctttaata | gacattatat | atattatctt | tgatagacat | taaactccct | ttcatatata | 87420 |
| cacctatcct | attaatcttg | tccttctaga | tatagaactc | taatacaaca | taaattacca | 87480 |
| aaactgagac | agaagaaaat | ttatatctca | aaatctctct | atgtattaaa | taaatcaaat | 87540 |
| ttataattaa | aaacttttca | aaaaacaaaa | ttccaagacc | aatgatctc | attgttgaat | 87600 |
| tttatcaacc | tttcatgaga | aataatatca | gttgtagaca | aaccttttag | aaaatagaga | 87660 |
| aaacaggaaa | acttccccct | cacatgatga | gactagcatt | ataaagacat | tactagaaaa | 87720 |
| gaaaattcat | accaatatcc | tcctaatacat | agatgcaaaa | ttccttcaaa | aagtattaac | 87780 |
| aagtcaaatc | caacaataca | tcatgatcaa | gtgagtttta | tcccaggaat | gcaaagttgg | 87840 |
| tgtattagtc | tgttttcatg | ctgctgataa | agacatacct | gagactgggc | aattttacaaa | 87900 |
| agaaagaggt | ttattggact | tacagtttca | catgactgag | gaagcctcat | aatcatggtg | 87960 |
| gaaggcaaac | agcacgtctc | acatggtggt | ggcaagaggg | agaacgaaag | ccaagcgaaa | 88020 |
| cagtttcccc | ttatcaaacc | atcaggtctt | gtgagactta | ttcacaacca | caagaacagt | 88080 |
| atgggtgaaa | ctgcccccat | gattcaatta | tctccactg | tgtccctccc | acaaaacgga | 88140 |
| attatgggag | tacaattcaa | gatgacatat | gggtggggac | acagagccaa | accatatcag | 88200 |
| ttggtttaac | aacagacaat | gtagttgacc | accttaagag | aatatggaaa | aagccatatg | 88260 |
| ctcatttcag | taggtattgg | agaggaattt | gacaaaattt | aatattcact | tattaaaaaa | 88320 |
| acaaaaaaaa | attttcatag | caaacttgaa | atagaaggga | atttcttcaa | tctggtcaag | 88380 |
| aatgtctact | aaacactgat | ttaactacat | acctaataat | gaaagactga | actgttttcc | 88440 |
| tcaagatcag | aatcaaggca | aagatgtcct | ctcttttcat | ttcagcttaa | catgctattg | 88500 |
| ggggccctac | cctgtgataa | ggcaagaaaa | aagtagtaaa | aagggtataa | atttgaaagg | 88560 |
| aagaaataaa | aactatttta | tttatagaca | atgtgataag | aacatcaa | accttaaaga | 88620 |
| acctacataa | aagctagtag | aactaaggaa | tacattcagc | aagtttgag | gatacaaggt | 88680 |
| cagtgaatt | ctatatgcta | gtgacaatta | gaaagtga | tttaaggaga | atgggacgtc | 88740 |
| tagcttcaga | gcgggaacct | tcgttgtgac | gaaaaaggga | attaaatatg | ggtgatgttg | 88800 |
| agaaaggcaa | gaagagtttt | tgttcaaaa | gtgtcccagt | gccacaccgt | ggaaaaggga | 88860 |

sequece listing.TXT

| | | | | | | |
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| attgtattca | cttacacaga | tgccaataag | aacaaaggca | tcacctgggg | agaggataca | 88980 |
| ctgatggagt | atttggagag | tcccaagaag | tacatcccta | gaataaaaaat | gatcttttgcc | 89040 |
| ggcattaaga | agaaggcaga | aagggcagac | ttgttagctt | gtcttaaaaa | agctactaaa | 89100 |
| tgagtaataa | tttgccactg | ccttattttat | tacaaaacag | aaatgtctca | tgactttttt | 89160 |
| atgtatacca | tactttaata | gatttcatac | accagaattc | aggtcatgaa | tgactgacag | 89220 |
| aatattttgt | tgggcagtcc | tgatttaaaa | ctaagactag | cttctgggta | aatgaatatg | 89280 |
| ttcagttttt | gaattttaat | agtaattcga | attcagtaaa | tgctatcact | gtttaccctt | 89340 |
| tctaaagcta | tgattagact | tcattaataa | ttttcacctt | ttcaciaaaga | tggtgaatgc | 89400 |
| catcttaaaa | cttactgggtg | attggtttta | tatttagatg | tatgtaactg | gttatgtgaa | 89460 |
| tatatttaaa | tactggggaa | attccttcac | tgtctcagaa | ccaagcaaga | ttcacctgtg | 89520 |
| ttttgtgttc | atttgcctct | taaaggcaag | ggttgaagat | aaataaggta | gcaacgtcta | 89580 |
| ctttatattt | ttggccctaa | ctatgccaat | ctaattagaa | ttccctgtat | ttaaaatggt | 89640 |
| tccttttact | tactgaaagg | aatttttagtg | tggtttatgt | gtaatatcaa | aggttattta | 89700 |
| acacttctca | cattttatag | atgatctatg | aggtcatatg | cttttaaaat | agcaagtttt | 89760 |
| tttatgttta | aattgagttt | attttaggca | ggcaaaattg | atttaatggt | tgagaaataa | 89820 |
| ttttatgtaa | ttcctattac | agaataaaaa | attacagata | atctttttatt | attattatta | 89880 |
| ttttaattta | ttatacttta | agttctggga | tacatgtgca | gaacgttcag | gtttgttact | 89940 |
| taggtataca | cgtgccatgg | tggtttgctg | cacccatcaa | actgtcatct | acattaggta | 90000 |
| tttctcctga | tgttatccct | cgcctagccc | cccacccctt | gacaggctgt | ggtgtgtgat | 90060 |
| gttccccctc | ctgtgtccat | gtgttcccat | tgttcagctc | tcacctatga | gtgagaacat | 90120 |
| gtggtgtttg | gttttctggt | cttgtgttag | ttttctgaga | atgatgggtt | catccatgtc | 90180 |
| cctgcaaagg | acatgaactc | atcctttttt | tatggctgca | tagtgttcca | tggtgtatat | 90240 |
| gtgccacatt | ttctctatcc | agtctatcat | tgatgagcat | ttgagttggc | ttcaagtctt | 90300 |
| cgccattgtg | aacagtgcc | caataaacat | acgtgtgcat | gtgtcttata | aacttcactc | 90360 |
| ttgaactctt | tacaatctaa | gtcaaaacta | gtaataattt | aggattgtct | ttaaacagcc | 90420 |
| attcagaaac | ataaaaactgt | agaactgctg | tgtatttggt | atcggaata | gtgcttttgc | 90480 |
| caacttaaaa | ggattaaaat | agaggagata | tacacacaca | cacacacaaa | aaaaagaaaa | 90540 |
| tgaaatgtaa | aaatccaata | ccacaacact | caaacacatg | aaatacttaa | ctattcattt | 90600 |
| aacacaatat | gtgcaagact | tatacagtga | aaacaacaaa | taattgctga | gagaaatgaa | 90660 |
| agaaggcca | agagatat | catgttcacg | gactggaaac | ttcaaaatta | ttatgatgcc | 90720 |
| agtttcctgc | aaattgatct | atatagtcac | cacaatactc | accaaatttc | aaccagtctt | 90780 |
| ttctttgagg | aaaggggcat | aaattggcaa | gatatttcta | aaatatacgt | ggaaatgcta | 90840 |
| gaaatgcaaa | ggaattagat | agccaaatca | gttttaaaaca | ggagcaaatt | tgaggagattt | 90900 |

sequece listing.TXT

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| atactacctg | atttctttta | aaaagttgta | ttttagtatg | tatttattat | tattgttatt | 90960 |
| tatttttttaa | attgacaaat | aaaaatttta | tgtatttatg | gtatactaca | tgatgatttg | 91020 |
| aaatatgcct | acattgtgga | atggagaaac | caagctgatt | aacagttgaa | ttactttaga | 91080 |
| tacttatcat | ttttttgtca | taaaaataca | taaaatctgc | tttcttagca | attttcaagt | 91140 |
| gtataatata | ctgttattaa | ctatagtcac | catgatatac | aatcattctc | ttgaacttat | 91200 |
| acctcctgtc | tgactgaaat | tttgtgtact | ttagccaata | tcttcccagt | cctcccactc | 91260 |
| ccactgcagt | ctcctgtaat | caccattcta | ctctctgctt | ctgtgagttt | gacttttttt | 91320 |
| gttttcacat | ataagtgaat | tcattgtgga | tttgtgtttc | tgtgcctggc | ttattttact | 91380 |
| taacataatg | ccctccaggt | tcattccatg | tgctgcaaat | gacaagagtt | tctccttttt | 91440 |
| aaaggaggaa | tagtattcca | tttactactac | ctgttttcaa | catctattat | aaagctaaaa | 91500 |
| taatcaaaac | aggatgatat | gggaataaga | atacacataa | agggcaaaga | aacaaaatgg | 91560 |
| agagttcaga | aatagacca | cacatacatg | ggtaaatacat | tcttgataga | gtgattcaat | 91620 |
| gggggaaaag | acagtgtttt | tgataaatat | tgctgaaaca | attggatatt | tctgtgtgat | 91680 |
| aagaacttac | ctcacaatca | ttcatgaaaa | ttgatttaaa | ttgatcacag | atcttattat | 91740 |
| aaagaacaaa | actatactaa | ttctcagaga | aaacgtggga | gaaaatcttt | ttaaccttgg | 91800 |
| gtaggcaaat | atttcttagg | acacaaaaaa | tatgaacaaa | aatgatttat | actttgtctg | 91860 |
| aatcaaaaaa | cttttgctct | tgtaaataca | gcattataaa | aatgaaaagg | caagccacag | 91920 |
| aatgagagaa | aatatccaga | aaacacgtac | ttaacaaaaa | actttggttg | agaatatata | 91980 |
| aacatttctg | aaacctcaac | agtaagaaaa | caaacaatac | aaaaataagt | caaaagatgt | 92040 |
| gaatgaggca | ttttactaag | aagacataga | aatcaaccat | tagcacatga | aaagatgctc | 92100 |
| agtattatta | atcatcgagg | aatgcaatt | aatccatgg | agttaccact | atacacacat | 92160 |
| taaaatgact | aatatttaaa | agactgacaa | taccaagtag | gtgaaaatgt | ggagaaatag | 92220 |
| caaactttat | atttagctga | taagaatgca | aatgacgca | gccacttggc | aaaacagttt | 92280 |
| gatactttca | tataaagtta | agcttacact | taaatacaat | cctgcaatct | cattttttaga | 92340 |
| tatataccaa | gataaataac | atatgtcaac | acaaaaactt | ctaagtgaat | gttcatagtt | 92400 |
| gttttatttg | caattagcca | aattacagac | agtaaaaaag | tccatatacc | tgtgaatgga | 92460 |
| taaaacatta | ttatatattt | atgtcaagga | ctattttttca | acaataaaaa | ggaacgagca | 92520 |
| ttgtggtaaa | tgaatgaaac | caggtacaaa | atattacatg | ccatgaaatt | gtagaacaga | 92580 |
| cgaactattc | tctagtgaat | aaaaccagat | tattgggtgac | ttagggccag | gagtattgag | 92640 |
| ttgtaattgg | aaaagaacat | gaggaatttt | ggaagggtgg | gggaatatct | tatatattca | 92700 |
| ctgtggtagt | tacatacgga | tatacattgt | tctacctgca | tcaactgcac | ctacttaaaa | 92760 |
| taggtacagt | ttatttcatg | tacattataa | atcaacagag | tagattttta | aaacaaaaat | 92820 |
| aataaatatga | ttagaattgt | aatctgggtc | atttaattat | tcttaagaaa | atttcctctg | 92880 |
| gttatctact | tctcattcac | attctaaaaa | taaaatacca | aaacaccaca | gaacacaaat | 92940 |
| tcacgagaaa | tagctgcctt | ttcaaatcat | atttatgttc | attactagtg | caagcaaata | 93000 |

sequece listing.TXT

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| gcatatttag | ctctaggatt | ttattcagaa | aagtaccttt | aaggtactta | atgagatggg | 93120 |
| tacaaattta | gccaatcctt | ctggcatttt | ctggttaaca | taatgataat | aattttgatt | 93180 |
| ataagtcatt | tttgtaaaat | gctggcctga | gcagagactt | atgcatggca | ttttattaca | 93240 |
| ttttaattct | tggaatttc | ataaactatt | tgacagcctt | tcagtttagca | aaaaaaaaaa | 93300 |
| ttctataaaa | acagattccc | tttctcaaaa | taatcataat | aaatggtagt | tctcttctac | 93360 |
| tgagcaagta | caattaattg | ccaaagggtga | agtattttta | gtaatccaaa | tgattagttt | 93420 |
| cacaattatc | cattcatttt | cataattttc | agcttgataa | atttcatcta | aaattattcc | 93480 |
| ctagattttt | aattaaatgg | tttgcttttt | aggtttatat | agtgaatact | gttgtaatct | 93540 |
| atttggtata | caaatactca | ctgaattagc | tgaatagatt | ttcatcattt | gaggaacatg | 93600 |
| ggacaaaaaa | atgtattttt | ctgtcagtta | ggatgacatt | agctgcaaat | aacagattcc | 93660 |
| tgattcaaac | agacttaagc | aaaaaggaag | gaagaaatcc | agaggtaggg | cagcaccaac | 93720 |
| catagtatga | cagaattcca | gctgtgattg | ctacagtttt | ctggagtttg | tactctttca | 93780 |
| tatgttggtg | acaagatggc | tgacagacca | ggtataacta | tatacagagg | cacaaaagga | 93840 |
| ccatctcgtc | tctatgaatg | attagccttt | cccagaagcc | cctgcttatg | tctcattggc | 93900 |
| cagaactggg | ttatgtgtct | atcttaagcc | attcactgac | aaggggcgtg | agactacaat | 93960 |
| aggtaattta | gacacatcaa | gataattgta | gactgggcac | agtggctctt | tgggaggcca | 94020 |
| aggaaggcgg | aacacctgag | gtcaagagtt | caagaccagc | ctgaccaaca | tggagaaacc | 94080 |
| ctgtctctac | taaaaataca | aaattagcca | ggcgtagtgg | tgacacactg | taatcccagc | 94140 |
| tattcgggag | gctgaggcag | gagaatcact | tgaaccggg | aggcagaggt | tgacgtgagc | 94200 |
| cgagatcaag | ccattgcact | ccagcctagg | caacaagagc | gaaactctgt | ctcaaaaaaa | 94260 |
| cagaaaagca | aacaacaaca | acaacgacga | cagaaagata | attgtagtct | tccttgagtc | 94320 |
| aaaagggaaa | agagtgtata | cctaaacaaa | atcagtatag | taaggatgag | gatggagaat | 94380 |
| ggatattgga | taggcagcca | acagtgttac | tacacatgtg | aagaggtttt | cttattttat | 94440 |
| ttcctaggac | ttgcaaaaag | tcagtgtctt | ggtactaaaa | agaattgggt | tatttgaaaa | 94500 |
| aaattcttct | ggaattatgc | atactttaca | gcataatttt | ataaaagcag | tcagaatttt | 94560 |
| ttgctagctt | atcagaatct | tgatcaaaa | atattttata | taaaatgagt | ttaaattaga | 94620 |
| aataatatat | attaactctt | ttattcatta | attcaaaaata | ttttttgact | actaatgtct | 94680 |
| gccaagtacc | tggatatggt | ggtgagcaaa | accaaccatg | gccttgttct | catggaactt | 94740 |
| ttagtctagt | ggtggacaaa | gagatttgta | aaataaagac | gggtgtggtg | gctcacacct | 94800 |
| gtaatcccag | cactttggga | ggcttaagca | ggcagatcat | gaggtcagga | gttcaagacc | 94860 |
| agcctggcaa | acatagtgaa | accctatctc | tactaaaaat | acaaaaatta | gcttagcatg | 94920 |
| gtggcatgtg | cctttagtcc | cagctactcg | ggagactgag | gcaggagaat | cacttgaacc | 94980 |
| tgggaggcag | atgtttcagt | gagcagagac | catgccattg | cactccagcc | tggctgacag | 95040 |

sequenece listing.TXT

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| agtgagactc | tgtctcggaa | aaaaaaaaaa | aaaaagacat | ttgtgaaatg | atcatatcat | 95100 |
| taaatgtgtg | tggagtaggt | ggcataagga | aggcttcttt | cctttcctat | gaggctactc | 95160 |
| tcccctttca | tatgctgacc | tttcgattcc | tggaatacat | cctgcttgct | ctgccatgga | 95220 |
| gccttttcat | atgctatggt | ctctgaaata | gttccccact | ctcaatattc | tccacttggt | 95280 |
| tccagataaa | tccagtttat | ctcttctcag | aagccttcct | tatgccacct | actccacatg | 95340 |
| taatgatatg | atcattttat | aaatgtcttt | atccagcact | agactaaaag | ctccatgaga | 95400 |
| acaagaacct | ggctggtttt | gctcactgcc | atatccaggc | acttgaggaga | tattagtagt | 95460 |
| caataatatt | ttgaattgat | gaataaaaga | aacatatcaa | tttgggagtt | gtcgggtatgt | 95520 |
| aaatggaaga | tgaaatgttg | gggtaccatt | tagattgcct | taagagaggg | gcagaaagaa | 95580 |
| ggctagaact | tatcttgata | aaccccagtg | aatgaatatg | catgatccta | tgaagaagac | 95640 |
| aagaaagcag | gagaaaaaat | agtggattct | tgtatctcag | gatttgttca | tgcttgatat | 95700 |
| ggtttggttg | tgtccccacc | caaatctcat | ctttaattcc | cacatgttgt | gggaggcacc | 95760 |
| cagggtgggag | gtaattgagt | catgggggatg | ggtctttcac | atgctgttct | catgatagtt | 95820 |
| agtctcatgc | gatctgatgg | ttttataagg | aggagtttcc | ctgcacaagc | tctctctctg | 95880 |
| cttgctgcca | tccatgtaag | acatgacttg | ctccgatttg | ccttctacca | tgagtgtgaa | 95940 |
| gcctccccag | ccatgtggaa | ctgtaagtcc | actaaacctc | tttcttttat | aaattgcccc | 96000 |
| ttcttgggta | tgtctttctc | agcagtgtga | aatggactaa | tacagtaa | tggtaccaag | 96060 |
| agtggggtgc | tgctgtagat | acctgaaaat | gtggaagcga | ctttcgaact | gagtaacagt | 96120 |
| tagagggttg | aacagtttgg | agagctcaaa | agaagatagg | acaaaattgg | aaagtttgga | 96180 |
| gctccctaga | gacttgttga | atggctttga | ccaaaatgct | gatactgata | tggaacaatga | 96240 |
| agtccaggct | gagggtgtct | taaatggaga | taaggaactt | gttgggaact | ggagcaaagg | 96300 |
| tgacttgтта | tatttttagca | aagagacttg | tggtatgttg | cccctgccct | agagatttgt | 96360 |
| ggaactttga | aattgagaga | gatgatttag | ggtatctggt | ggaagaaact | tctaagcagc | 96420 |
| aaagcattca | agatgtgact | tgggtaccgt | taaaggcatt | cagttttata | aaggaagcag | 96480 |
| agcataaaag | tttggaaaat | ttacagccta | acaattcaat | agaaaataaa | atcccatttt | 96540 |
| ctgaggagaa | attcaagctg | gctgcagaaa | tttgtataaa | taatgaggag | ctgaatgtta | 96600 |
| atccccaaga | caatggggaa | agtgtctcca | gggcatgtca | gaagtcttca | cagcaatgcc | 96660 |
| ccccatcaca | agcctggagg | cctaggagga | aaaaatgggt | cgtgggcccg | gcccagggtc | 96720 |
| ccatactaca | ttgcagtcta | gggacttggt | gccctgcatc | ccagctgctc | cagccgtggc | 96780 |
| tgaagggggc | caatgtagag | ttcaggccat | ggcttcagag | ggtgcaagcc | ccaagccttg | 96840 |
| gcagcttggtg | agtccttaca | cagagttcct | actggggcac | tgccatagtg | acctgtaaga | 96900 |
| agaggaccac | catcctctag | acctcaaaat | ggtagatcca | ctgacaactt | gcaccatgca | 96960 |
| tctggaaatg | cttcagacat | tcaacaccag | cccatgaaag | cagcggctgt | gccctgcaaa | 97020 |
| gccgcaggag | tagaactgcc | caagaccatg | ggaacccctt | tcttgcgctca | gcatgacctg | 97080 |
| tatgtgagac | atggagtcaa | aggagatcat | tttggagttt | taagatttga | ccaccctggt | 97140 |

