Testing average cycles for leadership strength 0  
Number of cycles run: 14446  
  
  
the leader1 dead using 6532  
the leader1 dead using 6532  
Number of cycles run: 50000  
  
  
the leader1 dead using 8053  
the leader1 dead using 8053  
the leader1 dead using 8053  
Number of cycles run: 26360  
  
  
the leader1 dead using 6242  
Number of cycles run: 50000  
  
  
the leader1 dead using 4219  
Number of cycles run: 50000  
  
  
the leader1 dead using 15213  
Number of cycles run: 18350  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6413  
the leader1 dead using 6413  
Number of cycles run: 28482  
  
  
the leader1 dead using 6884  
Number of cycles run: 11226  
  
  
the leader1 dead using 8733  
Number of cycles run: 9552  
  
  
the leader1 dead using 3365  
the leader1 dead using 3365  
Number of cycles run: 8907  
  
  
the leader1 dead using 1517  
the leader1 dead using 1517  
Number of cycles run: 40514  
  
  
the leader1 dead using 34064  
Number of cycles run: 50000  
  
  
the leader1 dead using 23760  
Number of cycles run: 25172  
  
  
the leader1 dead using 9465  
Number of cycles run: 24266  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3037  
the leader1 dead using 3037  
Number of cycles run: 18347  
  
  
the leader1 dead using 15510  
Number of cycles run: 50000  
  
  
the leader1 dead using 34458  
Number of cycles run: 50000  
  
  
the leader1 dead using 37891  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 40449  
the leader1 dead using 40449  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6489  
the leader1 dead using 6489  
Number of cycles run: 18667  
  
  
the leader1 dead using 1234  
the leader1 dead using 1234  
the leader1 dead using 1234  
Number of cycles run: 20375  
  
  
the leader1 dead using 4955  
the leader1 dead using 4955  
the leader1 dead using 4955  
Number of cycles run: 25975  
  
  
the leader1 dead using 6269  
the leader1 dead using 6269  
the leader1 dead using 6269  
the leader1 dead using 6269  
Number of cycles run: 14262  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 22427  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7021  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7738  
Number of cycles run: 45697  
  
  
the leader1 dead using 5824  
Number of cycles run: 16862  
  
  
the leader1 dead using 7061  
Number of cycles run: 29406  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 495  
Number of cycles run: 50000  
  
  
the leader1 dead using 3287  
the leader1 dead using 3287  
the leader1 dead using 3287  
Number of cycles run: 34988  
  
  
the leader1 dead using 12276  
Number of cycles run: 26668  
  
  
the leader1 dead using 10480  
Number of cycles run: 11731  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3197  
Number of cycles run: 25925  
  
  
the leader1 dead using 3524  
Number of cycles run: 50000  
  
  
the leader1 dead using 3373  
the leader1 dead using 3373  
the leader1 dead using 3373  
Number of cycles run: 18554  
  
  
the leader1 dead using 6770  
Number of cycles run: 9464  
  
  
the leader1 dead using 2672  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 0 is 35932  
standard diviation is 15683.26418440878  
Testing average cycles for leadership strength 0  
the leader1 dead using 6584  
Number of cycles run: 7535  
  
  
the leader1 dead using 8898  
Number of cycles run: 14950  
  
  
the leader1 dead using 7293  
Number of cycles run: 7293  
  
  
the leader1 dead using 5663  
the leader1 dead using 5663  
Number of cycles run: 50000  
  
  
the leader1 dead using 1740  
the leader1 dead using 1740  
Number of cycles run: 13702  
  
  
the leader1 dead using 2859  
Number of cycles run: 20874  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 17040  
the leader1 dead using 17040  
Number of cycles run: 35525  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6084  
the leader1 dead using 6084  
Number of cycles run: 9989  
  
  
the leader1 dead using 22913  
the leader1 dead using 22913  
Number of cycles run: 24927  
  
  
the leader1 dead using 12545  
Number of cycles run: 16138  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2708  
Number of cycles run: 50000  
  
  
the leader1 dead using 383  
the leader1 dead using 383  
Number of cycles run: 25112  
  
  
the leader1 dead using 2910  
the leader1 dead using 2910  
the leader1 dead using 2910  
Number of cycles run: 50000  
  
  
the leader1 dead using 10002  
the leader1 dead using 10002  
Number of cycles run: 28218  
  
