


```

1501 aaagaacgtggactccaacgtcaaagggcgaaaaaccgtctatcagggcgatggcccactacgtgaaccatcacccctaatcaagtttttggggctcgagg 1600
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      1610      1620      1630      1640      1650      1660      1670      1680      1690      1700
1601 tgccgtaaagcactaaatcggaaccctaaagggagcccccgatttagagcttgacgggaaagccggcgaacgtggcgagaagaaggaaagaaagcga 1700
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      1710      1720      1730      1740      1750      1760      1770      1780      1790      1800
1701 aagagcggggcgttagggcgctggcaagtgtagcggctcacgctgcgcgtaaccaccacaccccgccgcttaatgcgccgctacagggcgcgctcaggtgg 1800
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      1810      1820      1830      1840      1850      1860      1870      1880      1890      1900
1801 cacttttcggggaaatgtgcgcggaaccctatttgtttatttttctaaatacattcaaatatgtatccgctcatgagacaataaccctgataaatgctt 1900
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      1910      1920      1930      1940      1950      1960      1970      1980      1990      2000
1901 caataatattgaaaaggaagagctctgagggcgaaagaaccagctgtggaatgtgtcagttagggtgtgaaagtcgccagctccccagcaggcag 2000
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2010      2020      2030      2040      2050      2060      2070      2080      2090      2100
2001 aagtatgcaaagcatgcatctcaattagtgcagcaaccaggtgtgaaagtcgccaggtccccagcaggcagaagtatgcaaagcatgcatctcaattag 2100
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2110      2120      2130      2140      2150      2160      2170      2180      2190      2200
2101 tcagcaaccatagtcgcccccctaactccgcccatcccgcccctaactccgccagttccgccattctccgcccatggctgactaatttttttattt 2200
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2210      2220      2230      2240      2250      2260      2270      2280      2290      2300
2201 atgcagagggcggagggccgctcggtctgagctattccagaagtgtgaggggcttttttggaggcctaggcttttgcaaatcgatcaagagacag 2300
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2310      2320      2330      2340      2350      2360      2370      2380      2390      2400
2301 gatgaggatcgtttcgcatgattgaacaagatggattgcacgcaggttctccggccgcttggtggagaggctattcgggtatgactgggcacaacagac 2400
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2410      2420      2430      2440      2450      2460      2470      2480      2490      2500
2401 aatcggtgctctgatgcccggctgttccggctgtcagcgcagggggccgggtctttttgtcagaccgacctgcccgtgcctgaatgaactgcaa 2500
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2510      2520      2530      2540      2550      2560      2570      2580      2590      2600
2501 gacgaggcagcgggctatcggtggtggccacgacggcgcttcttgcgcagctgtgctcagcgttgcactgaagcgggaaaggactggctgctattgg 2600
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2610      2620      2630      2640      2650      2660      2670      2680      2690      2700
2601 gcgaagtgccggggcaggatctcctgtcatctcaccttgcctcctgccgagaagatccatcatggctgatgcaatgcccgggctgcatacgttgatcc 2700
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2710      2720      2730      2740      2750      2760      2770      2780      2790      2800
2701 ggctacctgccattcgaccaccaagcgaacatcgcatcgcagcagcagcactcggatggaagcggctcttgcgatcaggatgatctggcgaagag 2800
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2810      2820      2830      2840      2850      2860      2870      2880      2890      2900