sequece listing.TXT

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|------------|---------|----------|--------|--------|---------|---------|---------|--------|---------|--------|--------|--------|-------|-------|
| ggattttaga | cttgc | atggg | gcctg | tagcc | cattt | gtttt | ctccag | tttc | tcccatt | tgg | 97200 | | | |
| aacaactgta | tttat | ccaat | gcctg | taccc | ccattt | tatc | tagag | agtaa | ttaact | tgt | 97260 | | | |
| ttttatttta | atttact | ggc | tcatag | gttg | aaggg | acttt | ctttgt | ctca | gatgaa | actt | 97320 | | | |
| tggactgttg | actttt | gagt | taatg | ctaaa | atgaat | taag | acttt | gaggg | actgtc | ggga | 97380 | | | |
| aggcatgatt | ggttt | caaaa | tgtg | aggaca | tgagatt | tgg | gagggg | tcat | gagatt | tgg | 97440 | | | |
| aagtgaaatg | atatg | gtttg | gctat | gtccc | taccca | aatc | tcatatt | gaa | tttccat | atg | 97500 | | | |
| ttgtgggagg | gacct | gatgg | gaggta | aattg | agtc | atgggt | gcagg | tcttt | cccgt | gctgt | 97560 | | | |
| tcttgtgata | gtgaaa | acgt | cttat | cagct | ctgg | tgggtt | tttttt | tttt | tagat | gg | 97620 | | | |
| agtctcacc | tgcca | accag | gctg | gagtg | aatgg | cacga | tctcg | gctca | ctgc | agcctc | 97680 | | | |
| cgctgctgg | gttca | agtga | ttctc | ccgcc | tcagc | ctcct | gagtag | ctgg | gattac | aggt | 97740 | | | |
| gcccgccacc | acacc | cagct | aattt | ttt | gta | tttt | tagtag | agatg | gggg | aa | 97800 | | | |
| tggccaggct | ggtct | caaac | tcctg | acctc | gtgat | ctgcc | ctcct | tggcc | tccca | aatg | 97860 | | | |
| ctgggattac | aggcat | gagc | taccat | gcct | ggcct | gaggt | ctgat | cgttt | tata | aggaga | 97920 | | | |
| agtttccctg | caga | agctct | ctctc | tcct | gctg | ccatcc | atgta | agatg | tgact | tgtc | 97980 | | | |
| ctccttgcct | tccacc | atta | ttgtg | aggcc | tctcc | agcca | tgtgg | gatgg | taagt | ccact | 98040 | | | |
| aaacctcttt | ctttt | gtaaa | ttgcc | cagtc | ttggg | tatgt | ctttat | cagc | agcat | gataa | 98100 | | | |
| tggactaata | caatg | ctca | aaca | agtaag | aattt | taaaa | tgtc | ctttg | attt | gtcaat | 98160 | | | |
| agagtagtaa | ttggt | aatca | ttgtg | agaat | tattt | cagta | aagt | gatgg | aaaaa | agcca | 98220 | | | |
| aactggaaca | ggctg | agaat | gaatg | ggaag | aaagg | aaaag | aaaca | agaga | gcatg | gacaa | 98280 | | | |
| atctaagaca | tttag | ctgta | aagtt | gagga | gtagc | tagag | ggaga | tatca | ggtag | gtatg | 98340 | | | |
| gggagattta | atttt | caaga | tagaa | aagac | ttacg | tttca | atatc | agtg | taac | aggcta | 98400 | | | |
| gttgagaagc | agtag | atgaa | tatac | atgag | agaga | agaaa | tgatg | gataa | tacaa | actgc | 98460 | | | |
| tttaaaagct | gagag | catac | ataat | tga | aa | gataag | tgg | aatatt | ggcc | ttagat | agga | 98520 | | |
| gcaggaactc | ttgta | atata | actg | gaagga | aaa | agagt | gg | ctgt | ag | aaata | agtag | 98580 | | |
| gcttgtagct | ttgat | agcag | taag | atgag | cttca | aat | ctctc | tgaca | tagg | agatca | 98640 | | | |
| tgtcatctgc | tgaaa | atgaa | gagg | caatta | ggga | aggaaa | ggct | aggt | ag | gtaag | cag | 98700 | | |
| attagagatg | gttg | gaaata | ctct | gtggaa | agt | gggagag | aaatt | tgacc | aaaga | aatga | 98760 | | | |
| aatagaagtg | gctg | ggcag | ctg | agggg | ac | tatg | gaag | tt | ggtg | atcatg | aatgat | agta | 98820 | |
| atgttgatat | gttc | agttgt | gtg | acttt | gt | ccagc | agcac | cagg | cctctc | attgt | gcccc | 98880 | | |
| cagagtggaa | agtga | aggtc | gcc | cagag | tt | aggatt | tttgc | aagc | tatgtg | tagta | aaaag | t | 98940 | |
| tatctaagat | tgag | gaagaa | tgact | tag | agat | tagaga | agat | gat | atg | cttg | aacat | caaga | 99000 | |
| tcctgggtgt | tg | gggacagc | gctt | gttt | gt | tttt | gttcaa | taag | aggg | tt | gggg | agaaa | t | 99060 |
| tatcttga | aa | tagcatt | gta | acacc | acttt | ccaa | acttga | gatt | gtgt | ga | tagg | agagaa | 99120 | |
| taaattctca | ccact | tgaga | gcg | cttt | gaa | gaag | ttag | tgtg | ac | ctcag | ggg | aaagc | ctagt | 99180 |

sequenece listing.TXT

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| gtacacaatg | gaagagtttt | agaaatgaat | aaaggagttc | aggctaattt | atacagaaca | 99300 |
| gaaaaatata | gagcttcagt | tgaatgttga | tgcaaacttt | ttccataaaa | ggcaaacaaa | 99360 |
| ataattttgg | ttttgcaagc | cagaaggtct | ctgtagcaac | tatctcagcc | ttgctgttat | 99420 |
| agcatgaaag | cagccataga | agatatgtaa | atgatcaaat | gtggctgttt | tacaagaaac | 99480 |
| tttatgtaca | gtacttaaat | ttgaatttca | tgtttaaadc | tatcacaag | tatgattcat | 99540 |
| cttttgattt | ctgttttagg | aattcaaaat | gtacaagcca | ttcttagcct | ataggccaca | 99600 |
| cagaaacagg | ctatggactg | ggattggcct | ttggactgta | gtttgctaac | tcctacagta | 99660 |
| gagaatcttt | tgaggagagt | gtgttgggga | agtgtaaagt | ggggcttatg | cttccaggca | 99720 |
| ttaaactata | gaaccatatt | aaaaggtttc | aaggttctct | gtctgaggag | aactgacatt | 99780 |
| tttgggtctg | atggcttatt | aacctggttc | atatgaccta | cgggtgatgt | ggcctaagta | 99840 |
| tactctctca | tctgaactga | agtagtggca | accagaggt | tctggccatt | ccaggagctg | 99900 |
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| acttacaaga | cttcagtaag | ggagccagac | acaagataaa | atattcagaa | attaatagtt | 5160 |
| ttgcgatcag | gttaccaatc | tttctgattt | gcctggaact | gggagggtgt | ccccaggaca | 5220 |
| ctagactttg | agtgtctaaa | ctgccagggt | cccaggcaaa | ctggaacaga | tgaatcacat | 5280 |
| taaaagcaat | aatcactggg | gaacacatcc | tattcacaac | tgtaataaaa | gctataaata | 5340 |
| cctggggaca | aaatttacta | ctaactagag | gcaagaggga | attaaaacaa | aatattctcc | 5400 |
| caccagattg | gccagtattt | cagaagctgc | taagacctag | tggttggtgaa | ggtgtttggg | 5460 |
| aaaataacag | ctgttcagag | aactacttag | tagattgagc | aatcaataa | tttccatcca | 5520 |
| agagttccag | ttcaaggaat | ctgttctgca | gaaatgctca | cacatagaga | ttgcagattg | 5580 |
| gcctccagaa | gagctgaatc | catttgcatt | cccacggggg | gtgtctgaga | gctcctcttg | 5640 |
| cccagtgtca | tccttgtcaa | ttcagaggga | ctgtctcttg | agtactgtaa | taaagacctg | 5700 |
| acttgataa | cattaatatt | ctgtattgtg | agaaaggaaa | aaggacgatc | ctactttata | 5760 |
| cagatcagca | ttgagtaact | cacttactaa | gtaggtatag | actcagcagc | cacagcttct | 5820 |
| ttctggacca | cattcccagg | tcacagagtt | aacatagcca | ggaagaaaga | gcaccgcacc | 5880 |
| gggagaggga | aactgagcag | ctgaccctag | ctctgtgccc | gctggcagca | tcagttccct | 5940 |
| tctctggggg | tcttcatttt | actatctgaa | atgaaggacc | cccccaagc | atcttggggg | 6000 |
| cacagacccc | tgtaagaatc | tgcgagaaga | aatggcccta | tctccccac | ttgttgtaga | 6060 |

sequenece listing.TXT

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| acagctaaga | tttcttgagt | ctgaattata | gttggctgag | tctaccgtag | tctcagtaag | 6180 |
| ctttaccaga | cacaattcat | gtattttcaa | ctaatacacc | ttttagaaat | cacacctctt | 6240 |
| ctttgatagg | cagtgtgtgc | acatggtgcg | tagctggaaa | ggccatacag | tgaaaaccca | 6300 |
| cctccctccc | tgcttgctc | cctcgcagga | gtccttcctg | agattgggaa | acagttacaa | 6360 |
| gcatactgt | gaatttttat | agataaaaaa | gatcttaag | ttttacatat | gtaaaatata | 6420 |
| taccttcttc | aaagaaggat | atgaaacaac | agtaaaagac | aggcataaat | gtagcagttt | 6480 |
| acaacacaga | gtcaactgtg | agctcagctg | tggtcgagaa | ttaatttttag | ctctgggttt | 6540 |
| ctggcaacta | aatccaaaaa | aggaagcaca | gcaggtgaca | cagctgacat | tgtctcataa | 6600 |
| aggggaatat | atgcttttaa | tatatttaaa | agggagctct | ccccaccatc | ctgagtgatt | 6660 |
| cgtattttatt | tttaatttgt | actttgcttt | gctttttaaa | ctttgctttt | tttttttagc | 6720 |
| aaaaactaat | ataaccacac | tcttaaaagt | ttaaaactag | agttaaaaaa | aaattctgta | 6780 |
| tgttcatcat | cttagtgtaa | ttattgtcag | cactgaggta | tttttttcac | ctttgtttct | 6840 |
| ttttgctgac | tctcattatt | gtaatcatgg | tatcattttat | atctttttcc | attgaacatt | 6900 |
| atattataaa | ccatatttca | catttagttt | ctaaaatcca | taatttttaa | tagctccata | 6960 |
| atgtgtaatt | aattctttat | gcaactttat | aatggccaat | aatcaggaag | ctgtttcttt | 7020 |
| tcagcttttt | gctcttaaaa | ggaatattga | acatcttgat | tcacttaaat | ttgtctgttt | 7080 |
| ctcactttga | tttcagaata | gattctcaaa | aagcaaaatt | actgggtcaa | agagtgaaga | 7140 |
| gatttaagcc | ctttttacac | acttccaatt | ggattaatgc | caccagcagt | gtctgagagc | 7200 |
| gtagtttttg | ctgcactttt | gcctgaaatt | aaacttttca | aagaaacgta | gcaactgaat | 7260 |
| gcttatttta | tgagagactc | agggttttaa | gaactacttt | ataggaaatg | taagaacagc | 7320 |
| tctgaatttg | gcccttctat | tctacactga | cgtaaattgt | cagcgtaaaa | cagagaaacc | 7380 |
| tgcacacata | tcacgccagg | actcacgcat | agaggagccg | gaaggcagga | cattaaaatg | 7440 |
| caactcagcg | cacgctgcac | tgtttcccag | gggaagggtg | gttagccgaa | actcatgcca | 7500 |
| caccattac | tgctttttga | gataaaatag | gaaaaaagta | tataattcta | catagttgag | 7560 |
| taagttcaca | ctcacacttg | ttacacaggg | cttcatgtac | cagtggccgg | ttttatttct | 7620 |
| taaatgggta | gtaggtgtgt | agagattcat | attatttttc | atatgctttt | gcatgcctta | 7680 |
| actctgtcaa | aaaaaagata | tcagttgtct | caaagggtgtg | gtcacggaaa | aggcagcttt | 7740 |
| catggagaag | gttttcagca | ggcatggct | gtctggcccc | ggcccagttc | gccccaggcc | 7800 |
| tggcagcaac | tgagggaccc | aaccagttc | ggatgggtgc | cccaggagg | cctcaccac | 7860 |
| cagcagtcaa | cgcagtgcag | ccaggacctg | gccagggtctc | aagagagagt | cgaagccatg | 7920 |
| aactgatctt | tatgacatga | gtgcatcaca | aactattgaa | gtggtgagaa | gctagtttct | 7980 |
| cacagctgcc | actttagcaa | ttgtgagttt | tctttggttt | atttgaattg | aacattggga | 8040 |
| gagtgtgaag | tctttctagc | tgttgacaaa | tgggatcacg | aagattaaga | caaattaaga | 8100 |
| cagacctatg | gtgcccattt | agttatctaa | ttgtccctgt | aagccttcaa | aaatgttaga | 8160 |

sequece listing.TXT

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| gacttgcaac | cctattttttg | attcagaatg | ttttaagttt | tcaacagggtt | gtactaacat | 8280 |
| gatatgtctt | taataggaat | tttagcaagt | tgacaccatt | ttgagttaag | aattgtgact | 8340 |
| tgtttaaagt | aatatgctta | tttgttaaaa | taacatatta | tggagaatgg | agaagtatcc | 8400 |
| agaatgtata | aacattctat | attgttttagc | taaatagttt | ttaagtcggt | ctccagtaaa | 8460 |
| agaggcagaa | ttgtctgtga | actggagatg | atccatcctc | actggcttta | taccatattg | 8520 |
| ttccagttag | agttggtaaa | ttacaataaa | ccagtgtcat | tccattttcca | aatagagttt | 8580 |
| gaaatgattt | aggaaacact | cacttacatt | agtagtgtat | actttttaaaa | gtgaaagtta | 8640 |
| cctgtaattc | cagcactttg | ggaggcgag | acaggcagat | catctgaggt | caggagttcg | 8700 |
| agaccagcct | ggccaacatg | gtgaaaccct | gtctctcctg | aaaatacaaa | aattagccag | 8760 |
| gcgtgatgag | tgctgtaat | cccagctact | cgggaggctg | aggcaggaga | atcactggaa | 8820 |
| cctgagaggc | ggaggttgca | gtgagccgag | attgagccat | tgactgcag | cctgggtgat | 8880 |
| ggagtgtgac | cctgtcaaaa | aaaaaaaaaa | aaagaaaact | tcccagttgg | gcagtggcta | 8940 |
| atgcctgtaa | tccaacact | ttgggaggct | gaggcaagta | gatcacttga | gcccaggagt | 9000 |
| tgaaggtcag | cctgggcaac | atagtaagac | cctctgtaca | aaaagttttt | ttaaattagc | 9060 |
| taggcgtggt | ggtgtgcacc | tggggtccca | gctattcagg | aggctgaggt | gggaggatca | 9120 |
| cttgagctag | ggaggttgag | gctgaggctg | cagtgtgagg | tggttgcgcc | actgcactcc | 9180 |
| agcctgggag | acagagcaag | accctgtctc | aaaaaaaaaa | aaagaaaaac | ttctgtaatg | 9240 |
| aattgctggt | tgcatagcag | tcatacctac | tctattgttg | gaaagttttg | tgggaaaaga | 9300 |
| atgaagcacc | agaaaggtaa | acgttcttcc | agcctctttc | tgtattttcta | actttttctt | 9360 |
| ccagattcag | ggctagaaga | gggggcagga | gtgcacagac | ccttgacact | tattccatca | 9420 |
| cccattgtga | gcttgaaacc | agagggggga | ctcagagaaa | accctgggga | cctgttgcag | 9480 |
| ccccactgcc | aaaaagctta | gagttggcag | cctcctgcta | actgtctgga | gtcactgact | 9540 |
| aacatcacac | cgtatcagta | cagaagatgt | tcagttcaca | actcccaa | atttaactgg | 9600 |
| aacatctgtt | gctatgagac | agtggcaaaa | tattttttcag | aagtcaccag | cttcctcctt | 9660 |
| tcatcaagag | cacagaaaac | ttcatggcta | ttcatgctat | aaatattgag | gaagctgggt | 9720 |
| aaatggtgtg | agctgcagag | ggagtcaagt | tcagcatctc | cgtccactta | cagctagctc | 9780 |
| aggctctgatt | gattgggggtt | ctatgtttgc | caaaagccac | ctactatttt | cagttgtttg | 9840 |
| tttctgctat | tttaatgaaa | taggtcccag | gctattttga | cagctgccct | gggtctttcc | 9900 |
| tttgtaaaat | gtgacagttc | tagcaccgag | tgtggaccag | ccccgagctt | gttcctccca | 9960 |
| atacctatgt | tgtagttttg | ccaggtgctg | cctgctaggt | tgggtgggga | aggggtggag | 10020 |
| agaagtgggt | gggggcttag | gaaggacggt | gaccattttc | tcgcctacta | agagaaggca | 10080 |
| gtcagctagg | attcactgtg | caacacagct | gggcaggaag | aagagaatcc | cctgtttgtg | 10140 |
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sequenece listing.TXT