  
Number of cycles run: 30534  
  
  
the leader1 dead using 2224  
Number of cycles run: 50000  
  
  
the leader1 dead using 10532  
the leader1 dead using 10532  
Number of cycles run: 22289  
  
  
the leader1 dead using 5521  
Number of cycles run: 15998  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6850  
Number of cycles run: 7242  
  
  
the leader1 dead using 16822  
the leader1 dead using 16822  
the leader1 dead using 16822  
the leader1 dead using 16822  
the leader1 dead using 16822  
Number of cycles run: 50000  
  
  
the leader1 dead using 4037  
Number of cycles run: 50000  
  
  
the leader1 dead using 5640  
Number of cycles run: 9280  
  
  
the leader1 dead using 7286  
Number of cycles run: 13332  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3773  
the leader1 dead using 3773  
Number of cycles run: 7547  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 12920  
the leader1 dead using 12920  
Number of cycles run: 15357  
  
  
Number of cycles run: 19132  
  
  
the leader1 dead using 3730  
Number of cycles run: 8865  
  
  
the leader1 dead using 5496  
Number of cycles run: 19064  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 39095  
  
  
the leader1 dead using 3785  
Number of cycles run: 9719  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6122  
Number of cycles run: 18226  
  
  
Number of cycles run: 32001  
  
  
the leader1 dead using 6344  
the leader1 dead using 6344  
the leader1 dead using 6344  
Number of cycles run: 19624  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2757  
Number of cycles run: 28924  
  
  
the leader1 dead using 6688  
Number of cycles run: 17765  
  
  
the leader1 dead using 6760  
the leader1 dead using 6760  
Number of cycles run: 9330  
  
  
the leader1 dead using 3095  
Number of cycles run: 15566  
  
  
Av cycles for leadership strength 0 is 30263  
standard diviation is 17072.924250570384  
Testing average cycles for leadership strength 0  
the leader1 dead using 18389  
Number of cycles run: 18389  
  
  
the leader1 dead using 8076  
Number of cycles run: 18229  
  
  
the leader1 dead using 1323  
Number of cycles run: 17116  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1816  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7127  
Number of cycles run: 20694  
  
  
the leader1 dead using 30643  
Number of cycles run: 50000  
  
  
the leader1 dead using 5421  
the leader1 dead using 5421  
the leader1 dead using 5421  
the leader1 dead using 5421  
the leader1 dead using 5421  
Number of cycles run: 42346  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7293  
Number of cycles run: 13698  
  
  
the leader1 dead using 7851  
Number of cycles run: 7851  
  
  
the leader1 dead using 6132  
the leader1 dead using 6132  
Number of cycles run: 10068  
  
  
the leader1 dead using 27962  
the leader1 dead using 27962  
Number of cycles run: 41143  
  
  
the leader1 dead using 32640  
Number of cycles run: 35829  
  
  
the leader1 dead using 12270  
the leader1 dead using 12270  
Number of cycles run: 21871  
  
  
Number of cycles run: 39623  
  
  
the leader1 dead using 1515  
the leader1 dead using 1515  
the leader1 dead using 1515  
Number of cycles run: 50000  
  
  
the leader1 dead using 12714  
the leader1 dead using 12714  
the leader1 dead using 12714  
Number of cycles run: 37871  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6134  
Number of cycles run: 19709  
  
  
Number of cycles run: 8125  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 10818  
  
  
the leader1 dead using 10432  
Number of cycles run: 25946  
  
  
the leader1 dead using 11340  
the leader1 dead using 11340  
the leader1 dead using 11340  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 24659  
the leader1 dead using 24659

