Testing average cycles for leadership strength 1.5  
the leader1 dead using 727  
Number of cycles run: 18653  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 7095  
  
  
Number of cycles run: 12619  
  
  
the leader1 dead using 772  
the leader1 dead using 772  
the leader1 dead using 772  
Number of cycles run: 50000  
  
  
the leader1 dead using 34348  
Number of cycles run: 34348  
  
  
the leader1 dead using 1900  
the leader1 dead using 1900  
Number of cycles run: 10504  
  
  
the leader1 dead using 2184  
Number of cycles run: 7122  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2161  
the leader1 dead using 2161  
Number of cycles run: 11735  
  
  
Number of cycles run: 9978  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 441  
the leader1 dead using 441  
the leader1 dead using 441  
Number of cycles run: 10498  
  
  
Number of cycles run: 11006  
  
  
Number of cycles run: 7134  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6735  
the leader1 dead using 6735  
the leader1 dead using 6735  
the leader1 dead using 6735  
Number of cycles run: 18439  
  
  
the leader1 dead using 3076  
the leader1 dead using 3076  
the leader1 dead using 3076  
the leader1 dead using 3076  
the leader1 dead using 3076  
Number of cycles run: 7200  
  
  
the leader1 dead using 1087  
Number of cycles run: 40839  
  
  
Number of cycles run: 25691  
  
  
the leader1 dead using 3090  
Number of cycles run: 8573  
  
  
the leader1 dead using 458  
the leader1 dead using 458  
the leader1 dead using 458  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 392  
the leader1 dead using 392  
Number of cycles run: 50000  
  
  
the leader1 dead using 4161  
Number of cycles run: 8101  
  
  
the leader1 dead using 5529  
the leader1 dead using 5529  
Number of cycles run: 7126  
  
  
Number of cycles run: 22816  
  
  
the leader1 dead using 3231  
Number of cycles run: 7856  
  
  
the leader1 dead using 3722  
the leader1 dead using 3722  
Number of cycles run: 6146  
  
  
Number of cycles run: 19194  
  
  
the leader1 dead using 1342  
the leader1 dead using 1342  
the leader1 dead using 1342  
Number of cycles run: 7946  
  
  
the leader1 dead using 8387  
Number of cycles run: 8387  
  
  
the leader1 dead using 8471  
Number of cycles run: 8471  
  
  
Number of cycles run: 13129  
  
  
the leader1 dead using 1643  
the leader1 dead using 1643  
Number of cycles run: 8789  
  
  
the leader1 dead using 1848  
the leader1 dead using 1848  
Number of cycles run: 8384  
  
  
the leader1 dead using 4863  
the leader1 dead using 4863  
the leader1 dead using 4863  
Number of cycles run: 8036  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5434  
Number of cycles run: 5651  
  
  
the leader1 dead using 4157  
the leader1 dead using 4157  
Number of cycles run: 7437  
  
  
the leader1 dead using 6476  
Number of cycles run: 12351  
  
  
the leader1 dead using 20232  
Number of cycles run: 25334  
  
  
Number of cycles run: 6638  
  
  
the leader1 dead using 4379  
the leader1 dead using 4379  
Number of cycles run: 6736  
  
  
Number of cycles run: 31391  
  
  
the leader1 dead using 3241  
Number of cycles run: 6805  
  
  
Number of cycles run: 8907  
  
  
Number of cycles run: 7463  
  
  
the leader1 dead using 2390  
the leader1 dead using 2390  
the leader1 dead using 2390  
Number of cycles run: 9090  
  
  
the leader1 dead using 9523  
Number of cycles run: 9523  
  
  
Av cycles for leadership strength 1.5 is 19262  
standard diviation is 16390.58958445737  
Testing average cycles for leadership strength 1.5  
the leader1 dead using 1227  
Number of cycles run: 26542  
  
  
the leader1 dead using 2470  
the leader1 dead using 2470  
Number of cycles run: 6714  
  