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| gcctagccccg | gcccctctgc | agagccatag | ggcctgccat | gccagtgaca | ctgggctttg | 10320 |
| gactgcaaaa | tggggcaaag | acaataggag | agaaaggctg | agctgatttc | tcagtgggac | 10380 |
| tgagacggag | atctaggag | gctgatgctg | cagacaagtg | caagggccct | ctgtggtcag | 10440 |
| tttcagctgg | ccagttctgc | tctctgaaa | cttcagtgtt | caatatttaa | atgtgtggtt | 10500 |
| ttgtttgttt | gtttgtttga | gatggggctt | cgccttgtca | cccaggctgg | agtgcagtgg | 10560 |
| tgtgatcata | gctcactgta | gcctcaaact | cctgggctca | agcagtcctc | ccacttcacc | 10620 |
| ctcctgtgct | aggattgcag | gtgtgagctc | ccatagctgg | tcttatacaa | aaaaaagtgt | 10680 |
| ttaatgtttt | catgtcaaag | ttaaaacaaa | gtgcttgtac | atggtttttt | caaacagtac | 10740 |
| acatagattg | tgtatacagt | gcagaaagg | aaagctgtca | tcccttctac | tggtggcccc | 10800 |
| tgaggtttta | ttccctagg | ggataaccga | gtgtgtcgac | agttgtgctg | tgtcctgctg | 10860 |
| acatttttcc | tttttccttt | tttttttttt | tctttttttt | tttgagacgg | agtttcgctc | 10920 |
| ttgttgccca | ggctggagtg | caatggcgca | atctcggctc | actgcaacct | ccacctcctg | 10980 |
| ggttcaagca | attctcctgc | ctcagcctct | ggagtagctg | ggattacagg | cacctgccac | 11040 |
| cacaccagc | taattttttg | tatttttagt | agagatgggg | tttccccata | ttggccaggc | 11100 |
| tggtctcgaa | ctcctgacct | caggtgatcc | tcctgtctcg | gcctcccaaa | agtactggga | 11160 |
| ttacaggtgt | gagccaccgc | gcccggccct | gctgacattt | ttctgtgtcc | atgtgcacct | 11220 |
| aggtgagcac | acagagctga | ttttgtctgg | ggaaaatggg | atcctgctat | acacaccatt | 11280 |
| ttgcagcctt | ttgaaaaatt | cattaatgta | tctcagacat | cctccgtgac | agtcacagtg | 11340 |
| cctaccattg | tatatgtcat | catttagtaa | tttccactt | actgatgaca | ttttaaaatt | 11400 |
| tttcattaaa | gaagagctgg | gctcaggcgt | tcacacctgc | catcccagca | ctttgggagg | 11460 |
| ccaagacagg | atgatcactt | gagttcaaaa | gtttaagacc | aacatggaca | acataagggg | 11520 |
| accctctcta | caaaattttt | cttttttttg | acggagtctc | actctgtcgc | ccagggtgga | 11580 |
| gtgcagtgg | gcgatcttag | ctcattgcaa | gctccacctc | ccgggttcac | gccattctcc | 11640 |
| tgctcagcc | tccggagtag | ctgggactac | aggcgccgc | caccatgcca | tgctaatttt | 11700 |
| ttttatattt | ttggtagaga | cggggtttca | ccatgttagc | gaggatggtc | tcaatctcct | 11760 |
| gacctcgtga | tccaccgccc | tcggcctccc | aaagtgctaa | gattacaagc | gtgagccacc | 11820 |
| gtgcccagcc | aaaaaaatgt | ttttttaatt | gtcccagcta | ctcaggaggc | tgaggcagga | 11880 |
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| atactttaat | attcacttat | cataaaataa | atgttttagt | taaaatgtca | taaagctaga | 12060 |
| aatgaactct | cttaggacct | catccttcaa | agacaacctg | tgctttctta | attgcattgt | 12120 |
| aaatgtttta | ataaagtaat | tttttttttc | attttgctag | ctagctaggt | aaaacatttt | 12180 |
| catggtttag | gacttaaaag | gaacaaaagg | gtatatagtg | aaaagttgat | ctccttccta | 12240 |
| ccccgaacta | gtgttaagat | tcttgaatgt | cctttcaggt | atgttcaggc | agacgcatat | 12300 |

sequece listing.TXT

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| tggctcccca | gcaacgtatt | ttgaagatct | ttccattttca | caagtatggc | tgccctcattc | 12420 |
| ctgttgatgg | ctgatagtat | cctctgcaga | gataccgccg | tggattttaac | cagtcttcag | 12480 |
| ttgataggta | tttgggttgt | tccccttttt | attattataa | attgttcctc | agtaaacatt | 12540 |
| tgtatatatg | tcattttgca | catgtatggg | tctatctaga | aaaacttaca | gaagtgtaat | 12600 |
| tgctgtgtct | aggggggataa | ttttgatagc | tgtagctcag | ctgttctaca | gcccactgcc | 12660 |
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| tgcgtttccc | ttatgagaag | ggtttagcat | tatttccagt | acctaagcta | ttggaatttc | 12840 |
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| cagaatttgt | tttttcttgc | actgaacacc | tacagtgtgt | agcactgata | aatgcttcat | 13080 |
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| ctgtgaattg | ttgccaccag | ccgtgtgtag | acaaaagtca | agttggagta | agtggggaga | 13440 |
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| aaaataaata | aataaataaa | taaacaaaat | tgagttaagt | gacagatgat | tgaaaatact | 14100 |
| tttttttttt | tttttgagac | aggttcttgc | tctgtcacc | aggctggagt | gctgtagcac | 14160 |
| aatcttggct | cactgcaacc | tccatcttct | acgtttaagt | gatcctcca | cctcagcctc | 14220 |
| ccgagtagct | gggactacag | gcatgcacta | ccagaccag | ctaatttttg | tatttttagt | 14280 |
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sequenece listing.TXT

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| aattcattcc | catttacata | tatctgtgga | caagattttct | catatatgta | aaaattaaga | 14460 |
| ggaatagaat | tgatcccaag | ccttggccct | ttctggcagt | atttaatat | cacccttgga | 14520 |
| taaatgaatt | aataggaaaa | aaatagatat | agataggtag | atagataaca | tttaataactt | 14580 |
| tgtaatcaca | ggaaattaaa | aagaatcaac | ttcaactgat | tggaattatt | tctgattttt | 14640 |
| aatatattct | atcaatacat | ttaacagaag | aagagttttt | taaagtgatt | atattgtttc | 14700 |
| cagaaattaa | aattatatca | tatgcaacta | tttgacttat | gaaaaataat | agatgttaac | 14760 |
| tttaaaataa | atgagaggta | tctagtatct | agttttttca | aatgttcatt | agccaagtgt | 14820 |
| agtggcatgt | gcctgtagtc | cctgctactc | aagaggttga | agtgggagaa | tcacttaagc | 14880 |
| ccaggagttc | aaagctgcag | tcagctaggg | tggtgccagt | gtacgccacc | ctgggtgaca | 14940 |
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| ttgcattata | tgaaactcgt | agtgccca | aaacaaaaa | caaaaattag | ttcctccac | 15060 |
| tcctacgtgc | atctgttcat | atggacatac | aaacctgtgt | aattttttaca | gctgggaaaa | 15120 |
| aaatgcttct | gctagtga | taatccattt | taaaatgaga | taaaatgaaa | aataggattt | 15180 |
| taaatttaag | agccaatctt | tcagattcaa | tttttttttag | gtaaagtaag | atatacataa | 15240 |
| gcctgtctgg | caaaaatgca | ccattatggg | gctggcccgg | tggtcacac | ctgtaatccc | 15300 |
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| taacatggtg | aaaccccatc | tctactaaaa | aatacaaaaa | attagccagg | cgtggtggtg | 15420 |
| ggtgcctgta | gtcacagcta | cttgggaggg | tgaggcagga | gaatggtgtg | aacccgggag | 15480 |
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| gactccgtct | caaaaaaaaa | aagcaccatt | atgcagaaaa | cagactaggt | ctctttcttg | 15600 |
| ttacttgaac | tctgcataaa | atacagaagt | ctttcagaca | tattaagctc | cttttctcaa | 15660 |
| ctggcctgga | aacaatttga | gggcaggaat | tacttctgt | gcttagtatt | taattatagg | 15720 |
| ggcagaataa | ataattggtt | ctgcaaacat | tttgcaacag | taattctgga | tgatgaatga | 15780 |
| ggggctccat | taacatgaaa | aagtgtcaag | ttttaaaaat | aaaatacttg | ggccgggagc | 15840 |
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sequece listing.TXT

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sequece listing.TXT

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chromosome 15, reference assembly, complete sequence

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| tcccctttcc ccagtaaaac tcatccctta atctagtggg tctcaaactt tgggtgtgtat | 180 |
| caaaattatc tggtaggctg gataaaacac agattgctgt gcccacttc cagaacttct | 240 |
| ggttcaatag atctagaagg agactgggaa tttgcatttc taacagggtcc ccagatgatg | 300 |
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sequece listing.TXT

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| atgatccagc | ctataatggt | aatagtgtgg | aggctgaaaa | accctgttgt | aggacagtgg | 1860 |
| ttcaciaaagc | atcagcatca | cctaggaact | tgctagaaat | ctctaagata | gatacatagg | 1920 |
| agtggaattg | ctgggtataa | aataagcagg | tattcacatt | aataagatta | tgccaatttg | 1980 |
| cccattttat | tgtgggggtg | tgtttctttt | tctctatata | ttttgtttat | atgttctctt | 2040 |
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| ctcacagctt | ggccataata | ttattctgtt | gaacattaac | aatttaaatac | tcatagaata | 2160 |
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| attatctaag | cataggcaaa | aacaaggtct | ttgtgtcacc | cataagataa | cagacacccc | 2280 |
| ctttctggat | aaaatgtaca | acagctactt | tttttattat | tatactctaa | gttctaagggt | 2340 |
| acatgtgcac | aacgtgcagg | tttgttacat | aggtatacat | gtgccatgtt | ggtttgctgc | 2400 |
| acccatcaac | ttgtcactta | cattaggtat | ttctcctaac | gctatccctc | ccccagcccc | 2460 |
| cccacctctc | aacaggcccc | agtgtgtaat | gttcccctcc | ctgtgtccat | gtgttctcat | 2520 |
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sequece listing.TXT

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sequenece listing.TXT

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sequece listing.TXT

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| ttatct | tttcc | tcaatg | aatt | tctaag | gagc | attgaa | at | gtgtga | aaga | aaggct | tcca | 8100 |
| aaagta | aata | agttta | aaaat | ccagg | gttt | gtattat | act | ttcag | atttc | cacaa | aggcc | 8160 |
| cagttt | ctct | gttttt | tttt | taaag | ttaa | aaaa | agttga | aatca | aaaag | cccc | aagtgg | 8220 |
| gaagta | at | gtgtgt | tatct | aaatatt | gtg | tacatt | cact | gtttt | atccc | agca | at | 8280 |
| aaactg | gggtg | tgcaga | aagc | agcctg | gagc | aaaa | acattg | taatg | ggag | taag | agatca | 8340 |
| ggattt | ta | gatgg | tctgc | tactaat | ct | tacgaa | aatg | gtttgt | gtat | aggttt | caga | 8400 |
| ttcctt | aaat | atgtag | aata | agacta | cata | atcttc | caagc | ttctct | gcag | cactta | agtt | 8460 |
| cagatt | ctac | ttaag | cactt | acgga | atgtg | tcagt | gta | ttca | at | tttac | cctatt | 8520 |
| atttgt | tagca | aagc | at | cagat | gaatc | atagg | gtgtg | ttctct | tcag | ttt | caaact | 8580 |
| ttggag | caaaa | accta | tata | gtgct | tttgg | cgcc | ttaca | gtta | atagga | tttgc | caggat | 8640 |
| acaata | gttt | tagaca | agct | cctgg | tatgt | gttgt | gaaca | aacg | tttct | gaag | aggaat | 8700 |
| ttggag | caaaa | gcaact | at | caggg | aacag | tttg | caaact | gggg | agttga | agcct | taggt | 8760 |
| gtaaa | acaaa | ggtgc | attcc | agaga | acaaa | gggag | gggtt | gggtt | ttaca | gcaaa | agttt | 8820 |
| ctgccc | aggt | tcccag | tcag | gttcg | ttt | acaa | atgaac | gattga | aaccg | cactta | gttc | 8880 |
| tgattg | ggtg | atacag | ctga | gccct | gattg | gttgag | gcag | gtgag | cccta | taag | acccaa | 8940 |
| cactca | acag | aggtgt | gggt | ttggg | gagaa | cgcag | agtcc | atgtgt | gacc | tctag | taggt | 9000 |
| aaatga | ccac | gtgtct | ctat | tttaa | at | gacc | cagtta | gccg | ctctg | atgtt | gacgg | 9060 |
| attggc | tctt | tcagg | ttcac | attgt | ttcac | agtct | gtatg | acca | agaaat | ttgca | aaaaca | 9120 |
| gaaca | actag | cgcta | actct | taata | gcctc | agtc | agaata | aacag | acaag | acact | gcacc | 9180 |
| aagggc | gtat | gggc | attgca | cctgc | tcctc | atggg | ctgct | ttccc | gagcc | ttatg | cccac | 9240 |
| agccct | cctt | agcatt | atc | cattat | gagg | ctgga | agtgc | ttttt | ttttt | ctttc | tttct | 9300 |
| ttttc | ttttt | ttttt | ttttt | tttgag | acgg | agtttc | gctc | ttgttt | ccca | ggctg | gagtg | 9360 |
| caatgg | cgcg | atttc | gggctc | actgc | gaccc | ctgc | ctccc | ggttc | aagcg | attct | gctgc | 9420 |
| ctcag | cctca | gcctc | cagag | tagct | gagat | tacag | gcag | cacc | accacg | cccgg | cta | 9480 |
| tttga | tattt | tagta | gaggc | gggg | tttctc | catgt | tggtc | aggct | ggtct | cga | actcca | 9540 |
| acctc | aggtg | atccg | ccccg | ctcgg | cctcc | caaag | ttctg | ggatt | acag | cg | tgagctag | 9600 |
| cgcg | ccccg | ac | cagagt | ct | ttttttttt | ttttttttt | tctca | agcag | agggt | at | ggg | 9660 |
| tctact | tctt | tgaac | attcg | ctcag | atcgt | aagg | ta | accc | caaga | atcg | catcactctc | 9720 |
| tggtc | tgggc | gcctg | gatag | tcacg | catgg | agtc | cgcgag | gtgct | ggcg | cggag | cacgc | 9780 |
| tggga | acgcc | gggct | ccccg | ccggc | ctgac | ccgga | agggc | tggcg | catgg | ta | accccagc | 9840 |
| ttcc | tagca | acca | agcagg | cgca | agaagc | aacc | agccgc | gctat | ccgct | cccgt | tgtcta | 9900 |
| ccgga | atgcc | tcttc | agggt | agc | gattaca | gctgg | cagca | gacga | agact | gcggt | cctttc | 9960 |
| tgtct | ctgcc | cctca | aaggc | gtgtg | cg | tca | gagac | acgga | acgga | aaaact | 10020 | |

sequenece listing.TXT

| | | | | | | |
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| atctgaaggt | aagaatgcaa | gtcttgccctg | ccgggtctccg | gggggtgtggt | ccgaagcttc | 10080 |
| tgcaagagcg | cagctgggca | cgagcaacag | gctcatcttt | gccgataaac | gtcctaaatt | 10140 |
| tttaatccta | ttaaaaaaat | gaatcccata | caggtaacac | accatctgta | gacagataat | 10200 |
| cagatcagag | actactttta | tccagggcct | cctcatatgc | cttgctaata | tttactacc | 10260 |
| tggcataaat | ttagtgggcc | ttttagaaag | ttatttttacc | tttttcacgt | gtttcttaat | 10320 |
| acgcgtgctt | aatttgtgta | actaacttag | tttctgtttt | cacccttctg | cataggtcaa | 10380 |
| ctttcctcca | tttttatttg | aggcatttct | ttatgctccc | atagacgatg | agagcagcaa | 10440 |
| agcaaagatt | gggaatgaca | ccattgtctt | caccttgtat | aaaaaagaag | cggccatgtg | 10500 |
| ggagaccctt | tctgtgacgg | gtggtaagtt | ctttattaaa | agatgttcat | ctggttgtag | 10560 |
| cttttcgggt | tcagaccttt | taaaaaattt | tattttgaag | cacctatatt | gtgtagggga | 10620 |
| agatagattt | ttttttttta | agagtcttgc | tctgtcgccc | aggctggagt | gcagtgcacat | 10680 |
| gatctcggct | tactgcaacc | tctgcccccg | gggttcaagg | gattctccta | cctcagcctc | 10740 |
| tcaagtagct | gggattatag | gtgtccgccca | ccacgcccgg | ctaaattttt | ttgtattttt | 10800 |
| ggtagagcgt | tttgccatgt | tggccaggct | ggtctcacac | tcctgaccgg | tcattaagtg | 10860 |
| atccacccgc | cttgacctcc | caaagtgctg | ggattacggg | tgcgagccac | cacacccggc | 10920 |
| cagatagact | ttcctttttac | tctccaaggt | tcaatagctg | ggtctataaaa | ataaactaac | 10980 |
| aacagaagga | ttgacagaag | aaaatgtata | gaaatttatg | aatttttaaat | attagtgctt | 11040 |
| gagggcatca | cagggaaaaa | agtgaatacc | ccccaagcgg | tgagatttga | gagtttaggg | 11100 |
| actgtcttaa | taggggaagg | gggaggggat | gtaggccgct | tagaacagga | aatgattttt | 11160 |
| aggaaagatg | aatggatcct | tagaagaata | gataggaaat | gtgatagctt | ttaacaaaat | 11220 |
| ttgtcagagt | gtggtgttga | cttgtagttt | ccttttctgg | gagaatagtc | aatattccct | 11280 |
| ggtaaatgaa | actccagggg | aagagattta | tgacacttgg | gttccttttg | aaaatctggt | 11340 |
| tttaggcaga | taagaggagt | tctggcaaaa | cctctccctg | catttgctgc | tttcaagtgc | 11400 |
| ctttaactca | aaatgatcgc | tatatgaaag | cagcatattt | tggggtggca | tatcctgaac | 11460 |
| tcattcaatt | gctgttttag | aaaaaaaaaa | aggcttatga | gcctaattta | agtatacag | 11520 |
| tgcttcagca | gccatttaaa | taaacctaaa | ggctgaatta | gtcaaagtta | gagcacatta | 11580 |
| agcagaagat | gtgggctcat | gtcttaaggg | taagccctcc | tgatatatag | cctttattga | 11640 |
| gtacttaact | ttgcgttagg | tgtaacatg | cctgtaattc | catgaaacaa | cctgtcactt | 11700 |
| aggattattt | accctttttt | tacaggggag | gctactgaca | tatggaaagt | ttgagtaatt | 11760 |
| ggcaaaatca | cacagctagt | gactggcagc | ctggaactgg | agccttagca | gtttcactct | 11820 |
| agagcagatg | ttcccaacct | tggctacata | tttgaatcag | ctatggaatt | ttaaaataat | 11880 |
| actctaattc | agtgaaatca | gtttctggga | ataggactca | ggtgttgga | gttttgaaaa | 11940 |
| gctttccagg | aattataatg | tgcagccaaa | gttgaaatcc | ccagttgttg | tttgtttggt | 12000 |
| tggaaagaca | gagtctcgct | cagtcacca | ggctggagtg | cagtgatgcg | atctcggctc | 12060 |
| actgcaacct | ccgcctccct | aggtttaagt | gattcttcag | cctcagcctc | ccaagtagct | 12120 |