Number of cycles run: 50000  
  
  
the leader1 dead using 9445  
the leader1 dead using 9445  
Number of cycles run: 19622  
  
  
the leader1 dead using 11757  
the leader1 dead using 11757  
Number of cycles run: 50000  
  
  
the leader1 dead using 6455  
the leader1 dead using 6455  
Number of cycles run: 9154  
  
  
the leader1 dead using 13382  
Number of cycles run: 50000  
  
  
the leader1 dead using 9365  
the leader1 dead using 9365  
Number of cycles run: 11161  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 20648  
  
  
Number of cycles run: 43631  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7716  
Number of cycles run: 50000  
  
  
the leader1 dead using 6783  
Number of cycles run: 7535  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 44923  
Number of cycles run: 46825  
  
  
the leader1 dead using 8760  
Number of cycles run: 9465  
  
  
the leader1 dead using 34205  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 23690  
Number of cycles run: 23690  
  
  
the leader1 dead using 8605  
Number of cycles run: 17884  
  
  
the leader1 dead using 7289  
the leader1 dead using 7289  
Number of cycles run: 19230  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5222  
the leader1 dead using 5222  
the leader1 dead using 5222  
Number of cycles run: 11110  
  
  
Av cycles for leadership strength 0 is 33585  
standard diviation is 16888.63566931978  
Testing average cycles for leadership strength 0  
Number of cycles run: 50000  
  
  
the leader1 dead using 8199  
the leader1 dead using 8199  
Number of cycles run: 26889  
  
  
the leader1 dead using 2337  
the leader1 dead using 2337  
the leader1 dead using 2337  
the leader1 dead using 2337  
the leader1 dead using 2337  
the leader1 dead using 2337  
Number of cycles run: 27258  
  
  
the leader1 dead using 7716  
Number of cycles run: 8885  
  
  
the leader1 dead using 6530  
the leader1 dead using 6530  
Number of cycles run: 24463  
  
  
the leader1 dead using 3916  
the leader1 dead using 3916  
the leader1 dead using 3916  
Number of cycles run: 8226  
  
  
the leader1 dead using 6215  
the leader1 dead using 6215  
the leader1 dead using 6215  
Number of cycles run: 21051  
  
  
the leader1 dead using 2873  
the leader1 dead using 2873  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7677  
Number of cycles run: 9075  
  
  
the leader1 dead using 4489  
Number of cycles run: 7094  
  
  
Number of cycles run: 18118  
  
  
the leader1 dead using 13807  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 21531  
the leader1 dead using 21531  
Number of cycles run: 30567  
  
  
the leader1 dead using 6436  
the leader1 dead using 6436  
the leader1 dead using 6436  
Number of cycles run: 10973  
  
  
the leader1 dead using 5103  
the leader1 dead using 5103  
the leader1 dead using 5103  
the leader1 dead using 5103  
Number of cycles run: 35827  
  
  
the leader1 dead using 33841  
Number of cycles run: 50000  
  
  
the leader1 dead using 3099  
Number of cycles run: 28719  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 9080  
Number of cycles run: 21982  
  
  
the leader1 dead using 7120  
the leader1 dead using 7120  
Number of cycles run: 21684  
  
  
the leader1 dead using 1954  
the leader1 dead using 1954  
Number of cycles run: 9530  
  
  
the leader1 dead using 1032  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5673  
the leader1 dead using 5673  
Number of cycles run: 11443  
  
  
the leader1 dead using 18440  
the leader1 dead using 18440  
the leader1 dead using 18440  
the leader1 dead using 18440  
Number of cycles run: 29525  
  
  
the leader1 dead using 3459  
the leader1 dead using 3459  
the leader1 dead using 3459  
Number of cycles run: 21498  
  
  
the leader1 dead using 4757  
the leader1 dead using 4757  
Number of cycles run: 23550  
  
  
the leader1 dead using 7657  
Number of cycles run: 23836  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5704  
the leader1 dead using 5704  
the leader1 dead using 5704  
Number of cycles run: 27435  
  
  
the leader1 dead using 926  
the leader1 dead using 926  
the leader1 dead using 926  
the leader1 dead using 926  
the leader1 dead using 926  
Number of cycles run: 43489  
  
  
the leader1 dead using 5058  
the leader1 dead using 5058  
Number of cycles run: 16964  
  
  
the leader1 dead using 7316  
Number of cycles run: 22129  
  
  
the leader1 dead using 6279  
the leader1 dead using 6279  
Number of cycles run: 48934  
  