  
the leader1 dead using 2745  
the leader1 dead using 2745  
the leader1 dead using 2745  
Number of cycles run: 11831  
  
  
the leader1 dead using 7815  
the leader1 dead using 7815  
the leader1 dead using 7815  
the leader1 dead using 7815  
Number of cycles run: 20793  
  
  
the leader1 dead using 528  
Number of cycles run: 50000  
  
  
the leader1 dead using 1286  
the leader1 dead using 1286  
Number of cycles run: 13857  
  
  
the leader1 dead using 2152  
the leader1 dead using 2152  
the leader1 dead using 2152  
Number of cycles run: 7238  
  
  
Number of cycles run: 13501  
  
  
the leader1 dead using 6288  
Number of cycles run: 7226  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 8718  
  
  
the leader1 dead using 9081  
the leader1 dead using 9081  
the leader1 dead using 9081  
Number of cycles run: 10764  
  
  
the leader1 dead using 5355  
the leader1 dead using 5355  
Number of cycles run: 10548  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1277  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 9292  
Number of cycles run: 9292  
  
  
the leader1 dead using 49910  
Number of cycles run: 49910  
  
  
the leader1 dead using 5200  
the leader1 dead using 5200  
Number of cycles run: 8210  
  
  
the leader1 dead using 5426  
Number of cycles run: 7962  
  
  
the leader1 dead using 3457  
the leader1 dead using 3457  
the leader1 dead using 3457  
Number of cycles run: 8133  
  
  
the leader1 dead using 2910  
Number of cycles run: 7681  
  
  
the leader1 dead using 1443  
Number of cycles run: 9048  
  
  
Number of cycles run: 7053  
  
  
the leader1 dead using 18770  
Number of cycles run: 50000  
  
  
the leader1 dead using 5698  
the leader1 dead using 5698  
Number of cycles run: 8930  
  
  
Number of cycles run: 25680  
  
  
the leader1 dead using 1854  
the leader1 dead using 1854  
Number of cycles run: 13187  
  
  
the leader1 dead using 7218  
Number of cycles run: 7634  
  
  
the leader1 dead using 503  
the leader1 dead using 503  
the leader1 dead using 503  
the leader1 dead using 503  
Number of cycles run: 7328  
  
  
Number of cycles run: 10461  
  
  
Number of cycles run: 8532  
  
  
the leader1 dead using 4268  
Number of cycles run: 50000  
  
  
the leader1 dead using 509  
the leader1 dead using 509  
the leader1 dead using 509  
Number of cycles run: 50000  
  
  
Number of cycles run: 6407  
  
  
the leader1 dead using 5186  
Number of cycles run: 7196  
  
  
the leader1 dead using 2897  
the leader1 dead using 2897  
Number of cycles run: 8963  
  
  
the leader1 dead using 671  
Number of cycles run: 14229  
  
  
the leader1 dead using 3015  
Number of cycles run: 7337  
  
  
the leader1 dead using 397  
the leader1 dead using 397  
Number of cycles run: 6768  
  
  
the leader1 dead using 2503  
the leader1 dead using 2503  
Number of cycles run: 5752  
  
  
the leader1 dead using 2357  
the leader1 dead using 2357  
Number of cycles run: 8209  
  
  
the leader1 dead using 1629  
Number of cycles run: 9092  
  
  
the leader1 dead using 503  
the leader1 dead using 503  
the leader1 dead using 503  
the leader1 dead using 503  
Number of cycles run: 38536  
  
  
the leader1 dead using 9517  
the leader1 dead using 9517  
Number of cycles run: 47054  
  
  
Number of cycles run: 21162  
  
  
the leader1 dead using 4947  
the leader1 dead using 4947  
Number of cycles run: 8301  
  