sequece listing.TXT

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-------|
| gggactacag | gcacgtgcc | ccacgtccag | ctaatttttg | tatttttttag | tagagacaag | 12180 |
| gtttcactat | atgttggcca | ggctggtctc | aaactcctga | cctcaagtga | tccacccacc | 12240 |
| tcggcctccc | gaagtgccgg | gattacagcc | atgagccacc | gcgaccggcc | tgacatcccc | 12300 |
| agttttaaag | ctagtctctt | gtagtcttat | taagctagtt | gtcagtgcct | tgtactaata | 12360 |
| ccaagatcag | cttccatagt | cagtaattgt | cctctactgc | tttagccctg | ttttcctcct | 12420 |
| tccttcttta | gttgtcatgt | tttctaatac | tttatgttta | ctgcctggaa | tttatttttt | 12480 |
| ttaattttga | gttttttaag | agatagaatc | tcaccctatc | accaacgctg | gagtgcgggt | 12540 |
| ggtgttacca | tagctcattg | taacctcaaa | ctcctaggtt | ccagcaattc | tcctgcctcg | 12600 |
| acctcctgag | tagcagggac | tacaggtgtg | caccaaaca | cctaggtaat | tgtttttatt | 12660 |
| ttttagagag | caggggtctc | ctatgttgcc | gataggtctt | gaactcctag | gctcaagtga | 12720 |
| tcctcccact | ttggcctccc | aaatgctggg | atttcaggcg | tgagccactg | caccagact | 12780 |
| actgcctgga | atttctttta | agcctttggc | attaagcctt | gaatatggac | tcttgagggg | 12840 |
| agaaagagtt | gcaaccattc | tttctatcaa | ggctttcttg | gtatcttgta | gtggaattta | 12900 |
| atttttaatt | tccaagacca | aggtagaatt | tatttttcta | agatcgggta | ttcagctcag | 12960 |
| agaatactgg | ttaaggtagg | ttaacatagc | cagtttactt | aatttttttt | tttttttttt | 13020 |
| tttttttttt | agttagcccc | agactaccta | aagagtttta | aagaatcagg | ttcctgtttt | 13080 |
| ttgacctctt | acttcctctg | tgactcagta | agtctatggt | ggggcctgag | gatgtcataa | 13140 |
| cacaccaggt | ctgttttgac | ttcttaccta | aaattgaata | tacatttatt | ttgactcttg | 13200 |
| taaattaact | ttttctgtaa | aggaccagat | agtatttttag | acttcacagg | ccatatgggtc | 13260 |
| tctgtcatat | ctattcagct | ctgccattgt | agcacaaaag | tagccacagg | tgattcatat | 13320 |
| ttatggacaa | tgaaatttga | atttcatcta | atttttaaat | gccacaaaat | gttatttttga | 13380 |
| tttttttcat | ccatttaaaa | atgtgaaaat | tattcaaggc | ttgtgggctg | aggggaaaca | 13440 |
| ggtggcaggt | cggatttggc | ccatgggtca | tagtttgcca | acctctgatt | tagacaaatc | 13500 |
| aaaacagtct | taaaactgac | ttaagctcag | cgcagtggct | catgcttgta | atcccatcac | 13560 |
| tttgggaggc | cgaggcaggt | gaatcacctg | aggtcaggag | tttgagacca | gcctggccaa | 13620 |
| catggtgaaa | ccctgtctct | actaaaaata | caaaacttcg | tcaggcgtgg | tagtggatgc | 13680 |
| ctgtagtccc | agctacttgg | gaggctgatg | caggagaatc | gcttgaaccc | gggtggtgga | 13740 |
| ggttgcagcg | agctgagatc | tcaccactgc | actccagcct | gcgcaacaga | gcgagactcc | 13800 |
| atctcaaaaa | aaataaaaaa | taaaaaacca | ctaatttata | tcacaatgaa | cattgattct | 13860 |
| acttcagaaa | ccaggtttga | gattccttta | gaaatcaaac | tcagtttgcc | gggcgcgctg | 13920 |
| gctcacgcct | gtaatcccag | cactttggta | ggccgaggcg | ggctgatcat | ctgaggttgg | 13980 |
| gagtccgaga | ccagcctaac | caacatggag | aaaccccgct | tctactaaaa | atacaaaatt | 14040 |
| agccgggcat | ggtggcgcat | acctgcaatc | ccagctactc | aggaggctga | ggcaggagaa | 14100 |
| tcactttaac | ccgggaggcg | gaggttgccg | tgagccgaga | ttgtgccatt | gcacttcagc | 14160 |

sequenece listing.TXT

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-------|
| ctgggcaaca | agagcgaaac | tcagtctcaa | aaaaaaaaaa | aaacaagaaa | gaaatcaaac | 14220 |
| tcagttttgc | caggttacag | tggctcatgc | ctaaagtaat | ctcagcactt | taggaggcca | 14280 |
| aggtagggagg | atcatttgag | cccaggaatt | caagaccagc | ctgggcaaca | tagggagact | 14340 |
| tcacctctat | taaaaaaaaa | aaattagccg | ggcatagtgg | catgtgcctt | atagtcccag | 14400 |
| ctacttggga | ggctgagggt | ggaggatcac | ttgagcccaa | gagggtggagg | ctgcagtaag | 14460 |
| ccatgctcat | aatgctgcac | tccaacctgg | gtgacagtat | gtgatcctct | ctcaaaaaaa | 14520 |
| agaaatcaaa | ctcaatttta | cttgcaattc | agtgggatta | tttattttaac | catttttttt | 14580 |
| tcacataaaa | tattgtggaa | ctccagttta | tacacgtaga | ctgtctacct | cattatttcag | 14640 |
| actctaattt | ttctcatttt | ttctggaaat | tccttcttga | tacactcttt | atttctatta | 14700 |
| gacatggagt | atttcatttg | ggaagttaat | gttcttccag | ttatttctgc | cgctgaagct | 14760 |
| gacttagctg | tctaccttcc | tgttttttaa | cagcaggaga | gatgagaaga | ggcttcagac | 14820 |
| ctaacttcag | tactagtctt | tagccaagat | cttagatgaa | taaaattaca | cactttttact | 14880 |
| tacctctaac | tgatatttaa | cattctcttc | aattgtgaag | ataggcaaca | aataatagta | 14940 |
| gtatcttagt | ctgtttgggt | actataacaa | aataccatca | actgagaagc | ttataaacaa | 15000 |
| cagaacttta | tttctcacac | tcctgtaggc | tgggaagtcc | agatcaaggt | cctggcaggt | 15060 |
| ttggtagtgcg | gtgagggctc | actttcctgt | agatggcacc | gtactgtgtc | ctcacatggt | 15120 |
| ggaaggggca | agtctgcttt | ctggggcctt | ctgtataagg | acactacctc | ccaaaaggcc | 15180 |
| tcacctacaa | ataatatcac | attaaggggt | gggattttta | cataagagtt | ttaggagagac | 15240 |
| ataaacattc | agaccatagc | aagtagtatc | aacaaaaaca | aaagtatggt | tatatcagag | 15300 |
| atacctcttt | tatactctac | tttgaaatta | caatattaga | cttgttgcta | tatattaatg | 15360 |
| cattaataaa | gaagcacata | atcgtgtatc | acaatttggt | cggccgcagt | ggctcacgcc | 15420 |
| tgtaatccca | gcactttcgg | aggccaaggc | aggcggtatc | caaggtcagg | agatcaagac | 15480 |
| catcctggcc | aacatggtga | aaccccgctt | gtactaaaaa | tataaaaatt | aggtgggcgt | 15540 |
| ggtgatgccc | acccgtagtc | ccggctactt | gggaggctga | ggcaggagaa | ttgcttgaac | 15600 |
| ccaggaggcg | ggggttgcag | tgagctgaga | tcggaccaca | gcactccagc | ctggcaacag | 15660 |
| agcaagactc | cggctcaaaa | aaaaaaagta | tatcacaatt | ttatttctta | atgtttttata | 15720 |
| agtgttttga | tataactgag | tttcttttga | gacctgtata | ttttatttca | tacatttttaa | 15780 |
| aacattgtga | aaggatttat | aaggattcac | tactctgcca | aggtgtctgc | tgcaaaaaaa | 15840 |
| aggttaagaa | cccatgcctg | gggtatgatt | catccctcta | cccacccctt | atctactctc | 15900 |
| ccctactttg | tcttccccct | aagttttctc | ctctccccct | ctgttttttt | ttttctgctt | 15960 |
| aaaggctaga | tcttttccct | taggctctga | tccttccctt | tgtaagataa | tttaccatt | 16020 |
| gatcgtagtc | ttcagtttgt | gaaactttgg | gccacatcaa | atataaagat | aactgtgaga | 16080 |
| tcttgctggt | tggctcatgc | ctgtaattcc | agcactttgg | gaggccaagg | taggagcatc | 16140 |
| gcttgagccc | aggagttaa | gaccagcctg | ggcaatatag | tgagacctcg | tctctacata | 16200 |
| aaatttaaaa | attagccaga | tgtgttggca | cacacctgta | gtcccagcta | ctcaggaagc | 16260 |

sequece listing.TXT

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|-------|
| tgaggtagga | ggattgcttg | agcccaggag | gttaaggtta | cattaagctg | tgattgctta | 16320 |
| actgcactcc | agcagcctgg | gtgacagaga | gagacctagt | ctcaggaaaa | caaacaaaca | 16380 |
| agctgtggat | ggtaaggttt | tatatatatt | tatatatatt | atataaaata | ttatatataa | 16440 |
| atatatataa | aaccttacct | attatattat | tatatactat | tataatataa | tattatatat | 16500 |
| tatattatat | actattatat | aataatagta | tataatatta | ttatataata | atataatatt | 16560 |
| atctataata | tataatatat | atTTTTatatt | ttatatatta | tataaatgat | gattttattgt | 16620 |
| gatcagggtt | ataagcaaat | agccctagtt | tcttaacaga | gaaggaagag | gataaatgtg | 16680 |
| tccttgacc | ttcatcctca | ccctctccct | ctcattacct | gcctcttgtg | tccttcccc | 16740 |
| atcccttctt | cttctctcc | accccttca | ttctctagtc | attcattatt | attacagtta | 16800 |
| gttgcttacc | ttttaacatt | agcttcttgg | ccagtttaaat | attgaaaaat | atTTTccatg | 16860 |
| ttccttgtga | agttgggtac | aaagaaatct | catcctgggt | cagtttattt | aagtagtttt | 16920 |
| ctcataagta | aagcaaat | gtcataattc | taatttagca | atattctgta | catttttagtt | 16980 |
| gacaaagaga | tgatgcaaag | aattagagaa | aaatctat | tacaagcaca | agagagagca | 17040 |
| aaagaagcta | cagaagcaaa | agctgcagca | aagcggaag | atcaaaaata | cgcactaagt | 17100 |
| gtcatgatga | aggttaagttg | cagaatgaca | ggcaagtcct | ctaaagagat | aatagtagac | 17160 |
| tatgtgagga | tagtgagttc | cagctgctgg | acttcctcag | cattttcttc | atactttggt | 17220 |
| tagaggactt | actatgttat | atagactgtc | tgctatTTat | atgtgtgttt | TTTTTTTTct | 17280 |
| tgagaccgag | tctcactctg | tcgcccaggc | tggagtgcag | tgcggtgatc | tgggctcact | 17340 |
| gcaagctcca | cttcccggt | tcatgccatt | ctcctgcctc | agcctcctga | gtagctggga | 17400 |
| ctacaggcac | ctgccaccat | gccaggctaa | TTTTTTgtg | TTTTtagtag | agacagggtt | 17460 |
| tcaccgtgtt | agccgggatg | gtctcgatct | cctgacctcg | tgatctgccc | gtctcggcct | 17520 |
| cccaaagtgc | tgggattaga | ggcgtgagcc | accgtgccc | gcccatgttt | gttcttgaaa | 17580 |
| tctgaatgaa | agtcaaaggt | gtaaaagttg | gacagttgtt | tcagggagag | ggttctat | 17640 |
| ctaggggagt | aaaaataaag | tttcaatggt | gcaagtgttt | tacttctttt | taaatcttgg | 17700 |
| aataacagat | atgattTTaa | aacagaagca | tattTaaac | attattgtca | aatTTTTtta | 17760 |
| actgttaagg | gtTTtaagtg | aaagtTTTaa | tcagcaatat | atTTTTtgag | aaacaattca | 17820 |
| cattccatat | aatttacc | tttaaagtgt | acaattTaat | agTTTTtagt | acattcagag | 17880 |
| ttgtgtaacc | attactacag | tcaattTTtag | aacattTTca | tcacccccca | aaaagcacca | 17940 |
| ataccctaa | gcagccactc | cccatttccc | ctaacactta | gtcctaggca | actgcttatc | 18000 |
| tattttctgt | ctcaatagat | atacctat | tgagtaattt | ttacaaaaaa | attcttatct | 18060 |
| caggccaagc | gcagtggctc | atgcctgtaa | tcccagcact | tttgggaggc | cgaggcgggc | 18120 |
| ggatcatgag | gtcagtagtt | caacaccagc | ctggccaaca | cagtgaacc | ctgtctctac | 18180 |
| taaaaataca | aaaatcagcc | gcgcgtgggtg | gtgggcacct | gtaatcccag | ctactcggt | 18240 |
| ggctgaggca | ggaaaatcgc | ttgaaccag | gaggtggagg | ttgcagtgag | cggagattgc | 18300 |

sequenece listing.TXT

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| gccactgcac | tccagcctgg | gcgacagagt | gagacgccgt | ctcaaaaaaa | aaaaaaaaac | 18360 |
| ttcttatctc | gaattcccat | tttgacatgt | tgcagtgact | aaggaatcta | taatacgcac | 18420 |
| tatttaagat | ttttgtggac | ccatgactgt | tttttgatt | ttcataacta | gcattgtttt | 18480 |
| ctattatcaa | cagtttatga | ttccaaagat | ttgtccactt | tttttatcac | ttccacttaa | 18540 |
| cttttttttt | tttttttttt | gaaatgggtgt | ctggctctgt | tgcccagggt | ggagtgcagt | 18600 |
| ggtgagatct | cagctcactg | caacctctgc | cactcggggt | caagagattc | tcatgcctca | 18660 |
| gtctcctgag | tagctgggac | tacagatgtg | caccaccacg | cctggctaata | tttttatatt | 18720 |
| tttagtagag | acagggcttc | accatattgg | ccagggttgg | gtcgagctcc | tgacctcaag | 18780 |
| tgattcaccc | gccttggcct | cccaaagtgt | tgggattaca | ggcatgagtc | accgcactga | 18840 |
| gccatatact | ttgtctttta | cttaataatt | gaactgggtca | gctgggtcaaa | gattcctgcc | 18900 |
| tttagcatac | ttaattccat | cttttcttta | ttgtatgatc | acagctgttg | gccttttgat | 18960 |
| tttatcattt | tcatgaattt | aaaaaaatta | atatagaatt | tgtggcaata | gatattcact | 19020 |
| gaaataataa | aacagttaaa | taatggcaca | cttactgctg | tattgggatg | tcaaaacaga | 19080 |
| acagttgacc | agcaggaagc | accactatgt | tgtaccttga | aggttttgtt | tttgtttttt | 19140 |
| ttttttgaga | tggagtcttg | cttagtcgcc | caggctggag | tgacgcggcg | caatctcagc | 19200 |
| tcactgcaag | ctctgcatcc | tgggttcaca | ccattcttct | gcctcagcct | cccgaatagg | 19260 |
| tgggactaca | ggtgcctgcc | actacgcctg | gctaattttt | ttgtattttt | agtagagaca | 19320 |
| gggtttcact | gtgttagcca | ggatggtctc | gctctcctaa | cctcgtgatc | tgcccgtctt | 19380 |
| ggcttcccga | agtgtcggga | ttacaggtgt | gagctgccgc | accagctga | agttttcaat | 19440 |
| ttactaatgt | atgaaagctt | gactttggta | ttgggaaagg | tgatttagag | gaattaatat | 19500 |
| ataaaatatg | aagatacggg | ttatattaag | aggacagaac | ctacaaaagc | cagtatcctg | 19560 |
| ttccacaaat | tgtctgtttt | ctctcttccc | tcagtagtgt | tgagagttag | gagtatgttt | 19620 |
| tgtttcatcc | ttattatagc | cattatcaag | taaattgggt | ctcaaacatt | tgaataaatt | 19680 |
| aatatgaatg | cattactcta | gtactatgta | cccgtagcaa | acgtctactt | tggtgaatta | 19740 |
| gctgaagcta | ttttcactct | gtgcaatcct | agacactggt | aagaaaagaa | ctttgacgat | 19800 |
| ccagtaagag | caaatagtaa | caaaaggcaa | catattgtta | gcttaagtta | gcataaatta | 19860 |
| atttaaaaact | tgaaggacat | ctaccaaaaa | taagtgggtt | ttaagtagta | accttttaaa | 19920 |
| aaataattag | tggggctgtg | tcaattcgct | atactgtgtg | tacaggtatt | attctgcttg | 19980 |
| ggctacccta | acaaaatggt | gtttaacaga | aattttattt | ctcatagatc | aagggtctgg | 20040 |
| agggtctctt | tctgggttaga | ctctctgttt | ttggggcctt | cttgctgcgc | tcttacgcag | 20100 |
| caaaaaaaaa | aaaagaaaaa | gaaaaagatt | ggtatttcat | cctgagagta | tggtcaagga | 20160 |
| atccaaagca | gtattgtttg | tgctgaatcc | tggaatatga | atcacaatta | ggttcctggg | 20220 |
| agaaagagag | ggaaaacctc | attgcagaag | tgcttttaaa | gcccctgctg | tgtcatattt | 20280 |
| gctaattgtac | cattagccaa | atcaagtcac | atagccaagt | ccagatttaa | agattggaaa | 20340 |
| aatagactat | acttcttgga | aagagaggta | taatgggaaa | atgacattac | aatttgata | 20400 |

sequece listing.TXT

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| gtccagaatt | tattccctct | ggtgggttct | tggctctact | gacttcaaga | atgaagccgc | 20520 |
| atacctcatg | gtgtgttaca | gctcttaatg | gtggcgcgctc | cggagttggt | tgttcctctc | 20580 |
| ggtaggttcg | tggctttgct | gagttcagga | attaagctgc | agaccctcac | ggtgactggt | 20640 |
| acagctctta | aaggtggcgc | ggacccgaag | agtgagcagc | agcaagattt | attatgaaga | 20700 |
| gtgaaagaac | aaagcttcca | cagcatggaa | ggggacccga | gccagttgcc | gctgctggct | 20760 |
| ggggtggcca | gcttttattc | ccttatttgt | ccccgtctat | gtcctgcgga | ttgggtccatt | 20820 |
| ttacagagtg | ctgattggct | cattttacag | agtgtctgatt | ggtgcgttta | caattgttaa | 20880 |
| gctaaacaca | gagcactgat | tgggtgcattt | ttccagaatg | ctgattggcg | cgttttacaat | 20940 |
| ccttttagcta | gacacagagc | actgattggg | gcatttttgc | agagtgtctga | ttgggtatggt | 21000 |
| tacaatcctt | tagctagaca | cagagcgctg | attgggtgcat | ttttacagag | tgctgattgg | 21060 |
| tgcgtttaca | atccttttagc | tagacaggaa | aagtctctcca | agtccccact | tgaccagga | 21120 |
| agtccagctg | gcttcacctc | tcactaagat | tttgaaaaat | ttctcaaagg | ttatagagaa | 21180 |
| ctctcttaag | ggattttcca | caaaagtgtg | aaattagttg | agtttgtctt | ttagaaagct | 21240 |
| cgttctggct | aatgagtttg | aagaggttgc | agggaggagg | cagagttttt | gttaagatgg | 21300 |
| agaaattttg | agcatagcta | tgttgaggaa | ggaagccagt | aaagagggaa | agggttaataa | 21360 |
| tacaatgaag | agagaagatt | gatgatggag | cagttttctg | gtgatatggg | gatattttat | 21420 |
| catttttgct | aattaaaaat | aaactttttt | ttttttttga | gacaggggtct | gttgcccagg | 21480 |
| ctggaatgca | aaatggcgca | attacagctc | actacattga | cctcgcagggt | tcgagagatc | 21540 |
| ctcccacctc | agcttcccaa | gtagctagga | ctataggtgt | atgccaccat | gccctgctaa | 21600 |
| tttttttgta | gtttttgtag | agatgggggtc | taactatggt | gcccagcagg | aacaaagaat | 21660 |
| agatatctaa | ggatctggaa | aattcttaag | cacacagata | attaaaggaa | tttttacttt | 21720 |
| gcttggtaaa | gaagcagggt | catctgggca | tgggtggctca | tgcttgtaat | cccagcactt | 21780 |
| tggaaggccg | aggcagggtg | atcacctgaa | gtcaggagtt | caagatcagc | ctgggtcaata | 21840 |
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| gtaatcttag | ctactctgga | ggttgaggca | ggagaatggc | tggaaccag | gaagcggagg | 21960 |
| ttgcagtgag | ctgagatcat | gccattgcac | tccgccttg | gtaacaaaga | gtgaaacttc | 22020 |
| atctccaaaa | aaaaaaaaaa | ccaaccaacc | aaccaaccaa | acaaacagaa | aaacgaggca | 22080 |
| gggtcatcaa | cagaaagggg | gagattgagg | tggaggtata | gggatatgag | gtgattagtg | 22140 |
| gaagcttgga | atactgatgc | cagagtcttc | caaaatgtgc | ttttttttcc | tcttcgctaa | 22200 |
| tcttggtgctg | tactgcctcc | tttttttttt | tttttttttt | gagatggagt | ctcgtctgt | 22260 |
| tgtccaggct | ggagtgcagt | ggcgcagtct | tggctcactg | caagctctgc | ctcctggggt | 22320 |
| catgccattc | tcctgcctaa | gtttcccgag | tagctgcgac | tacaggtgcc | cgccaccacg | 22380 |
| cccatctaata | ttttgtatt | ttttggtaga | gatgggggtt | caccgtgtta | gccaggatgg | 22440 |