  
Number of cycles run: 19480  
  
  
the leader1 dead using 6982  
Number of cycles run: 50000  
  
  
the leader1 dead using 2295  
the leader1 dead using 2295  
the leader1 dead using 2295  
Number of cycles run: 14280  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 24039  
the leader1 dead using 24039  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 10741  
the leader1 dead using 10741  
Number of cycles run: 11341  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6603  
the leader1 dead using 6603  
Number of cycles run: 21293  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 0 is 32910  
standard diviation is 16121.693701927707  
Testing average cycles for leadership strength 0  
the leader1 dead using 6237  
the leader1 dead using 6237  
the leader1 dead using 6237  
Number of cycles run: 42389  
  
  
the leader1 dead using 1991  
the leader1 dead using 1991  
Number of cycles run: 9330  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4145  
the leader1 dead using 4145  
Number of cycles run: 7481  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6496  
Number of cycles run: 17145  
  
  
the leader1 dead using 28809  
the leader1 dead using 28809  
Number of cycles run: 32086  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2934  
the leader1 dead using 2934  
the leader1 dead using 2934  
Number of cycles run: 31481  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4427  
the leader1 dead using 4427  
Number of cycles run: 7900  
  
  
Number of cycles run: 9669  
  
  
the leader1 dead using 5645  
Number of cycles run: 39672  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6060  
Number of cycles run: 18549  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 10006  
Number of cycles run: 21925  
  
  
the leader1 dead using 5631  
the leader1 dead using 5631  
the leader1 dead using 5631  
Number of cycles run: 10219  
  
  
the leader1 dead using 2869  
the leader1 dead using 2869  
Number of cycles run: 50000  
  
  
the leader1 dead using 21942  
Number of cycles run: 50000  
  
  
the leader1 dead using 11264  
the leader1 dead using 11264  
Number of cycles run: 11794  
  
  
the leader1 dead using 16813  
Number of cycles run: 16813  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 16464  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 12904  
  
  
Number of cycles run: 21191  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3678  
the leader1 dead using 3678  
the leader1 dead using 3678  
Number of cycles run: 10389  
  
  
the leader1 dead using 5227  
the leader1 dead using 5227  
the leader1 dead using 5227  
Number of cycles run: 12361  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 29746  
Number of cycles run: 33423  
  
  
the leader1 dead using 7747  
Number of cycles run: 9426  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3440  
the leader1 dead using 3440  
the leader1 dead using 3440  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 37048  
Number of cycles run: 37048  
  
  
the leader1 dead using 374  
Number of cycles run: 50000  
  
  
Number of cycles run: 36521  
  
  
the leader1 dead using 547  
the leader1 dead using 547  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 0 is 36323  
standard diviation is 16857.474474946397  
Testing average cycles for leadership strength 0  
Number of cycles run: 23726  
  
  
the leader1 dead using 4630  
the leader1 dead using 4630  
Number of cycles run: 28520

the leader1 dead using 15669  
Number of cycles run: 19510  
  
  
Number of cycles run: 39256  
  
  
the leader1 dead using 19440  
the leader1 dead using 19440  
Number of cycles run: 22041  
  
  
the leader1 dead using 10928  
Number of cycles run: 14559  
  
  
Number of cycles run: 11312  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 9246  
the leader1 dead using 9246  
Number of cycles run: 11497  
  
  
the leader1 dead using 2359  
the leader1 dead using 2359  
Number of cycles run: 50000  
  
  
the leader1 dead using 6190  
the leader1 dead using 6190  
Number of cycles run: 50000  
  