2801 catcaggggctcgcgccagccgaactgttcgccaggctcaaggcgagcatgcccgagggagatctcgtcgtgacctggcgatgctctgcttgcga 2900
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      2910      2920      2930      2940      2950      2960      2970      2980      2990      3000
2901 atatcatggtgaaaatggccgcttttctgattcatcagctgtggccggctgggtgtggcgaccgctatcaggacatagcgttgctaccctgatat 3000
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      3010      3020      3030      3040      3050      3060      3070      3080      3090      3100
3001 tgctgaagagcttggcggcgaatgggctgaccgcttctcgtgctttacgggtatcgcgctcccgatcgcagcgcacgccttctatcgcttcttgac 3100
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      3110      3120      3130      3140      3150      3160      3170      3180      3190      3200
3101 gagttcttctgagcgggactctggggttcgaaatgaccgaccaagcgcagcccaacctgccatcacgagatttcgattccaccggcgccttctatgaaag 3200
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      3210      3220      3230      3240      3250      3260      3270      3280      3290      3300
3201 gttgggcttcggaatcgttttccgggacccggctggatgatcctccagcgcggggatctcatgctggagtctctcgccaccctagggggaggttaact 3300
      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *      *
      3310      3320      3330      3340      3350      3360      3370      3380      3390      3400

```

* * * * *
3301 gaaacacggaaggagacaataaccggaaggaacccgcgctatgacggcaataaaaagacagaataaaaacgcacgggtgttggtcgtttgttcataaacgcg 3400
* * * * *
3410 3420 3430 3440 3450 3460 3470 3480 3490 3500
* * * * *
3401 gggttcgggtcccagggtggcactctgtcgataccccaccgagaccccatggggccaatacgcgccggttcttctcttttcccaccccccccccaag 3500
* * * * *
3510 3520 3530 3540 3550 3560 3570 3580 3590 3600
* * * * *
3501 ttcgggtgaaggccagggtcgcagccaacgctggggcggcaggccctgccatagcctcaggttactcatataacttttagattgatttaaaacttcat 3600
* * * * *
3610 3620 3630 3640 3650 3660 3670 3680 3690 3700
* * * * *
3601 ttttaatttaaaaggatctaggatgaagatcctttttgataatctcatgacaaaatcccttaacgtgagtttcggtccactgagcgtcagaccccgtag 3700
* * * * *
3710 3720 3730 3740 3750 3760 3770 3780 3790 3800
* * * * *
3701 aaaagatcaaaggatcctcttgagatccttttttctgcgcgtaatctgctgcttgcaaaaaaaaccaccgctaccagcgggtgtttgtttgccgga 3800
* * * * *
3810 3820 3830 3840 3850 3860 3870 3880 3890 3900
* * * * *
3801 tcaagagctaccaactctttttccgaaggttaactggcttcagcagagcgcagataccaaaactgtccttctagtgtagcgttagttaggccaccacttc 3900
* * * * *
3910 3920 3930 3940 3950 3960 3970 3980 3990 4000
* * * * *
3901 aagaactctgtagcaccgctacatacctcgtctgtaaatcctgttaccagtggtgctgccagtgccgataagtcgtgtcttaccgggttgactcaa 4000
* * * * *
4010 4020 4030 4040 4050 4060 4070 4080 4090 4100
* * * * *
4001 gacgatagttaccggataaggcgcagcggctcgggtgaacgggggttcgtgcacacagcccagccttgagcgaacgcctacaccgaactgagatacct 4100
* * * * *
4110 4120 4130 4140 4150 4160 4170 4180 4190 4200
* * * * *
4101 acagcgtgagctatgagaaagcgcacgcttcccgaaggagaaaggcggacaggtatccggtaagcggcaggtcggaaacaggagagcgcacgagggag 4200
* * * * *
4210 4220 4230 4240 4250 4260 4270 4280 4290 4300
* * * * *
4201 cttccaggggaaacgcctggtatctttatagtcctgtcgggtttcgcacacctctgacttgagcgtcgatttttgatgctcgtcagggggcgagcc 4300
* * * * *
4310 4320 4330 4340 4350 4360 4370 4380 4390 4400
* * * * *
4301 tatggaaaaacgccagcaacgcggcctttttacggttctctggccttttgctcactgttcttctcgtggttatcccctgattctgtgga 4400
* * * * *
4410 4420
* * * * *
4401 taaccgtattaccgcatgcat 4422