sequenece listing.TXT

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| gcgtgagcca | ctgcgcttgg | ccgcctactt | ttcctgtctt | cttcactatt | ttgttctgta | 22560 |
| cattaccac | ttctatcttg | aatTTTTTTT | ttatcatttc | ttgtTTTTgt | tttgtTTTTc | 22620 |
| gcttcaatgg | aactctTTTT | tccaactgat | cttttaaact | ggatagggtca | aatttgaagt | 22680 |
| gcatttttct | gctgtggttt | cttaaagttg | aaaccagaa | accttaatct | ttgaaagagg | 22740 |
| tttgcctgat | catgcagata | aggtatgagt | tgctagtgtg | ctattttaatg | ccataggacc | 22800 |
| tcaaaatgat | ccttatcagt | gaatacacat | gccctgttta | tcatgggcat | gtataactaa | 22860 |
| tgtacaaaaa | gaccacaatg | aactgctttg | ccattttatt | ctattttatg | ataataactt | 22920 |
| tcatgattct | ggcatttaaa | aaatcctccc | atctttcttt | tttctttcat | ctcattcctc | 22980 |
| ttcagtgtat | gtcagacttt | ctcagcagcc | tgtcttccac | ttttacatgt | tttgtatttt | 23040 |
| ctccataaac | ccgttcttag | agctctgtac | ttttgggtatc | tcctgttctg | atgtctttgg | 23100 |
| ccagtgttta | ttcatttatg | tgttattgga | cacttgggtt | gcttccacc | tttggctagt | 23160 |
| gtgaataatg | ctgctgtgaa | catgatgtga | tggttaatac | tgactgtcaa | ctgattggat | 23220 |
| tgaaggatgc | aaagtattga | tcctgggtgt | gtctgcgagg | gtgttgccaa | aggaaattaa | 23280 |
| catttgagtc | agtgggctgg | gaaaggcaga | cccaccctta | atctgggtgg | tcaccattga | 23340 |
| attggctgcc | agcatggcta | gtatataaag | caggcagaaa | aatatgaaaa | gacgagactg | 23400 |
| gcctagcctc | ccagcccaca | tcttttgctc | gtgctgggtg | tttcctgccc | tcgaacatgg | 23460 |
| gacttcaagt | tcttcagttt | tggaacttgg | actggttctc | cttgcttcac | agcttgcagc | 23520 |
| aggcctattg | tgataccttg | tgattgtgtg | agttaatact | taataaaactc | ccctttatat | 23580 |
| atatctatct | atactattag | ttatgtctct | ctaaagaacc | ctgactaata | tacacgagta | 23640 |
| taaaaatata | cctttgaaat | cttgctttca | attgttttgg | gcttgtatct | agaagtggat | 23700 |
| atagcagatc | atatggtaat | ggtaattctg | tttttttttt | tttttttcct | gagacggagt | 23760 |
| ctcactctgt | tgcccaggct | ggagtgcagt | ggtgcgatct | cggctcactg | caagctccgc | 23820 |
| ctcccagggt | caagccattc | tcctgcctca | gcctccccag | tagctgggac | tacaggtgct | 23880 |
| caccaccacg | cctggctaata | tttttttgta | tttttagtag | agacagggtt | tcaccatggt | 23940 |
| agccaggatg | atctcgatct | cctgacctcg | tgattcacct | gtctcagcct | cccaaagtgc | 24000 |
| tgggattaca | ggcatgagcc | accgcgcccc | gcctattttt | aatTTTTTga | ggaattgcca | 24060 |
| tactgtattc | catggcattt | ggaccatttt | atgttttcat | cacagtgtgc | aaggattccg | 24120 |
| gtttctccca | ttctcactaa | cacttgttat | tttggttttt | tgagagtagc | catcctaata | 24180 |
| ggtgtgaagt | ggtatctcat | tgtggttttg | atgtgctctt | cagtgccatt | ttaatttgaa | 24240 |
| ctatatctct | gaaaccact | cattcccttt | tttcctaaat | ctttgagata | ttggtaagta | 24300 |
| taacatttat | tcttgcttgc | tcttttcctc | tcttctccca | ttatttggcc | tatgctttct | 24360 |
| cttaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | agctttattg | gctgggtgtg | 24420 |
| atggctcatg | cctgtaatcc | cagcactttg | ggaggctgag | cagggtggact | gcttgaggtc | 24480 |
| aggaatccga | gaccagcctg | gcccatctct | actaaaaata | caaaaaatta | gccgtgtgtg | 24540 |

sequece listing.TXT

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| cagaagacag | aggttgacgt | gggccaagat | tgtgccactg | tattccagcc | tgggagacag | 24660 |
| agtgagactc | catttcaaaa | acaaaaacaa | accccagctt | tattgagata | taatttatat | 24720 |
| accataaagt | tcattctttt | aaagtgtaga | attcattggt | tcttagtatg | tatacaagtt | 24780 |
| attcagccat | caccactatg | taattctgga | acatttcata | accataaaaa | gagacctatt | 24840 |
| ggccaggcat | ggtggctcac | acctgtaatc | ccagcacttt | gggaggctga | ggggggcgga | 24900 |
| tcacaaggtc | aagagtttga | gaccagcctg | gccaatatgg | tgaattccca | tcactattaa | 24960 |
| aaatacaaaa | attagccagg | tgtggtggtg | tgcactctga | gtcccagcta | ctcggaaggc | 25020 |
| tgaggcagga | gaattgcttg | aacctgggag | gcagagggtg | cattgagccg | agattgagcc | 25080 |
| actgcactac | agcctaagcg | acagagcaaa | actctgtctc | aaaataaata | aataaataaa | 25140 |
| taaataaaga | gccctatfff | cattagcagt | cactccctac | ttttccctcc | accatagccc | 25200 |
| ctggaggaga | cagaatctac | tgtctgtttc | tatagatttg | tttactctag | acatttcaca | 25260 |
| tacagtgtgt | ggtcttttga | tgtgatgccc | atcagtcttt | atgggaggct | ttctttcact | 25320 |
| tagcaaaatg | tatatagggc | ttatacatat | tgtagcatgt | ataagttfff | cattcctfff | 25380 |
| tatggatgaa | taatatggca | tagtatggat | ggcaccacat | tttgtttatc | cattcatcag | 25440 |
| ttggtgaaaa | tttaggttct | cttcaccttt | tggctattac | aaatagtact | actatgacca | 25500 |
| ttcatgtact | tctagtatff | aagtatctgt | tttttgtttt | gttttgtttt | gtttttgaga | 25560 |
| tggaatcttg | ctctgttgcc | caggctggag | tgcaatggca | tgatctcagc | tcactgcaac | 25620 |
| ctctccttcc | tgggttcaag | tgattctcct | gcctcagcct | cctgagtagc | tgggattaca | 25680 |
| ggcaagcacc | accatgcccc | gctcgttfff | tgtatfff | ggtagagagg | gggttttgcc | 25740 |
| atgttagcca | ggctggtctc | taactcttga | cctcaggtga | tccaccacc | tcggcctccc | 25800 |
| aaagtgtctga | gattgcatgc | atgagccacc | acgcctggcc | ttgagtgtct | gtttttaatt | 25860 |
| ctttcatgta | tatacttagg | aatagaattg | ctgggtcatt | tgtaattctg | tttagctfff | 25920 |
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| caaacaaagc | aataaaaaga | caaaacaacg | aaagtgcagg | tttactgaag | caaaagtaca | 26160 |
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| tcaggtttgt | actaaactaa | aagaatttgg | tagcattcct | gggtaccggt | tagaggcttc | 26280 |
| ccattggttg | caccctacac | aatgaaggc | ttggcccat | actaatcaga | ggctgaagtg | 26340 |
| aagtcttggc | ccataactaa | ttagcaatag | gggagagagg | gggttttgta | gagggagggg | 26400 |
| cctctggccc | ttggcatgga | gaggtggggg | ttttcttttg | gcccatttcc | aataagccag | 26460 |
| ctgctagttg | gcctcaggct | ccctgttcca | gaccctgttc | tgctcattt | ccccctgaga | 26520 |
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sequenece listing.TXT

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| ctctgtctag | tggagagagg | gtgactttctt | gaaggctagg | gctggcatcg | tcacctggaa | 26700 |
| ctggctagaa | gccctgctgc | atgatcattt | gaagcttaat | gttctctagg | tgagaagaaa | 26760 |
| taaatctggt | tacatgatta | aacaaaaatg | gtccaaaaat | caatgtaagt | acaagtatta | 26820 |
| ataatgtgct | ggctagggga | aggagccatg | aaaccagct | tagtatcctt | gaccaggggc | 26880 |
| cccatgactt | ggacaactgt | tgtcatattt | tagaggcctg | gtcagcta | tttggggcag | 26940 |
| catcccttac | taatcctgat | tggttgat | gaaaacagtg | ctttccctct | aggaaaagat | 27000 |
| ataagccact | tttttcagca | gttaggagat | ccagtccttg | tattagtcca | ttctcacact | 27060 |
| gctaataag | acatacccaa | gatcgggtaa | tttataaagg | aaagagtttt | cattgagtca | 27120 |
| cagttccaca | tggctaagga | ggcctcagga | aactaccaat | catggcagaa | gacacctctt | 27180 |
| aacaggggtg | caggagagag | aatgagcacc | agcaggagaa | atgccataaa | accttataaa | 27240 |
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| gaaaagaatt | tagcgatatg | tctcctactt | gcatgtccat | ttataggctc | tctgcaagaa | 28620 |
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sequece listing.TXT

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| tgaaacacac | atgtttttaca | atcagttttgt | acagttaaca | caattatcac | agtgggtcctg | 28800 |
| aggtagacata | catcctcagc | ttacgaagat | aacaggatta | agagattaaa | gtaaagacag | 28860 |
| gcataaatta | taaaagtatt | atttgggaac | tgataaatgt | ccatattaaa | atgaaatctc | 28920 |
| ccaatttatg | ttcctctgct | gcggtccag | ccagtcctc | cattcgggggt | ccctgacttc | 28980 |
| ccgcaacact | tgggaagtac | tctgagttgc | ccaagtgggt | ttgttctctc | agtttaggtg | 29040 |
| gttatgctta | gtgtctacca | gccaacaccc | agagctat | ttgtactggg | ggactaaaag | 29100 |
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| tgtgtgcatc | gatattgggc | ccctaattgg | tttttgaggg | gatgcaactc | cagaaagggt | 29460 |
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| cctataacag | tcattgtcct | agtggagggc | tttctgcat | aagcagtaag | tacagagtaa | 30060 |
| cttgcccctg | aatcaaaaag | aaactgaatt | tgtgtacccg | ttgtgtccag | agttactcag | 30120 |
| ggatcctcag | tagtaatgat | gatgttcctg | gacaggggca | gtgaggaagg | ccctgggccc | 30180 |
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| ccaggtaatt | ttttaatttt | tttttttttt | cagtagagac | aggttttcac | catgttggcc | 30360 |
| agatggatct | caaattcctg | accttaaattg | atccacctgc | ctcagcctcc | tgaagtgtctg | 30420 |
| ggatttatag | gtgtgagctg | ccacaccag | ctaggagtga | cagcttctaa | gctctttaca | 30480 |
| tgtcaaagcc | taaactgatg | ttcctatgtt | aatttttttac | ctatatagat | aaaaaacatg | 30540 |
| cacatatatg | tgtatatatg | tatatatata | tatacacaca | cacacgcata | catacatata | 30600 |
| tacttacata | tatttttaaa | tatttttaaa | atttattttt | cagtgggtgt | tctgtgttcc | 30660 |
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sequece listing.TXT

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| aaaatcatta | tttcttaaaa | aatcttaggt | ttttaataa | ataaagagta | gaaagcaaaa | 30900 |
| atatatatat | tgtcttttta | aaaagtttat | tttctaattg | tggtaaaata | taactaacat | 30960 |
| acaacttacc | atctttaagt | atacagttcc | atggcattaa | gtatattgac | aaccatcact | 31020 |
| actaaccatc | tccagaactc | ttttcttttt | ttattttttt | tttgagttgg | agtttcattc | 31080 |
| tgttgcccag | gctggagtac | agtggcgtga | tctcagctca | ctgcaacctc | tgctctctgg | 31140 |
| gttcaagtga | ttctcctgcc | tcagcctcct | gagtagctgg | gattacaggc | gtatgccacc | 31200 |
| acgcccggct | aattttttgt | attttttagta | gagacggggg | ttcaccatgt | tggccaggct | 31260 |
| ggtctttaac | tcctgacctc | aggtgatcca | ccgccttgg | cctcccaaag | ttcggggatt | 31320 |
| acaggcgtga | gccaccatgc | ctggccctcc | agaactcatt | tcgtcttgca | caattaaaac | 31380 |
| tctgtacca | ttaaacaata | actctctatt | ctctatcctc | ccagcccttg | acagccacca | 31440 |
| ttctactttt | tctatgaatt | tgactatttt | atgtaaaaaa | aatgactta | ttttacttca | 31500 |
| tgtaagtgga | attatacaat | atgtgtcctt | ttgtgactgt | tttatatttt | ttagcatact | 31560 |
| ttgtcttcaa | ggttcacctc | tgttttagct | tgtgtcagaa | tttcctttct | ttttaaggct | 31620 |
| gaatcatgtt | ctattaaaac | gtatagaaca | catttaaaaa | aatctgtttg | tattgtcttt | 31680 |
| tacgcttacc | cacatattta | ccattttctc | tactcttcat | tctttcttgt | aggtatgaat | 31740 |
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| attgtacagg | ttggagtgc | gtggtacatt | catagctcac | tgtaacttca | aactcctggt | 31860 |
| ctcaagcagt | cttcctgccc | cagcctcctg | agtagctggg | actacacgca | catgccacca | 31920 |
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| cctccccatg | ccctgccctt | ttttaaaaaa | gtgtatctta | tagagcaggt | ctattagcaa | 32100 |
| catactccct | cagttttcat | ttgtcttgga | aggatatttg | ctttcacttg | tgaagaatag | 32160 |
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| aaccaagcct | agcactttta | tccaccaaag | ctacaggttt | tcactgccct | acccggaaat | 32460 |
| gagcccaccc | tttttagcaa | caaactgcta | ggttcttttt | ggtagtttca | tggttggtatg | 32520 |
| ggttgagcat | ttatgatcaa | aaaatacaaa | atctgaaatg | ctccaaaatc | tgtaactttt | 32580 |
| gagcaccaac | acaatgctca | aaggaagtgt | tactggagc | attttggtt | tcagattttt | 32640 |
| ggagtaagga | tgctcagcca | gtgtgtattc | tgcaagtatt | ccaaaatctg | aaaaaaatcc | 32700 |
| aaaatctgaa | acatttctag | ttccaagcat | tttggacaag | ggatattcag | ccagtaaaat | 32760 |
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sequece listing.TXT

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| ttttagtctt | tcttttggtt | aatttccagt | cccctgaaat | ggttgttttt | gataatttta | 32940 |
| tccagtttta | tccttaatat | ttgtggaggg | gaattgccaa | cctcttcatg | ttgccacaaa | 33000 |
| atctgcatgt | tgtctttgca | gatgaatttt | atattttactt | atcaagtttc | ctaagaagtc | 33060 |
| ctcttggtat | tttgattgaa | tttacattga | ctttgtaaat | ttgcagcgca | tcaacatact | 33120 |
| tataatattg | agatttccct | ccaggaacat | ggcattttatc | tccattttatt | tggatatact | 33180 |
| ttacatctct | cagcaaaatt | atttaacaca | catatatgac | ttgcttatat | attttttggt | 33240 |
| tgtttgtttt | gtgtttgaga | cgaagtctgt | ctctgtatcc | caggctggcg | tgcagtggcg | 33300 |
| cgatcttggc | tactgcaac | ctccacttcc | caggttcaag | tgattctcct | tcctcagcct | 33360 |
| ccagagtagc | tggtgattacg | gcgtgcgcca | ctgcacctgg | ctaacttttt | gtatttttag | 33420 |
| tagagacgag | gtttcaccat | gttggccagg | ctggctctga | actcccaacc | tcaggtaatc | 33480 |
| cgcccacctc | aacctcccaa | agtgctagga | ttacaggcat | gagccaccgc | ccctggcctt | 33540 |
| atgacttgct | tatatatttg | taagcttatt | catttatggt | tttctggtga | ttgctgatga | 33600 |
| aattaacgtt | tccattgtag | tttctaatta | tttattgcca | gtttgtagga | aagtaagttt | 33660 |
| gtttttataa | gtttgtataa | gttgatcttt | ttttttcttt | tgagatggag | cctcacgctg | 33720 |
| tcgcccaggc | tggtgtgcag | tggcataatc | ttggctcact | gcaacctccg | tcttctgggt | 33780 |
| tcacgcgatt | cttctgcctc | agcctcctga | gtagctggga | ctacaggcat | gcaccaccac | 33840 |
| gcctggctaa | tttttatatt | tttagtagag | acaaggtttc | aacatgttgg | ccaggctgat | 33900 |
| cttgaactcc | ttacctcatg | atctgcccac | ctcggcctcc | caaagtgttg | agattatagg | 33960 |
| cgtgagccat | cgcgcccagc | tagttgattt | tatatgtgac | tgcttctgctg | aactttacttt | 34020 |
| tggtttgtca | gtttattatt | ttggttattt | taagtagtgt | actattattt | gcaaattgatg | 34080 |
| caattctatc | tccttgtaat | ctatatattg | atcttcttatt | tttaaaagtt | tatcatttag | 34140 |
| gttctgacct | ctaggaaaat | agtaaaacat | taggtatact | tgcttagtg | atcttctgctg | 34200 |
| aaatatttct | aatatttctt | ttatttttta | tttttatttt | tttgagacgg | agtcttgctc | 34260 |
| tgtgaccag | gctggagtgt | agtggcgtga | tctaggctca | ctgcaacctc | cacctccag | 34320 |
| gttcaagaga | ttctcctgcc | tcagcttccc | gagtagctgg | gactacagtt | gtgtgccacc | 34380 |
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| acaggtgtga | gccactgcgc | ccggctatct | ctaataatttc | gtcatgaagt | ataacatagt | 34560 |
| cttggtcctt | ctatccagct | tataaatttt | tatttcttat | ttttattccc | aatatcaact | 34620 |
| gacatttttg | catacactga | catcataatg | cttttctcta | ttgatttcct | aataccttaa | 34680 |
| gtaagaaaga | ccctatttga | tcaaggtgta | ttataatttt | aatattttcc | taggttaagt | 34740 |
| tacccttatt | tgattaaggt | gtattataat | tttaatatatt | tcctagggtta | agttaccctt | 34800 |
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sequece listing.TXT