  
the leader1 dead using 9841  
Number of cycles run: 20198  
  
  
the leader1 dead using 12298  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 11609  
Number of cycles run: 50000  
  
  
the leader1 dead using 6806  
the leader1 dead using 6806  
Number of cycles run: 50000  
  
  
the leader1 dead using 42122  
the leader1 dead using 42122  
Number of cycles run: 50000  
  
  
the leader1 dead using 5111  
the leader1 dead using 5111  
Number of cycles run: 7574  
  
  
the leader1 dead using 5557  
the leader1 dead using 5557  
Number of cycles run: 50000  
  
  
the leader1 dead using 10066  
Number of cycles run: 10759  
  
  
the leader1 dead using 7170  
the leader1 dead using 7170  
Number of cycles run: 10365  
  
  
the leader1 dead using 4803  
the leader1 dead using 4803  
Number of cycles run: 50000  
  
  
the leader1 dead using 10901  
the leader1 dead using 10901  
the leader1 dead using 10901  
Number of cycles run: 29162  
  
  
the leader1 dead using 8521  
Number of cycles run: 30706  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6781  
the leader1 dead using 6781  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 554  
Number of cycles run: 10384  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2251  
Number of cycles run: 50000  
  
  
Number of cycles run: 27666  
  
  
the leader1 dead using 2441  
the leader1 dead using 2441  
Number of cycles run: 50000  
  
  
the leader1 dead using 42032  
Number of cycles run: 42032  
  
  
the leader1 dead using 8706  
the leader1 dead using 8706  
the leader1 dead using 8706  
Number of cycles run: 31705  
  
  
the leader1 dead using 8716  
the leader1 dead using 8716  
Number of cycles run: 18362  
  
  
the leader1 dead using 5549  
the leader1 dead using 5549  
the leader1 dead using 5549  
the leader1 dead using 5549  
the leader1 dead using 5549  
Number of cycles run: 19776  
  
  
the leader1 dead using 6094  
the leader1 dead using 6094  
Number of cycles run: 20989  
  
  
the leader1 dead using 4135  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 10644  
the leader1 dead using 10644  
the leader1 dead using 10644  
the leader1 dead using 10644  
Number of cycles run: 38988  
  
  
the leader1 dead using 2615  
Number of cycles run: 50000  
  
  
the leader1 dead using 537  
the leader1 dead using 537  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5506  
the leader1 dead using 5506  
Number of cycles run: 9123  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7026  
the leader1 dead using 7026  
Number of cycles run: 17152  
  
  
the leader1 dead using 11536  
Number of cycles run: 32716  
  
  
the leader1 dead using 6439  
Number of cycles run: 10725  
  
  
Av cycles for leadership strength 0 is 35176  
standard diviation is 16141.405432082336  
Testing average cycles for leadership strength 0  
Number of cycles run: 50000  
  
  
the leader1 dead using 10685  
Number of cycles run: 50000  
  
  
the leader1 dead using 4311  
the leader1 dead using 4311  
Number of cycles run: 20676  
  
  
the leader1 dead using 16091  
Number of cycles run: 16982  
  
  
the leader1 dead using 8678  
the leader1 dead using 8678  
Number of cycles run: 14052  
  
  
the leader1 dead using 575  
the leader1 dead using 575  
the leader1 dead using 575  
the leader1 dead using 575  
Number of cycles run: 39728  
  
  
Number of cycles run: 41605  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 17677  
the leader1 dead using 17677  
Number of cycles run: 28075  
  
  
the leader1 dead using 2651  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5201  
the leader1 dead using 5201  
Number of cycles run: 14341  
  
  
the leader1 dead using 43590  
Number of cycles run: 50000  
  
  
the leader1 dead using 7747  
the leader1 dead using 7747  
Number of cycles run: 18960  
  
  
the leader1 dead using 6913  
Number of cycles run: 21706  
  
  
the leader1 dead using 5737  
Number of cycles run: 17742  
  
  
Number of cycles run: 18438  
  
  
the leader1 dead using 10476  
Number of cycles run: 50000  
  
  
Number of cycles run: 23280  
  
  
the leader1 dead using 402  
the leader1 dead using 402  
the leader1 dead using 402  
Number of cycles run: 41539  
  
  
the leader1 dead using 4019  
the leader1 dead using 4019  
Number of cycles run: 18889  
  
  
the leader1 dead using 2358  
the leader1 dead using 2358  
Number of cycles run: 50000  
  
  
the leader1 dead using 7125  
the leader1 dead using 7125  
Number of cycles run: 18296  
  
  
the leader1 dead using 2457  
the leader1 dead using 2457  
Number of cycles run: 50000  
  
  
the leader1 dead using 4887  
Number of cycles run: 14348  
  
  
the leader1 dead using 8144  
the leader1 dead using 8144  
Number of cycles run: 16615  
  
  
the leader1 dead using 7708  
Number of cycles run: 9128  
  
  
the leader1 dead using 17020  
the leader1 dead using 17020  
Number of cycles run: 21726  
  
  
the leader1 dead using 18232  
Number of cycles run: 18232  
  
  
the leader1 dead using 6536  
the leader1 dead using 6536  
Number of cycles run: 19552  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 18635  
  
  
the leader1 dead using 4175  
the leader1 dead using 4175  
Number of cycles run: 23921  
  
  
the leader1 dead using 6281  
Number of cycles run: 11247  
  
  
the leader1 dead using 12009  
Number of cycles run: 13902  
  
  
the leader1 dead using 8664  
the leader1 dead using 8664  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1607  
the leader1 dead using 1607  
Number of cycles run: 27925  
  
  
the leader1 dead using 3409  
the leader1 dead using 3409  
Number of cycles run: 25757  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3795  
the leader1 dead using 3795  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4563  
the leader1 dead using 4563  
Number of cycles run: 50000  
  
  
the leader1 dead using 7647  
Number of cycles run: 21325  
  
  
the leader1 dead using 5836  
Number of cycles run: 50000  
  
  
the leader1 dead using 4605  
the leader1 dead using 4605  
Number of cycles run: 18833  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 22736  
the leader1 dead using 22736  
the leader1 dead using 22736  
Number of cycles run: 23717  
  
  
the leader1 dead using 3944  
the leader1 dead using 3944  
Number of cycles run: 7044  
  
  
Av cycles for leadership strength 0 is 31924  
standard diviation is 15687.45531378626  
Testing average cycles for leadership strength 0  
the leader1 dead using 7512  
Number of cycles run: 7512  
  
  
the leader1 dead using 4855  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 34148  
the leader1 dead using 34148  
Number of cycles run: 35494  
  
  
the leader1 dead using 983  
the leader1 dead using 983  
Number of cycles run: 15474  
  
  
the leader1 dead using 2136  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6623  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 8128  
Number of cycles run: 25942  
  
  
the leader1 dead using 5445  
Number of cycles run: 50000  
  
  
the leader1 dead using 6598  
the leader1 dead using 6598  
Number of cycles run: 22221  
  
  
Number of cycles run: 9580  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7605  
Number of cycles run: 7605  
  
  
the leader1 dead using 3263  
the leader1 dead using 3263  
Number of cycles run: 50000  
  
  
the leader1 dead using 12029  
Number of cycles run: 18119  
  
  
the leader1 dead using 5817  
the leader1 dead using 5817  
Number of cycles run: 14019  
  
  
the leader1 dead using 5453  
Number of cycles run: 8392

Number of cycles run: 50000  
  
  
the leader1 dead using 2101  
the leader1 dead using 2101  
the leader1 dead using 2101  
the leader1 dead using 2101  
Number of cycles run: 39894  
  
  
the leader1 dead using 22120  
the leader1 dead using 22120  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4169  
the leader1 dead using 4169  
the leader1 dead using 4169  
the leader1 dead using 4169  
Number of cycles run: 12577  
  