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| atacacacat | atatatacac | atatatatac | acatatatat | acacatatatat | acacatatatat | 34980 |
| atacacacac | atatatatat | atacacacac | acatatatat | atatatatatat | atatatTTTT | 35040 |
| TTTTTTtagg | TTTTTTTTTT | gtttgttttg | aggTggcctc | tcaCtctgtt | accCaggctg | 35100 |
| gaatgcagtg | gcgcagtctc | ggctcactgc | aacCtctgcc | tCttgggttt | aagcgattct | 35160 |
| catgcctcag | cctcccgaat | agctgggatt | acaggTgtgc | gctaccacac | ctagctaatt | 35220 |
| tttgtatttt | tagtagagat | gggttatcac | cattttggcc | aggctggTct | ctaactcctg | 35280 |
| acttcaagta | atttgcctga | ctcggttcc | caaagtgttg | ggtttacagg | cgtgagcctc | 35340 |
| catgccgggc | tgagtttgct | aatgttttat | ttacaatttt | tgcatgtaat | tcacaagtgg | 35400 |
| gattggctta | taaagaacaa | tgCcttgTtg | accagacatt | cattctagat | taaaagaatt | 35460 |
| atacatttcc | tcttcttcaa | aaatttagtg | taggaactat | tcattattct | cgtattagtt | 35520 |
| ttatttgctg | tctgcattaa | actaataacc | tgtagtaaAt | ggcatccttt | tttgaacagt | 35580 |
| acaaacacct | aaaacccaat | ttgtttatTT | tatttttttt | gagaagtctc | actgtgtcac | 35640 |
| ccaggctaga | gtgcagtggg | gcgatcttgg | ctactgtaa | cctctgcctc | cgagattcaa | 35700 |
| gtgattctcc | tgCctcagcc | tcccaagtag | ctgggattac | aggTgtatgc | taccacaccc | 35760 |
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| aactcctgac | ctcaagtgat | caacctgcct | gggcctccca | aagtgctggg | atttcaggca | 35880 |
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| tatattagat | gatttttatt | taaaatatct | ttaagagctg | ggcacggtgg | ctcacgcctg | 36120 |
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| cagcctggcc | aacatgatga | aaccctgtct | ctactaaaaa | tacaaaaatt | agacgggcat | 36240 |
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sequece listing.TXT

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| gagcccagga | gctcaagacc | agcctgggca | acatagatag | tgagaccctg | actctaaaaa | 37200 |
| caacaacaac | aaaattagcc | attcgtgggt | ctgcgggcct | gtggtcccaa | ctacttgaga | 37260 |
| ggctgaggtg | agaggatcac | atgagcctag | gaagtggaag | ctacagtgag | ctaaggttgt | 37320 |
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| ttctttcttt | ctttcttttt | tttttgagag | gagcctcgct | cttgtccccc | aggtttgagt | 38940 |
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sequenece listing.TXT

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| gtgtgtgtgt | agatthttgag | agaagtgggt | taactcctag | aataataaat | ttctattatt | 40740 |
| ttttctacca | agcccttagg | tatcatctaa | ttgaatgcct | gcccacattt | tacatataag | 40800 |
| taaactgagg | ttggagaaag | tgattgccta | agaccataca | gctaattggta | gatctgggac | 40860 |
| taaaatctth | gttccatgac | tccaacacca | atggthttttc | tcctgaatca | tttaccttht | 40920 |
| ccatthtaat | tcataattca | ctactacctt | ttgttacaaa | tacaattggca | agagthttaga | 40980 |
| ggtatgaata | actaattatt | gtaatgaatt | tctcatthta | ataaatgttg | ctthttatgta | 41040 |
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sequece listing.TXT

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| tatcaaagaa | aagctgagga | gcaaaaaaaaa | attcagagag | aagagaaatt | atgtcaaaaa | 41220 |
| gaaaagcaaa | ttaaagaaga | aagaaaaaaaa | ataaaatata | agagtcttac | tagaaatttg | 41280 |
| gcatctagaa | atcttgctcc | aaaaggtaaa | atgattaaga | atttcttgag | tagtgagtcc | 41340 |
| tgttggtgaa | gtatatatga | cgcttttctt | tttttgtaaa | tctattcaca | gcattaggtt | 41400 |
| actgttttgg | cacattgaga | ataagcaatt | cagtacaaag | actaaagtaa | agacatttct | 41460 |
| tctttcgggg | ataatgaagt | tttctaataa | aatgagcaag | gattcgttca | aggattcgaa | 41520 |
| aagaagagtg | tcttctttgc | ttgtgtgctt | tcttttgaaa | tttaciaaaga | tgttgttaaa | 41580 |
| taagtgttta | actcaggccc | aaaaagactt | ggagtggact | agcaatgtca | gaagcattca | 41640 |
| tttattccat | tagagataag | aaactaggaa | tttcattaaa | agaccttttc | ctcacatcac | 41700 |
| ttaggaaaat | gagtactata | agcagactta | ctctacagca | aataaagatt | gcttctagct | 41760 |
| tttaatcttg | gtgtattcaa | aaacagataa | attaatataa | tttttttttt | tgagacaagg | 41820 |
| tctggcccta | tcgcccaggc | tggagtgcaa | tggtgtgata | tgagctcact | gcagcctctg | 41880 |
| cctccccagc | tcaagccatc | ctgccttagc | ctcccaagta | gctgggacta | caggcatgtg | 41940 |
| cctcaatgtc | cagctaattg | ttttttgtat | tttttgtaga | gacgagggtt | tgccatgttg | 42000 |
| cccaggctgg | tcttgaactc | gtgagctcaa | gcaatctgcc | tgcttgggcc | tcccaaagtg | 42060 |
| ctgagattgt | gtgcatgagc | caccatgtcc | agctgataca | aatataattc | agtttttgta | 42120 |
| tgtgtgtgtt | tttaaaatta | ttatttcagt | agttttgggg | aaacagggtg | tgtttggtta | 42180 |
| catgtataag | ttcttttagt | gtgatttctg | agattttggt | ggacccatca | accaagcagt | 42240 |
| gtacactgca | ccaatgtgt | agtcttttat | ccctcacccc | tgacccttc | ccccctagtc | 42300 |
| cccaggccca | tatcattctt | atgccttggc | atcctcatag | ctcagctccc | atttatgagt | 42360 |
| gagaacatgg | gccaggagca | gtggctcatg | cctgtaatcc | taacactttg | ggaggacaag | 42420 |
| gcgggcagat | catctgaggt | tgggagttcg | agaccagtct | gaccaatatg | gagaaacccc | 42480 |
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| agatcgtgcc | attgcattcc | agcctgggca | acaagagcaa | aactctgtct | caaaaaaaaa | 42660 |
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| ataatcgtct | ccaactccat | ccaggttgcc | gagaatgcca | ttattttatt | cctttttatg | 42780 |
| gctgagtagc | attccatgat | tgtatgtgtg | tctgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | 42840 |
| tatatataca | ccatattttt | tttatcttct | cattagttga | taggcattta | ggctagttct | 42900 |
| atatttttgc | aattgcaatt | gtgctgctat | aaacatgagt | gtgcaagtgt | ctaatgactt | 42960 |
| ctttttctct | agatagatac | ccagtagggg | gattgctgga | tcaaattggcg | gttctacttt | 43020 |
| tcgttcttta | aggcatctat | ctccacactg | tcttccatag | tagttgtact | agttttacatt | 43080 |
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sequece listing.TXT

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| tttgcat | cctaataatt | agcgggtgtg | agcatttttt | catgtttgtt | ggacatttgt | 43260 |
| ttgtttgtt | atttattttg | agatggaatt | tcgctcttgt | tgcccaggct | ggagtgcatt | 43320 |
| ggcacgatct | cggctcacca | caacctctgc | ctcccagggt | caagcgattc | tcctgcttca | 43380 |
| gcctcccgag | tagctaggat | tacaggcatg | taccaccatg | cctggcta | ttagagatgg | 43440 |
| ggtttctcca | tggtggtcag | gctgggtctg | aactcttgac | ctcagggtgat | ccgcctgcct | 43500 |
| cagcctcgaa | aagtgatggg | attacaggca | tgagccacca | cacctggcgg | gacatttcta | 43560 |
| tatcttcttt | tgagaattgt | ctattcatgt | ccttagccca | ctttttgatg | ggattgtttg | 43620 |
| ttttgttctt | gctgatttgt | ttgagttccc | tgtacattgt | ggatattagt | ccttcgtcag | 43680 |
| atgcatagtt | tgtgaagatt | ttcttccatt | ctgtgggttg | tctgtttact | gtgctgatta | 43740 |
| tttcttttgc | tgtgcagaag | cttttttagtt | taattaagtc | ccatctat | atctttgttt | 43800 |
| ttgtttcatt | tgcttttggg | ttcttggcca | tcaagtcttt | gcctaagcca | gtgttagaag | 43860 |
| gggttttcca | gtgttatctt | ctagaatttt | tatgatttca | ggctttagac | ttaagtcttt | 43920 |
| gatccatctt | gagttaattt | ttgtgttagg | ggagagatga | ggatccagtt | tcatacccct | 43980 |
| acatgtgggt | tgccaattat | cccagcacca | tttgttgaat | aggttgtcct | ttccccactt | 44040 |
| tatggttttg | tttgctttgt | caaagattgg | ttggctgtat | ttgactttat | gtctgggttc | 44100 |
| tctattctgt | tccattggcc | tatgtgcctg | ttttataacc | agtactatac | tgttttggta | 44160 |
| actgtggcct | tgtagtatag | tttgaagtca | ggtaatatga | tcccctcaga | tttgttcttt | 44220 |
| ttgcttagtc | ttgctttggc | tatatgggct | ctttttttgt | tctatatgaa | ttttaggatt | 44280 |
| gttttttcta | gttctgtgaa | gaatgatgat | gatattttga | tgggaattgc | actgaatttg | 44340 |
| tagattgctt | ttggcagtat | ggtcattttc | aaaatactga | ttctacccat | ctgtgagcat | 44400 |
| gggatgtatt | tccatttgtt | tgtgtcatct | atgatttctt | tcagcagtg | tttgtagttt | 44460 |
| tccttgtgag | atctttcacc | tcttttagtta | ggatatattc | taagtatttt | ggttttttgt | 44520 |
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| cagcctgggtc | cttgttgggtg | tatagtagtg | ctactgattt | gtgtgcattg | attttgtatt | 44640 |
| ctgaaacttt | acttgaattc | atatatcaga | tctaggagct | ttttggatga | atcttttagga | 44700 |
| ttttctaggt | atacgatcat | atcattggcc | aacaatgaca | acttgacttc | ctccttactg | 44760 |
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| ctgttaaata | gtgttgggtga | aagtggacat | ccttgtcttg | ttccagttct | caggggaaac | 44880 |
| actttcaact | tttcaactgtt | tattataata | ttggccatgg | gtttgtcaaa | gatggctttt | 44940 |
| attaccttaa | ggatgttccc | ttctgtgccc | attttgctga | gggttttagt | cataaaggga | 45000 |
| tgctggattt | tgtcaaatgc | tttgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | 45060 |
| tgagacagag | tctcaactgtg | ttccttaggc | tggagtgcag | tggcatgatc | ttggctcact | 45120 |
| gcaacctctg | cctcccaaat | tcaagcagtt | ctcctgcctc | aacctcccca | gtatctggga | 45180 |
| ttacaggtgt | gcaccaccac | acctagctaa | ctttttgtat | tttttagtag | agacagggtt | 45240 |

sequece listing.TXT

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| cttcccgaag | tgctgggatt | acaggcatga | gccaccacac | tcggcctcaa | atgctttttc | 45360 |
| tgcatattt | gagatgattg | tatgattttt | gttttgactt | ctgtttatgt | ggtgtattat | 45420 |
| atttattgat | tttttggtg | tgtatgttaa | accagccctg | catccctggt | atgaaacca | 45480 |
| cttaattatg | gtgtattacc | tttttgatat | gctgttgcat | ttggtttagct | agtatttggt | 45540 |
| tgaggagtgt | tacatctgtg | ttcatcagg | atattgttct | gtagttttct | ttttttttt | 45600 |
| tttgttatgt | cctttcctgg | ttttggtatt | agggtagtag | tggtgttgta | gaatgattta | 45660 |
| gggaggattt | cctccttatc | ttttgaaata | gttttaatag | gattggtacc | agttctctta | 45720 |
| gaatgtctgt | tagaattcag | ctgttgggct | gggcacatgg | ctcatacctg | taatcccagc | 45780 |
| ctttgagagg | ccaaggcagg | caatctcctg | aggtcaggag | ttcaagacca | gcctgcccac | 45840 |
| cgtggtgaaa | cctcatctaa | ctaaaaatac | aaaaattagc | agggtgtggt | ggcatgtgcc | 45900 |
| tgtaatccca | tctactcggg | aagctgaggc | aggagaatcg | cttaaaccgc | gagatggagg | 45960 |
| ttgcaatgag | ccgagatctc | accactgcat | tccagcctgg | gggcaagaga | acaagaccct | 46020 |
| gtcttaaaaa | aaaaaaacca | gctgtgaatc | catctgggtc | tggacttttt | ttagttggcc | 46080 |
| atttttaaat | tactgtttca | atctccctac | ctgctattgg | tcttttcaga | gtttctattt | 46140 |
| cttcctgggt | taatctggga | ggattgttta | attccttcta | ggttgaggaa | tttatccatc | 46200 |
| tcctgtaggt | tttctagttt | gtgtgcacaa | aggtagtcat | agtagctttg | aatgatcttt | 46260 |
| tgtatccctg | tggtatttgt | tgtaatttct | ctcatttcat | ttctaatacg | gcttattttg | 46320 |
| atcttattct | tttctgggtt | aatcttacta | atgggtctatc | agttttgttt | gtcttttcaa | 46380 |
| agaaccagca | ttttgtttta | tttttctttt | gtattttttt | ctttcagttt | catttagttc | 46440 |
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| ctctagtttc | ttgatgtgtg | agcctagatt | gtctgtttat | gctctttcag | actttttgat | 46560 |
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| ttgactgggt | gtgtcactat | tatcgttcag | ttcaaagaat | tttaaaattt | ccgtcttgat | 46680 |
| ttcattgttg | accaaagat | cattcagggg | cagggttacgt | aatttccata | tatttgata | 46740 |
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| accattctgg | tctctaacca | gagaccagaa | tctggtggct | aacacggtga | aaccccatct | 46980 |
| ctactaaaag | tacaaaaaat | tagccaggcg | tggtgggggg | cacctgtagt | cccagctact | 47040 |
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| actgcaccac | tgcactccag | cctgggcaac | agtgaagac | tctgtctcaa | aaaaaaaaaa | 47160 |
| ttattgagat | ggctgggcgc | agtggctcat | gcctgtaatc | ctagcacttt | gggaggccag | 47220 |
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sequece listing.TXT

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| tgcttgggag | gctgaggcag | aagaatcact | tgagcccaag | aggtggagggt | tgcggtgagt | 47400 |
| cgagatcacg | ccactgcact | ccagcctggg | tgacaaagcg | aggctctgtc | tcaaaaaaaaa | 47460 |
| aaaaaaatta | ttgagacttg | ttttgtgttc | tatcatttgg | tttatcttgg | aatgaatggt | 47520 |
| ccatgtgctg | atgaaaagaa | tgcatattct | gcagttgttg | ggtagaatat | tctgtaaata | 47580 |
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| tgtcttgatt | acctgtctag | tgctgtcagt | agagtactga | agtcctccac | tattattgtg | 47700 |
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| cactccagcc | tgggcgacag | agtgagactc | tgtctcaaaa | aaaaaaataa | ataaataagt | 48060 |
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| aaaattagcc | aggcgtgggtg | gcgcgtgcct | gtagtccag | ctacttggaa | agctaaggca | 48420 |
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sequece listing.TXT

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| accttgcctc | acagctctta | agattctttc | tttcatcttt | acttttagaca | atgtgatgac | 49500 |
| tatgtgccta | ggcaatgatc | tttttgcaat | gaattccccc | gggtgttcttt | gagcttcttg | 49560 |
| tatttgatg | tctagatctc | tagcaagacc | atggaagttt | ttcttgatta | ttccctcaag | 49620 |
| tatgttttcc | aaacttttag | atttcccttc | ttcctcagga | gcaccaatta | ttcttatgtt | 49680 |
| tgcttgttta | cataatctca | gatttcttgg | aggctttgtt | cattttttta | aattcttttt | 49740 |
| ttctttgtct | ttgttggatt | gggttcgttt | gaaagccttg | tctttgatct | ctgaagttat | 49800 |
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| tgtgtctttc | atttccagaa | gttttgatta | ttttttcttt | ataatatcta | tttctctgga | 49920 |
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| accagcacct | gttctggtgg | tggcaggtga | gtgaagtgga | ttctgttgga | gtcttttgtt | 50460 |
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| ctccagccag | gaggtggcac | tttcaagagg | gcaccagctg | cagtatagaa | gagagatata | 50700 |
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| tgcttccccg | tctccaagga | cctctgtgag | atcacgccag | gaatggcttc | cttggaactcc | 51360 |
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sequenece listing.TXT

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| attttcaggt | tccccagtg | ggatgtatgt | tcagagactg | accttttctt | ccctcacact | 51540 |
| ttgggaactc | acggtttttc | agctgtttca | tggcatttgc | agcagcgaac | cacttctttc | 51600 |
| aaagggctctg | tgaattcttt | cagttttcct | acagtgtttc | ttgcggtggt | cctgaagtga | 51660 |
| ttcttgaggt | aaaagttcgc | attgtgagtc | tccagatgct | gttctgtcca | tccaggtggc | 51720 |
| agctgcatgt | taatcctgtc | tccgatctgc | cattttccct | cctatctccc | aatgaatata | 51780 |
| attctatact | gaaagctacg | agtttggttt | tatctaattt | tagaatatta | aactttgttt | 51840 |
| tggatgcatt | ttccgccgga | tgcagtggtc | cacgcctgta | atcccagaac | tttgagaggc | 51900 |
| tgaggcgggc | agatcacctg | aagtcgggtg | ttcaagacta | gcctgaccaa | catggagaaa | 51960 |
| ccctgtctct | actaaaaata | caaaactagc | cggacgtggt | ggtgggtgcc | tgtaatccca | 52020 |
| gctactcggg | aggcactgag | gcaggagaat | cgcttgaacc | cagggaggtg | gaggttgtag | 52080 |
| tgaagcgaga | tcttgccatt | gcactccagc | ctgggcaaca | agagtgaaac | tccatctcaa | 52140 |
| aaaaaaaaaa | aagaaatatt | tagtattttc | cttacataag | tcattattga | attcctataa | 52200 |
| atttaacatt | ttagtgtaaa | atcacatata | taataataat | aattaacatt | tattaggtga | 52260 |
| ctactatgtg | ccaggggatt | ttattgcttg | ggtcactcag | tcttcacaac | acttcagtct | 52320 |
| aagtgtctgt | attcttattt | tagaggaaat | agatgttcag | aaaaaaaaaa | taactatgaa | 52380 |
| taagtaaact | tgtgggattt | gaaccagat | ctggtctgca | tctgaaacct | gtgctatttc | 52440 |
| caccaggtca | tatgtcttta | caactttaac | agttaggctt | ggcatattga | aaagtcattt | 52500 |
| agagcctggg | catggtggct | aacgcctata | atcccagtag | tttgggaggc | cgaggtgggc | 52560 |
| agatcacctg | aggttaggag | ttccagacca | ccctgggcaa | catggcgaaa | ccctgtctct | 52620 |
| actaaaaatg | caaaaattag | ccaggtgtgg | tggcatgcgc | ctgtagtccc | agttactcag | 52680 |
| gaggctgagg | caggagaatc | acttgaaccc | aggaggaaga | ggctgcagtg | agccaagatc | 52740 |
| gcgccactgc | attccagtgt | gggtgacaga | gtgagaccct | gtctcaaaac | aacaaaaaca | 52800 |
| aaaaaaagtc | atttagattg | aatatatata | tatatatata | tatatattca | atttgctaata | 52860 |
| attttataag | cagttgtcac | atttatcttc | atattgaggt | tcagttatat | ttttctttcc | 52920 |
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| tttttctttt | tctactattt | gaaacaatat | agttagataa | gagaaatacc | tgttgtttta | 53040 |
| aggcttagta | aaacttcccc | taaaactgtc | taggtctgga | gtttttttat | ggagggtttt | 53100 |
| ttaaaaaaaa | aaaaagattc | agtttctata | atagttattg | attattgaaa | ttttccaaag | 53160 |
| tcaatttttg | tagtttgtct | tctaaattgt | gcattttatc | tattcaaatt | cattttcata | 53220 |
| aagtttttat | ttacttatct | gtactttatc | tataattata | taatttatta | atttctaata | 53280 |
| ttgttctttt | ttttgagaca | ggatctcacc | ctgtcaccca | ggatgaagta | taatggatct | 53340 |
| agcttgatgc | ttaataaagt | aatctatcct | ttgtttctgg | ttgtttttaa | attctttccc | 53400 |
| ttggtatatt | atgggttcat | tagtataagt | tcaattttat | atttatttat | ctcataatat | 53460 |
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sequece listing.TXT