  
the leader1 dead using 16193  
the leader1 dead using 16193  
Number of cycles run: 44812  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7105  
Number of cycles run: 24181  
  
  
the leader1 dead using 6034  
Number of cycles run: 24233  
  
  
the leader1 dead using 2173  
Number of cycles run: 50000  
  
  
the leader1 dead using 7344  
Number of cycles run: 26255  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7763  
Number of cycles run: 12143  
  
  
the leader1 dead using 6917  
the leader1 dead using 6917  
the leader1 dead using 6917  
Number of cycles run: 26033  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2929  
the leader1 dead using 2929  
the leader1 dead using 2929  
Number of cycles run: 26263  
  
  
the leader1 dead using 13129  
the leader1 dead using 13129  
the leader1 dead using 13129  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5437  
the leader1 dead using 5437  
the leader1 dead using 5437  
the leader1 dead using 5437  
Number of cycles run: 50000  
  
  
the leader1 dead using 6486  
Number of cycles run: 50000  
  
  
the leader1 dead using 5712  
the leader1 dead using 5712  
the leader1 dead using 5712  
the leader1 dead using 5712  
the leader1 dead using 5712  
Number of cycles run: 10114  
  
  
the leader1 dead using 16702  
Number of cycles run: 50000  
  
  
the leader1 dead using 31334  
the leader1 dead using 31334  
Number of cycles run: 33972  
  
  
the leader1 dead using 16571  
Number of cycles run: 18081  
  
  
Av cycles for leadership strength 0 is 37258  
standard diviation is 16146.994313645433  
Testing average cycles for leadership strength 0  
Number of cycles run: 12460  
  
  
the leader1 dead using 13377  
Number of cycles run: 41784  
  
  
the leader1 dead using 4977  
the leader1 dead using 4977  
Number of cycles run: 22163  
  
  
the leader1 dead using 8998  
Number of cycles run: 9800  
  
  
the leader1 dead using 3482  
Number of cycles run: 50000  
  
  
the leader1 dead using 7501  
the leader1 dead using 7501  
the leader1 dead using 7501  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 12357  
Number of cycles run: 50000  
  
  
the leader1 dead using 7548  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4847  
the leader1 dead using 4847  
Number of cycles run: 18961  
  
  
the leader1 dead using 2983  
Number of cycles run: 14308  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 10432  
Number of cycles run: 23165  
  
  
the leader1 dead using 23346  
Number of cycles run: 24344  
  
  
the leader1 dead using 1275  
the leader1 dead using 1275  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6550  
the leader1 dead using 6550  
the leader1 dead using 6550  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3302  
the leader1 dead using 3302  
the leader1 dead using 3302  
Number of cycles run: 9560  
  
  
the leader1 dead using 9665  
Number of cycles run: 24837  
  
  
Number of cycles run: 6656  
  
  
the leader1 dead using 5634  
Number of cycles run: 7249  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6062  
Number of cycles run: 50000  
  
  
the leader1 dead using 3301  
the leader1 dead using 3301  
Number of cycles run: 50000  
  
  
the leader1 dead using 2876  
the leader1 dead using 2876  
Number of cycles run: 50000  
  
  
the leader1 dead using 2377  
the leader1 dead using 2377  
Number of cycles run: 50000  
  
  
Number of cycles run: 8164  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3572  
the leader1 dead using 3572  
the leader1 dead using 3572  
the leader1 dead using 3572  
Number of cycles run: 10234  
  
  
the leader1 dead using 499  
the leader1 dead using 499  
Number of cycles run: 50000  
  
  
the leader1 dead using 5424  
the leader1 dead using 5424  
Number of cycles run: 8618  
  
  
the leader1 dead using 556  
Number of cycles run: 39491  
  
  
the leader1 dead using 7884  
the leader1 dead using 7884  
Number of cycles run: 12059  
  
  
the leader1 dead using 2545  
the leader1 dead using 2545  
the leader1 dead using 2545  
Number of cycles run: 13058  
  
  
the leader1 dead using 9918  
the leader1 dead using 9918  
the leader1 dead using 9918  
Number of cycles run: 17475  
  
  
the leader1 dead using 2188  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5424  
the leader1 dead using 5424  
Number of cycles run: 50000  
  
  
Number of cycles run: 16954  
  
  
the leader1 dead using 6447  
the leader1 dead using 6447  
the leader1 dead using 6447  
Number of cycles run: 13291  
  
  
the leader1 dead using 9534  
Number of cycles run: 50000  
  
  
the leader1 dead using 4622  
Number of cycles run: 50000  
  
  
the leader1 dead using 7730  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5479  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 0 is 36092  
standard diviation is 17637.927754271415  
Testing average cycles for leadership strength 0  
the leader1 dead using 2850  
the leader1 dead using 2850  
Number of cycles run: 32045  
  
  
the leader1 dead using 5023  
the leader1 dead using 5023  
the leader1 dead using 5023  
Number of cycles run: 27706  
  
  
the leader1 dead using 18841  
Number of cycles run: 50000  
  
  
the leader1 dead using 1875  
Number of cycles run: 8183  
  
  
the leader1 dead using 10345  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 472  
Number of cycles run: 50000  
  
  
Number of cycles run: 35895  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7575  
Number of cycles run: 17347  
  
  
the leader1 dead using 17014  
the leader1 dead using 17014  
Number of cycles run: 18823  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 13056  
the leader1 dead using 13056  
the leader1 dead using 13056  
Number of cycles run: 23754  
  
  
Number of cycles run: 25746  
  
  
the leader1 dead using 7029  
the leader1 dead using 7029  
Number of cycles run: 19170  
  
  
the leader1 dead using 5418  
the leader1 dead using 5418  
Number of cycles run: 38266  
  
  
the leader1 dead using 3067  
the leader1 dead using 3067  
Number of cycles run: 20480  
  
  
the leader1 dead using 3947  
the leader1 dead using 3947  
the leader1 dead using 3947  
the leader1 dead using 3947  
Number of cycles run: 42827  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6521  
the leader1 dead using 6521  
Number of cycles run: 9349  
  
  
Number of cycles run: 39947  
  
  
the leader1 dead using 699  
the leader1 dead using 699  
Number of cycles run: 50000  
  
  
the leader1 dead using 10607  
Number of cycles run: 30279  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 41735  
Number of cycles run: 41735  
  
  
the leader1 dead using 1219  
Number of cycles run: 25157  
  
  
the leader1 dead using 8028  
the leader1 dead using 8028  
the leader1 dead using 8028  
Number of cycles run: 47376  
  
  
the leader1 dead using 30645  
the leader1 dead using 30645  
Number of cycles run: 50000  
  
  
the leader1 dead using 8186  
Number of cycles run: 8186  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 11999  
the leader1 dead using 11999  
the leader1 dead using 11999  
Number of cycles run: 41939  
  
  
the leader1 dead using 6944  
the leader1 dead using 6944  
the leader1 dead using 6944  
Number of cycles run: 11852  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6734  
Number of cycles run: 7074  
  
  
the leader1 dead using 2114  
the leader1 dead using 2114  
Number of cycles run: 50000  
  
  
the leader1 dead using 8955  
the leader1 dead using 8955  
the leader1 dead using 8955  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 12717  
Number of cycles run: 12717  
  
  
the leader1 dead using 781  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6110

the leader1 dead using 6110  
the leader1 dead using 6110  
Number of cycles run: 18181  
  
  
the leader1 dead using 31026  
Number of cycles run: 31026  
  
  
the leader1 dead using 1991  
the leader1 dead using 1991  
Number of cycles run: 50000  
  
  
the leader1 dead using 7836  
Number of cycles run: 24814  
  
  
Number of cycles run: 13559  
  
  
the leader1 dead using 379  
Number of cycles run: 50000  
  
  
the leader1 dead using 8336  
the leader1 dead using 8336  
Number of cycles run: 50000  
  
  
the leader1 dead using 13120  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 0 is 36468  
standard diviation is 15392.46477539035