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| acttgcctgg | ctaacatggt | gaaaccccat | ctctactaaa | aatacaaaaa | ttagctggct | 53700 |
| gtggtggcac | atagctgtaa | tcccagctac | ttgggatact | gaggcatggg | aattgcttga | 53760 |
| acccgggagg | cagaggctgc | agtgagccaa | gatcgtgcc | ctgcactcta | gcctgggtaa | 53820 |
| cagagtgaga | ctctgtctca | aaaacaaaaa | caaaaacaaa | caaataattac | attattgtat | 53880 |
| tctcttgttt | tcaatatata | ttttcaaatt | acacagatgt | ttttcttttt | ttttgagaca | 53940 |
| gagtcttgct | ctgttgctca | tgctggagtg | cagtggcacg | atctcagctc | actgcaacct | 54000 |
| ccacctcctg | ggttcaagca | attcccctgc | ctcagcctcc | ttagtagctg | ggactacaga | 54060 |
| tgtgcaccac | cacaccaagc | taatttttgt | attttttagaa | gacacggggg | ttcaccatat | 54120 |
| tggccacgct | gatcttgaat | tcctgacctc | aagcgatcta | cctgtcttgg | cctcccaaaa | 54180 |
| tcctgggatt | acaggcgtga | gccaccatac | ctggccaact | ttcttgtatt | ctctttatct | 54240 |
| tcctcagcta | ttttctgtat | aatatcctca | gatctatctt | ctagtttata | aattttcttc | 54300 |
| aaccatgact | aattttatgt | tatacttgtc | caagatgttt | ttaatttcag | tgacaatatt | 54360 |
| tttcattttg | aaagttctgt | tttttgcca | ggcgtgtgg | ctcatgcctg | taatcccagc | 54420 |
| actttggggg | gccgaggtgg | gtggatcacg | aggtcaggag | atggagacca | tcctggctaa | 54480 |
| cccggtgaaa | ccccgtctct | actaaaagta | caaaaaatta | gctggacgtg | gtggtgggtg | 54540 |
| cctgtagtcc | cagctactca | ggaggctgag | gcaggagaat | ggcgtgaacc | cgggaggcag | 54600 |
| agcttgagct | gagccgagat | cgcgccacta | cactccagcc | taggcgacag | agcaagatgc | 54660 |
| tgtctcaaaa | aaaaaaaaaa | aaaaaagaac | tgtttttttt | tcacacctct | ctgttctttg | 54720 |
| tcactagctt | cttagttttc | attattgatg | ttagcctgtc | tttactggct | ttaagtaagt | 54780 |
| atgtttaaaa | tgatcaatct | ctttcagatt | gttgtgtctat | ttcaaagtct | tggggagcca | 54840 |
| gtcgtcttat | ttgttggtgc | tgctgattgt | tcctcatact | ggattgtttc | ctcttggtgaa | 54900 |
| ttgtgctttt | ttgcctgacc | actaatcttc | tgcaaaaact | tcttagtggtg | tatgtatgag | 54960 |
| gaaatatcat | atattcttat | ttgcaaaaga | cttgttgatg | aggaataacct | ggagcttcca | 55020 |
| tttcttacaa | gagacatttt | ttccaagctt | cactttctaa | gattagtgag | cagagatcgt | 55080 |
| ataagcatcc | ttttcactaa | gagtgatgcc | cactgggcac | ggtggctcat | gcctgtaatc | 55140 |
| ccagcacttt | gggaggccaa | ggtgggtggc | tcacgagatc | aggagttcga | gaccagcctg | 55200 |
| gccaacatga | tgaacccgt | gtctactaaa | aatacaaaaa | aattagctgg | gcatgggtgg | 55260 |
| gcacgtctgt | aattccagct | actcaggagg | ctgaggcagg | agaatcgctt | gaaccggga | 55320 |
| ggtcctaccc | ttctatgatt | ctagtttcat | ttccacctcc | ccacctctgt | acctatatca | 55380 |
| gcattaaatt | tccagtctcc | agccattgat | attaatctat | ttgcatctaa | aatctttcca | 55440 |
| aacagctttg | tgtcagcttt | tgagatgacc | ctggctttta | gttcgatgat | gaagcatttc | 55500 |
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sequenece listing.TXT

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| gtaaaagttt | taacctgtgt | tgttacaaac | agcaaatttc | ttttttatgt | tttgcaattt | 55680 |
| gcaaatggaa | aatagaagag | tttgtaaatt | agatatatga | gtttggaaat | tatatatctt | 55740 |
| atttttactg | taactagtgg | tcactgtaat | attttttata | aacacataaa | gatttgtttt | 55800 |
| tctgtagcaa | tatagttttt | tttagttatc | ctcatgggat | aatagtgatg | atttcctgca | 55860 |
| tgttctatat | cgtattaatc | attagtatta | ttagtaatct | gaagtaaaat | gaagtatgct | 55920 |
| tgatttttac | tttctattct | attttccttc | tttttttcct | tttccttttt | tttttttttt | 55980 |
| tttttttttt | agtgagacat | gctctgttgt | ccaggctgga | gtgcagtggc | gtgatcttgg | 56040 |
| ctcactgcag | cctctgcctc | ccaggttgaa | gcgattctcc | tgccctcagct | tcccaaatag | 56100 |
| ctgggattac | aggtgcctgc | caccaccctc | gactaatttt | ttgtaatttt | agtagagatg | 56160 |
| aggtttcacc | atgttgacca | agctggtctc | caactcctga | cctcaagtga | tccaccgcgc | 56220 |
| tcagcatccc | gaagtgctag | gattacaggt | gtgagccgct | gcgcccagac | ctattttcct | 56280 |
| tcttttgat | tactatttaa | aaatattatt | tacaggctgg | gtgtggtggc | ttacacctgt | 56340 |
| aatctcagca | ctttgagagg | ccaagatggg | aggattgctt | gagcccagga | gttcaagagc | 56400 |
| agcctgggca | acaaaacaag | accccatctc | tacaaaaaag | catacaaaca | aaaaattagc | 56460 |
| catgtatggg | gggtgggcacc | tgtagtgcct | gctcttgaaa | ggctgagatg | ggaggatttt | 56520 |
| ttgagccaag | gggttcaaag | ctgcagtgtg | ctgtgattgc | atcactgcac | tccagcctcg | 56580 |
| gtgacggtaa | taaccctgtc | tcaaaaaaaaa | aaaaagatat | tattcacaaa | attttttagtg | 56640 |
| tgttctccac | tgcttttagaa | aaccattctc | ttttcatttt | gctctcaaat | tccccactcc | 56700 |
| tggtttctta | atgttatttc | tctgtgttct | ggaacattta | tttgagtaat | gtattcacaa | 56760 |
| aagatgacta | ggtagtgttg | gctgagttct | tacataccta | gaaatgtctt | ttgccattat | 56820 |
| gagttagcaa | cagttaactt | ggatataaaa | ttattgggat | cttgtattag | gtaggttcaa | 56880 |
| gccgagcatt | gtaaaataaa | gccccaaatg | tacagatcaa | ataaagataa | aaatttagtt | 56940 |
| ctctttaatg | taatactttg | ttatgcaaca | gtgctcaacg | actgtgttct | acaaggccat | 57000 |
| cctggctgat | gggatcacct | ctgttatcac | attatttggc | tttcatcttt | gagtctaaga | 57060 |
| gcgctccttc | cccccttgcc | ccagtccttt | gaaatgtcta | gtcaagaccc | tttcctagtt | 57120 |
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| tgccagttct | cattagttct | ctttgatggc | taaaacctct | tacactatta | taagaaagca | 57480 |
| tataggagat | aaagtatgta | ggagatactg | ctatagagtt | taaggagata | gagatggtat | 57540 |
| tggcagtggt | ggttttgcct | atgtgccctt | ctctagagtt | gatgtagagt | tgccctagagt | 57600 |
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sequece listing.TXT

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| aattttgcat | tcttttcttg | cagaaaatat | atttgattta | tttgtttagg | atttgggggt | 57780 |
| gagctttgat | gtgtaattac | tttatcagtt | gattgttaac | tagaaaatga | gaaataagtg | 57840 |
| acttgtttgc | taccattggt | tttgaaggga | gaaattcaga | aaatatat | actgagaagt | 57900 |
| taaaggaaga | cagtattcct | gctcctcgct | ctgttggcag | tattaaaatc | aactttaccc | 57960 |
| ctcgagtatt | ccaacagct | cttcgtgaat | cacaagtagc | agaagaggag | gaggtatata | 58020 |
| tacttactct | agttacaatt | accacaaatg | aaaatacttt | atTTTTat | catctattga | 58080 |
| aattagtact | ggttctgaat | ttcttaagta | tttattacac | taaagaaata | acgtcatgaa | 58140 |
| tatgttttag | aatttcctta | tgagaaaata | tattttgcag | atgtttttgg | ctccagaata | 58200 |
| gtgataagag | aataccgact | taatatatgt | acagtaggcc | gggCGcagtg | gctcatgcct | 58260 |
| gcaatcccag | cactttggga | gcccagatg | ggtggatcac | ttgaggtcag | gagttcaaga | 58320 |
| ccaacctgac | taacatgggg | aaactccatc | tgtactaaaa | atacaaaaat | tagcctggcg | 58380 |
| tggtggcgag | cacctgtgat | cgagctact | agcggggctg | gggcaggaga | attgcttgaa | 58440 |
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| tcagttcact | gcaacctcct | cctcccaggt | tcaacaatt | ctcctgcctc | agcctcccta | 58680 |
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| acctgtaatc | ccagctactc | gggaggctga | ggcaggagaa | tcacttgaac | ccgggggtca | 59160 |
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| tattattaaa | caaggtat | tctatatttg | taacatttct | ataattatac | agttataata | 59340 |
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| cccggcccat | agaattat | ttgaattgtg | tttatacaca | cacacacaca | cacacacaca | 59700 |

sequece listing.TXT

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| aggctggagt | acagtgggac | aatcatggct | cactgtagcc | ttgaactctt | gggctcaagt | 59820 |
| gaccttctgc | atattttttca | gtacagaaaa | atgaaaatat | aaaagaattt | tagatcaata | 59880 |
| tcctggatga | acatcgatgc | aaaaatcctc | aataaaatgc | tggcaaaccg | aatgcagcag | 59940 |
| cacatcaaaa | agcttatcca | ccatgatcaa | atgggcttca | tccctgggat | gcaaggctgg | 60000 |
| ttcaacatac | gcaaatcagt | aaacgtaatc | cagcatataa | acagaaccaa | agataaaaac | 60060 |
| cgcatgatta | tctcaccaga | tgcagaaaaag | gcctttgaca | aaattcaaca | gcacttcatg | 60120 |
| ctaaaaactc | tcagtaagct | agatattgat | gggaagtatc | tcaaaataat | aagagctatt | 60180 |
| tatgacaaac | ccacagccaa | tatcatactg | aatgggcaaa | aactggaagc | attctctttg | 60240 |
| aaaactggca | caagacaggg | atgccctctc | tcaccactcc | tattcaacac | agcatagtgt | 60300 |
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| ccgccctgtc | tgggaagtga | ggagcgcctc | tgcttggtgc | cccttcatct | gggatgtgag | 61680 |
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sequece listing.TXT

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| ctggctgccg | catctgggaa | gtgaggagcg | cctctgcccg | gctgccccgt | ctgggatgtg | 62400 |
| aggagcgcct | ctgcccggcc | gccaccccat | ctgggaagcg | gggagcgcct | ctgcccggcc | 62460 |
| accccgtctg | ggaagtggg | agcgcctctt | cccggccgcc | ccgtctggga | ggtgaggagt | 62520 |
| gcctctgcct | ggtgcccttc | gtttgggagg | tgaggagcgc | ctctgcctgg | ccaccccgtc | 62580 |
| tgggaggtga | ggagtgcctc | tgcctggccg | ccccatctgg | gaggcgagga | gcgcctctgc | 62640 |
| ctggccgcc | catctgggag | gtgtacccaa | cagctccgaa | gagacagcga | ccatcgagaa | 62700 |
| cgggccatga | tgacgatggc | ggttttgtgg | aaaagaaaat | ggggaaattt | ggggaaaaga | 62760 |
| aagagagatc | agattgttac | tgtgtctgtg | tagaaagaag | tagacatagg | agactccatt | 62820 |
| ttgttctgta | ctaagaaaaa | ttcttctgca | tgggatgctg | ttaatctata | accttacccc | 62880 |
| caaccccgtg | cactctgaaa | catgtgctgt | gtcaactcag | ggttaaattg | attaagggcg | 62940 |
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| ccactcccta | atctcaagta | cccagggaca | caaacactgt | ggaaggctgc | agggacctct | 63060 |
| gcctaggaaa | accagagacc | tttgttcatg | tgtttatctg | ctgtccttct | ctccactatt | 63120 |
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| taaaaaaaaa | aaaaaaaaaa | aagggatttc | aattaggaaa | agaggaagtc | aaattgtccc | 63240 |
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| ttaagctgat | aagcaacttc | agcaaagtct | caggatacaa | aatcaatgtg | cagaaatcac | 63360 |
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| tcacaattgc | ttcaaagaga | aaaaaatacg | taggaatcca | acttacaagg | tatgtgaagg | 63480 |
| acctttcaa | ggagaactac | aaaccactgc | tcaacaaaat | aaaagaggac | acaaacaaat | 63540 |
| ggaagaacat | tccaagctca | tggatagaaa | gaatcaatat | cgtaaaaatg | gccgtgctgc | 63600 |
| ccaaggtaat | ttatagattc | aatgccatcc | ccatcaagct | accagtgact | ttccccaag | 63660 |
| aattggaaaa | caaactactt | taaagttcat | atggaaccaa | aaaagaaccc | acattgccaa | 63720 |
| gacaatccta | agccaaaaga | acaaagctgg | aggcatcatg | ccacctgact | tcaaactaca | 63780 |
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sequenece listing.TXT

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| caaacctgac | aaaaacaaga | aatggggaaa | ggattcccta | tttaataaat | ggtactggga | 63960 |
| aaactggcta | gccatatgta | gaaagctgaa | actggatccc | ttccttacac | cttatacaaa | 64020 |
| aattaattca | agatggatga | aagacttaaa | tgttagacct | aaaaccataa | aaaccctaga | 64080 |
| agaaaacct | gacaatacca | ttcaggacat | aggcatgggc | aaggacttca | tgtctaaaac | 64140 |
| acaaaaagca | atggcaacaa | aagccaaaat | tgacaaatgg | gatctaatta | aactaaagag | 64200 |
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| acaaacttac | aagaaaaaaa | caaccccatc | gaaacatggg | tgaaggatat | gaacagacac | 64380 |
| ttctcaaaag | aagacattta | tgcagccaac | agatacatga | aaaaatgctc | atcatcactg | 64440 |
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| gcgatcatta | aaaagtcagg | aaacaacagg | tgctggagag | gatgtggaga | aataggaata | 64560 |
| cttttacact | gttggtggga | ctgtaaacta | gttcaaccat | tgtggaagac | agtgtggcga | 64620 |
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| acaaggacct | aagactgctc | tttgaccagt | ttatgaagaa | atgtgaagac | ggctcctgga | 65100 |
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| ttcttgaccc | aaagcttatg | aaagaagaac | aagtgtcaca | ggcccagctc | ttcaccagaa | 65220 |
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| atcctgctaa | aagtctgaca | taaagagctg | ctggtgaact | ccatctcatt | ctctcccctc | 65640 |
| cagaagaagc | agttgtcccc | cgaatactct | gctccctcac | tgctgaatcc | ctgtagggag | 65700 |
| aagcctgcca | agagtgcact | tccgaaacag | ccttctgaat | acaaggagga | ttcagtttcc | 65760 |
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| gggcgctgtg | gctcacgcct | ataatcccag | cacttttagga | ggccaaggcg | ggtggattgc | 65880 |
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sequece listing.TXT

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| aggcaggaga | attgcttgaa | cccgggaagc | ggagggttgca | gtgagccaag | atcatgccac | 66060 |
| atcactccag | ccttggaac | agaacgagaa | cccatctcaa | aacaaaacaa | aacaaaaaaa | 66120 |
| actctgtctc | cttaggatgt | gttacctgct | ccactgcgga | ctggagaaat | aaatgtgtat | 66180 |
| tgaaactttt | cctgcaaact | tgaaaatgct | agaaaaccaa | gcatgaagaa | taaatacatg | 66240 |
| gcagggaaga | cacagacatg | tgcatatgca | tatacattat | aagttagtaa | gttagaaagc | 66300 |
| tagctttgtt | gtatctgaac | acatgaatct | ttttggtcag | agtaggaagc | acagccaaat | 66360 |
| tctataggaa | tgaatacctc | aaatctgttg | tctgggattc | tagagattaa | accactgtgc | 66420 |
| catttaaaaa | agaaaaaaga | aaatgtggca | catagacacc | atggaatact | atgcagccat | 66480 |
| aaaaaaggat | gagttcatgt | cctttgtagg | gacatggatg | aagctggaaa | ccatcattct | 66540 |
| cagcaaacta | ttgcaaggac | aaaaaaccaa | acaccacatg | ttctcactca | taggtgggaa | 66600 |
| ttgaacaatg | agaacacttg | gacacaggaa | ggggaacatc | acacaccggg | gcctgtttgtg | 66660 |
| gggtgggtggg | agggggggagg | gatagcatta | ggagatacac | ctaattgtaa | tgacgagtta | 66720 |
| atgggtgcag | cacaccaaca | tggcacatgt | atacatatgt | aacaaacctg | catgtttttgc | 66780 |
| acatgtaccc | tagaacttaa | agtatagtaa | aaaaaaagaa | aaatgaaaat | attataaccc | 66840 |
| agaaagataa | aataataatc | acatgggctg | ggcatgggtg | ctcacgcctg | taatcccagc | 66900 |
| actttgggag | gccgaggtgg | gcagatcaca | aggtcgggag | ttcgagacca | gcctggccaa | 66960 |
| tatggtgaaa | ccccgtctct | actaaaaata | caaaaactgg | ccgggcatgg | tggcacacgc | 67020 |
| ctgtaatcct | agctgttcag | gaggctgagg | caggagaatt | gcttgaaccc | agaaggcgga | 67080 |
| ggttgcggtg | agctgagatc | atgcaactgc | actccagcct | gggggacaga | gtgcgactgt | 67140 |
| ctcagaaaaa | aaaaaattaa | taatatcata | tgaactccca | gaaagcaaga | aattttggcta | 67200 |
| gaaattttat | ctattgtatt | tccaccagct | attgaggttt | aaaaaaaagt | ttaaggacgg | 67260 |
| gcacggtggc | tcaagcctgt | aaccccagca | ctttgggagg | ccaaggtggg | tgaatcacia | 67320 |
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| gtgggcagat | cacaagggtca | ggagatcgag | accagggtga | aacctcgtct | ctactaaaaa | 67680 |
| tacaaaaaat | tagctgggtg | tggtggtggg | tgctgtagt | cccagctact | tgaggaggctg | 67740 |
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sequece listing.TXT

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| gttacagtga | gctgagattg | ctccacttgc | actccagcct | gggtgacaga | gcaagataaa | 68160 |
| aaaaaaaaat | taccaccatc | aagtagtacg | ttaatctgct | ctggctgcta | taaacaaaat | 68220 |
| accatagact | gggtggctta | aacaataaac | agtcattttct | tatagttctg | gaggctggga | 68280 |
| aatccaagat | cagggtgcc | gcatgattct | tggtaggggt | gctcatcata | acttgcggac | 68340 |
| accactttc | tactgtgtc | cacatggggg | agctctgac | tctttctctt | cttaaaagga | 68400 |
| taaactcgtt | ttgggagctc | tcctctcatg | acctaaacct | cattacctct | cagaggcccc | 68460 |
| actaccaa | accgattcac | attgatgggt | atggcttcag | tatatcaatt | tggaggagag | 68520 |
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| agataatgca | aataagcaaa | taaggtagac | aggcatcca | tattttaaaa | gtcagataac | 69240 |
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| ttggtcccca | ggctggcggt | tgatggcaca | atcttggctc | aatgcaaact | ccacctccca | 69960 |
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sequece listing.TXT

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| gcaatttgtg | ttcatatttt | gaggcggcta | tagatattat | ttattgtatt | tcatcatata | 70260 |
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| cactgggcca | aaattaggtg | tcaactgcct | tccttttgaa | ggctctagga | gaaaagctgt | 70440 |
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sequece listing.TXT

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| ggtaagccat | cctctttgtc | aaatacaatt | agatattatt | tctgtgtttc | tgtttcaatg | 73140 |
| ttaaattgtt | tttcttctct | gtttttgtct | cattagcaaa | ttgtttgcaa | cggaaaacta | 73200 |
| tttggcagct | atcaatgcat | ataatttagc | cataagacta | aataataaga | tgccactatt | 73260 |
| gtatttgaac | cgggctgctt | gccacctaaa | actaaaaaac | ttacacaagg | ctattgaaga | 73320 |
| ttcttctaag | gtatggatat | ctatgtatga | tatatggtgc | tttaaatata | tccttctatt | 73380 |
| aattggttta | aatgatgatc | tttttctgtt | cagttgaaat | aattgagatg | caaagatttt | 73440 |
| aaagattgtc | tttcttattg | aatctttttt | tttttaactg | attttttact | aatggacaag | 73500 |
| gaactggtgt | ttttttgtga | cttctatgaa | tagttagtta | gattaaaaat | cagctgttac | 73560 |
| tgcccgggcg | cagtgggtct | cgctatattg | cacaggcagg | tctcgaactc | ctgggctcaa | 73620 |
| gctatcctcc | cgcctctgcc | tccctgagag | ctgggattac | agacatgagc | caccgcgccc | 73680 |
| ggcaccagc | ccagatatct | ctacaatcat | tttctcattt | gcagggtaac | ttagtatatt | 73740 |
| ctactttcca | ttactaatat | ttactgtgta | tgtcttgaac | ttctacagct | ttttcttttt | 73800 |
| tccatgtcaa | gataacttgt | tttaagggca | tatcatgtgc | aaaatctctt | aggtagcttc | 73860 |
| ttgagattga | ggatatggag | gacacaacca | agtcttcatt | actttgatat | catactactt | 73920 |
| ttatgatcca | gtttttcttt | gactctcaca | atgcaaacaa | atatttggtg | aatgaatgaa | 73980 |
| taagctgaat | caccaatct | gaatacaaaa | gccacaaaat | gctatttaat | aattcctact | 74040 |
| ggtaaaaaata | aagctgtgga | gatgtgaaat | gataagctga | ataataacct | tgagggggta | 74100 |
| tgaatcccat | ataggaacaa | ctgaaaaatt | ccttaagttg | ttcaacatat | ctcttctgga | 74160 |
| aaacctgata | ataattattt | gttttatata | tatatataat | atatattata | tataagaata | 74220 |

sequece listing.TXT

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| tatatatatt | atatatattt | tatataatat | aatatatata | attatatata | atatatataa | 74340 |
| tatatatata | atatatgtaa | tatatataat | atatattata | atatatataa | tatataatat | 74400 |
| atgtaatat | tataatatat | attatatata | taaaacaaat | atatatattt | gttttataaa | 74460 |
| aacaattata | tatatattata | tataaaaaac | aaataattat | atatatattt | gttttatata | 74520 |
| tataatatat | ttatatattg | taaattcctg | taccagctaa | gctaaaaatt | taggtgagtg | 74580 |
| cttgaggcca | tttttttttt | tttttttttg | agacgaggtc | ttgctctggt | gccaggctg | 74640 |
| gagtacagg | gcacaatttc | ggctcactgc | aagctccgcc | tccccgggtc | acgccattct | 74700 |
| cctgcctcag | cgtccggagt | agctgggact | gaaggcgccc | gccatcatac | ccggctaatt | 74760 |
| ttttgtattt | ttagtagaga | cggggtttca | ccgtgttagc | caggatgggtc | tcgatctcct | 74820 |
| gacttcgtaa | tccgccccgc | tgggcctccg | ccgcctggg | cctcccaaag | tgctgggatt | 74880 |
| acaggcatga | gccaccacac | ccggccgagg | ccttttgtgt | gtgtgtgtgt | ttgtgtgaga | 74940 |
| caaagtctca | ctctgtcacc | aggctggagt | gcagtgggtc | gttcttgggt | tattgcaacc | 75000 |
| cctgcctccc | ggattcaagt | gattctcctg | cctcagcctc | ctgagtagct | gggattacag | 75060 |
| gtgcccgtca | ccacatctgg | ctagtttaag | tatttttagt | agagacagg | ttttgccatg | 75120 |
| ttggccaggc | tggcctcaag | ctcctgactt | tgggtgatct | gccacctca | gcctccgaaa | 75180 |
| gtgctggaat | tacaggcgtg | agccaccagg | cccacccgag | gcttatttta | aaattagaat | 75240 |
| ttttaccatg | tttttgcttg | tttgtttttt | gtttttgttt | tttttgagac | ggattctcgc | 75300 |
| tctgtcaccc | aggctggagt | tcagtggcgc | gatctcgggt | ctctgcaagc | tctgcctccc | 75360 |
| tggttcaagc | aattctcccc | cctcagcctc | ccaagtagct | aggactacag | gtgtgcacca | 75420 |
| ccacagccag | ataatttttg | tatttttttt | tagtagagac | ggggtttcgc | catgttggcc | 75480 |
| aggctggtct | caaaatcctg | acttcagggt | atccacctac | ctcggcctcc | ccaagtgttg | 75540 |
| ggattacagg | cgtgagccac | catgcccagc | cttttgcttg | tttaaattaa | gaaactataa | 75600 |
| ctttcttgta | ataattatat | atattttgta | aggcactgga | attattgatg | ccacctgtta | 75660 |
| cagacaatgc | taatgcaaga | atgaaggcac | atgtacgacg | tggaacagca | ttctgtcaac | 75720 |
| tagaattgta | tgtagaaggt | aaggaattga | tagaaatggt | ttaagtccca | agttatactc | 75780 |
| tgaaaaaaat | gtcattggaa | ttattttaaga | tcgtgacttt | taaggactcc | atttttaaat | 75840 |
| attttttagca | tttaatttat | tcttagtaat | gtctgcagta | tatctgacaa | tacatgattt | 75900 |
| ctaaattata | tttaaaaaat | tcattgtaga | agagaattaa | aataagtgtg | aacaacaagt | 75960 |
| ttcagtctag | aaaaatgcta | tattagctgg | gtgcagatgc | tcatgcctgt | aatcccagca | 76020 |
| ctttgggagg | cagaggcggg | tggatcacct | gaggtcggga | gttcgagacc | agcctgacca | 76080 |
| acatggagaa | accctctact | aaaaacacaa | aattagcttg | gcgtagtggc | acatgcctgt | 76140 |
| aatcccagct | acttgggagg | ctaaggcagg | agaatccctt | gaacccggga | ggcggagatt | 76200 |
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sequece listing.TXT

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| ctgggtgtgg | tgcttcacgc | ctataatccc | aggaactggg | gaggctgagg | tggaaggatg | 76380 |
| gcttgaggcc | aggagtttga | gaccagcttg | ggcaacatag | tgagaccctg | tctcttaaaa | 76440 |
| aaaaaaaaata | catgataggc | tgggtgtggt | ggcttatgcc | tgtaatctca | gcactttggg | 76500 |
| aggccgaagc | agggtggatca | caaggtcagg | agatcaagac | catccgggct | aacacggtga | 76560 |
| aaccccgtct | ctactaaaaa | tacaaaaaca | aaattagcca | ggtgtggtgg | cgggcgcctg | 76620 |
| tagtcccagc | tactcaggag | actgaggcca | gagaatggcg | tgaacccgga | aggcagagct | 76680 |
| tgcagtgagc | caagatcacg | ccactgcgct | acagcctggg | tgacagagca | agactctgtc | 76740 |
| tccaaaaaaaa | aaaaaaaaaa | gataaaatat | ataaatgatt | tgagatatca | tggatattta | 76800 |
| tctcagagag | cttcttcggt | catccctgta | tgtatgtatg | tatttgtgtg | tgtgtgtgtg | 76860 |
| tgtgtgtgtg | tgtgtataca | cacacctaag | ctcggaataa | actgatccac | catagtgcac | 76920 |
| gcacattgct | tatatattgtt | agattgtatt | aagttctgta | atthagctct | atgtatacag | 76980 |
| aaaatatagc | atttatttta | ttttatttta | gatagattta | ggggccgggc | acggtggctc | 77040 |
| acacctgtaa | tcccagcact | ttgggaggcc | aagggtgggtg | gatcatgagg | tcaggagatc | 77100 |
| gaggccctac | tggctaacac | ggtgaaaccc | catctctact | aaaaatacaa | aaaattagcc | 77160 |
| aggtgtggtg | gcagggtgcct | gtagtcccag | ctactcagga | ggctgaggca | gaagaatggt | 77220 |
| gtgaaccag | gaggcagagc | ttgcagttag | ccgagatcat | gccactgcac | tcccgcctgg | 77280 |
| gcaacagaag | gagactctgt | ctcaaaaaaa | aaagatggga | atctaattta | aaacttggtg | 77340 |
| cttgttctga | accatgctac | tagtgattat | ttttatttta | aacaactatt | gtctagataa | 77400 |
| aagaagtgct | aataaaatat | ttattgtatt | aatcatcatt | gctatataaa | cacaggccta | 77460 |
| caggattatg | aagcggcact | taagattgat | ccatccaaca | aaattgtaca | aattgatgct | 77520 |
| gagaagattc | ggaatgtaat | tcaaggaaca | gaactaaaat | cttaatgact | attagaagta | 77580 |
| actaagtatt | gttataagtt | ttttaaaaac | aactggaggc | atctttgtac | atattatggc | 77640 |
| cagttgtaca | gaatcgcttt | ctgttttagta | ctttagttct | gttgagggca | aaatattata | 77700 |
| aatctataga | aaataaactg | tttgacttga | atcatttctg | aataagtaaa | tctaaataag | 77760 |
| aatctatttt | aattccttat | ttcttcatat | taatacatat | gtatactttt | ttgtgttact | 77820 |
| gaattaagct | tgcccttgta | acaaaatatg | ttttggtata | gttaccagga | cacttactga | 77880 |
| ttaattttta | acaaggtaga | attttaaaat | aaaagattta | taaataactt | ttgtttgtat | 77940 |
| taatatacca | tttaattgac | tgaatggttg | actttggtat | aataaatatt | gacaggttgt | 78000 |
| ccgttagttt | ccaactgcac | agaaccttat | ttttttgttt | aatacttctc | taatgcttgt | 78060 |
| tgttcaagat | tagaccagtt | cagcctagta | taaaacaact | gtttagaaaa | ccttatattc | 78120 |
| aacttcattt | ataggctgtg | cacctgaaaa | ctgatcatat | ttcataacac | tatctggtga | 78180 |
| agataaattt | ttgagtgaag | tagttttcta | gtacctcaa | gtagacaagg | gggagaaaag | 78240 |
| acagcaaagt | gtaagatatt | aacctggaat | attatggtat | tggtattgga | ctgcaccatc | 78300 |
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sequece listing.TXT

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| gaggaagtct | ccctttgttg | cccaggctgg | agtgcaatgg | cgcgatcttg | gctcactgca | 78480 |
| agctctgcct | cctgggttca | ggccattctc | ctgccttagc | ctcccagagta | gatgggacta | 78540 |
| caggcgcctg | ccaccacgcc | tgactaattt | tttgcatttt | tagtagagat | ggggtttcac | 78600 |
| catgttagcc | aggatggtct | caatctcctg | atttcgtgat | ccaccacact | tggcctccca | 78660 |
| aagtgctgga | ttacaggtgt | gagccaccgc | gcccagcctt | tttttttttt | tttcttgaga | 78720 |
| cacagtttca | ctcttggtgc | ccagactgga | gagcagtggc | ctgatcatag | ctcgtgcat | 78780 |
| cctccacctc | ccagggttaa | gggattctcc | tgccctcaggc | ctcctgagta | gctgagatta | 78840 |
| caggcaccac | cacgcctgat | taattttttg | tatttttagt | aaagacaggg | tttcatcatg | 78900 |
| ttggccaggt | tggctctgaa | ctgctgacct | cagggtgatcc | accgcctcg | gcctcccaaa | 78960 |
| gtgcagggat | tacaggcatg | agccaccgcg | cccggcctta | tttattttatt | tttgagatgt | 79020 |
| agtctggctc | tgtaaccag | gcttttagtgc | agtggtgcaa | tctcggctca | ctgcaacctc | 79080 |
| cgtctcctgg | gttcaagcaa | ttctcctgcc | tcagccttcc | aagtagctgg | gattacaggt | 79140 |
| gcgtgccacc | acatctggct | aatttttgta | tttttagtag | agacgggggt | ttaccatgtt | 79200 |
| ggccaggctg | gtctcgaact | cctgacctca | agtggctctgc | ctgcctcagc | ctcccaaagt | 79260 |
| gctgggatta | taggcaagac | ccccgcgcc | tggcctaaca | aatttagttt | aaagggtctaa | 79320 |
| ttggccttta | tcagtgactc | atgaatcaag | cagcatctta | tataaagatt | tagaagagac | 79380 |
| actgctagag | gtggcagaat | aaaatggcct | ttgcaaaatt | atgattaaga | cagtgaagaa | 79440 |
| ggctgggctc | agtggctcaa | gcctgtaatc | ccagcacttt | gggaggctga | ggcaggcaga | 79500 |
| tcacaaggctc | aggagatcga | gactatcctg | gctaacatgg | tgaaaccccc | ctctccacta | 79560 |
| aaaatacaaaa | aatttagcca | ggcgtgggtg | caggcgcctg | tagtcccacc | tactcgggag | 79620 |
| gctgaggcag | gagaatggcg | agaactcggg | aggcggagggt | tgcagtgagc | cgagattgtg | 79680 |
| ccactgtact | ccaacctggg | tgaaagagca | agactccatc | tcaaaaaaaaa | aaaaaaaaaaa | 79740 |
| aaaaaaaaaaa | gaaaaaaaaag | acagtgagag | agatttaact | taactgaatt | tatcttgctt | 79800 |
| ttaacctcca | agctgtcctt | gttcattcct | gggtgtaggc | tgaactaact | ttaaaaaact | 79860 |
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| taaaaataca | aaaatttagcc | gggcatggtg | gcagggtgctt | gtaatcccta | gctacttggg | 80160 |
| aggctgaggc | aggagaatca | cttaaaactg | ggagggtgaag | gttgacagtga | gcggagattg | 80220 |
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| ttagaagtca | tactgctgga | ggccaggcgc | ggtgggtcat | gcctgcaatc | ccagcacttt | 80340 |
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sequenece listing.TXT

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| aatcccagct | actcgggatg | ctgaggcagg | agaatccctt | gaacccggga | ggcggagggtt | 80520 |
| gcggtgagct | gaggtggcgc | cattgcactc | cagcctggac | aagaagagcg | aaactccatc | 80580 |
| tcaaaaaaaaa | aaagaagtca | tactgctgga | ggctacaaaa | ttctgaccct | ccctaaactg | 80640 |
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| caccagatc | aataaactga | ctcatcta | cttgtggccc | ccccaaccag | gaactaactt | 80760 |
| agcacaagaa | aacagctcca | atctttaatt | tcattcttaa | ccaatgagcc | actcctggct | 80820 |
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| aatcagccgg | gtgtgggtgg | gggcacctgt | aatcccagcc | actcgggagg | ctgaggcaga | 81060 |
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| aactctggtc | ttctgcacag | ctggttctgt | gtgaattact | ctttctctgt | tgcaatttcc | 81240 |
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| aagaggttca | gtccaaatca | gtggccttcc | atacatttta | tttaacacat | cccagaaaga | 82440 |
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sequece listing.TXT

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| ttgtctaata | gttagtggt | atataaacct | attctgtctt | ggttccctag | tgtagaagaa | 82620 |
| aatcagagtt | gaacagtaaa | gtgaaaaaaa | aatgctttt | actcagtaac | ttataataag | 82680 |
| gaaaaagaga | cctcagcatg | gaacgaggct | tagttctttt | cattcctgtg | aggcctgaga | 82740 |
| ataaaaaatg | aaaaagaact | aggctcagtt | ccaaatatgg | catggacaag | taggggttta | 82800 |
| tagccaagga | gtaggttggg | taatgaagg | ggtcagtgga | tggaaaatta | ccaagagaaa | 82860 |
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| gcagtagtgt | gatgtaggct | tactgcaacc | tccacctcct | gggttcaagt | gattctcctg | 84240 |
| cctcagcctc | ccaagtagct | gagattacag | gcatgcgcca | ccatgcccgg | ctaatttttg | 84300 |
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sequenece listing.TXT

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| agctgtgctt | gtgtcattgc | gctccagcct | gggtgacaga | gggagaccct | gactcaaaaa | 85020 |
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| agccactgtg | cctggagtat | cctgagaatt | tttttttttt | tttttttgag | atagtctcac | 87060 |
| tctgttgccc | aggctgcagt | gcagtgggtg | gatcttggct | cactgcaacc | tctgcctcct | 87120 |
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| ccacgcctgg | ctaatttttt | gtatttttag | tagagacggg | gttttgtcat | gttggttagg | 87240 |
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| ttacagggtg | aagccaccgt | gcccggccaa | tcctgagaat | ttagcaacaa | caaaaatgac | 87360 |
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| gagactccat | ctacacacac | acacacacac | acaccccaca | aattagctag | gggcatgggt | 88860 |
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