  
Number of cycles run: 26582  
  
  
Number of cycles run: 7563  
  
  
the leader1 dead using 1228  
Number of cycles run: 6717  
  
  
Av cycles for leadership strength 1.5 is 19132  
standard diviation is 16694.150379258783  
Testing average cycles for leadership strength 1.5  
Number of cycles run: 7112  
  
  
the leader1 dead using 4756  
Number of cycles run: 8126  
  
  
the leader1 dead using 880  
Number of cycles run: 15927  
  
  
Number of cycles run: 6710  
  
  
the leader1 dead using 4377  
Number of cycles run: 7427  
  
  
Number of cycles run: 7576  
  
  
the leader1 dead using 5349  
Number of cycles run: 6756  
  
  
the leader1 dead using 418  
the leader1 dead using 418  
Number of cycles run: 50000  
  
  
the leader1 dead using 6328  
the leader1 dead using 6328  
Number of cycles run: 7649  
  
  
the leader1 dead using 3531  
Number of cycles run: 6525  
  
  
Number of cycles run: 8032  
  
  
the leader1 dead using 478  
the leader1 dead using 478  
the leader1 dead using 478  
the leader1 dead using 478  
Number of cycles run: 9311  
  
  
the leader1 dead using 28637  
Number of cycles run: 50000  
  
  
the leader1 dead using 1532  
the leader1 dead using 1532  
Number of cycles run: 7262  
  
  
the leader1 dead using 627  
Number of cycles run: 6686  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1800  
the leader1 dead using 1800  
Number of cycles run: 6289  
  
  
the leader1 dead using 3176  
the leader1 dead using 3176  
Number of cycles run: 6657  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 9057  
  
  
the leader1 dead using 7396  
Number of cycles run: 11297  
  
  
Number of cycles run: 50000

the leader1 dead using 407  
the leader1 dead using 407  
Number of cycles run: 6986  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 8252  
the leader1 dead using 8252  
the leader1 dead using 8252  
Number of cycles run: 10616  
  
  
the leader1 dead using 1604  
the leader1 dead using 1604  
the leader1 dead using 1604  
the leader1 dead using 1604  
the leader1 dead using 1604  
Number of cycles run: 6674  
  
  
the leader1 dead using 495  
Number of cycles run: 9950  
  
  
the leader1 dead using 6771  
Number of cycles run: 11041  
  
  
the leader1 dead using 3548  
the leader1 dead using 3548  
Number of cycles run: 6797  
  
  
the leader1 dead using 1793  
the leader1 dead using 1793  
the leader1 dead using 1793  
Number of cycles run: 6400  
  
  
the leader1 dead using 42214  
Number of cycles run: 42486  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6672  
the leader1 dead using 6672  
Number of cycles run: 10151  
  
  
the leader1 dead using 418  
the leader1 dead using 418  
Number of cycles run: 9460  
  
  
the leader1 dead using 3673  
the leader1 dead using 3673  
Number of cycles run: 10637  
  
  
the leader1 dead using 907  
the leader1 dead using 907  
Number of cycles run: 5203  
  
  
Number of cycles run: 6091  
  
  
the leader1 dead using 493  
the leader1 dead using 493  
Number of cycles run: 9565  
  
  
the leader1 dead using 5132  
the leader1 dead using 5132  
the leader1 dead using 5132  
the leader1 dead using 5132  
Number of cycles run: 7170  
  
  
the leader1 dead using 600  
the leader1 dead using 600  
the leader1 dead using 600  
Number of cycles run: 7098  
  
  
the leader1 dead using 4837  
the leader1 dead using 4837  
Number of cycles run: 6068  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1983  
the leader1 dead using 1983  
the leader1 dead using 1983  
the leader1 dead using 1983  
Number of cycles run: 6534  
  
  
Number of cycles run: 10106  
  
  
the leader1 dead using 3525  
the leader1 dead using 3525  
the leader1 dead using 3525  
the leader1 dead using 3525  
the leader1 dead using 3525  
Number of cycles run: 6638  
  
  
the leader1 dead using 492  
the leader1 dead using 492  
Number of cycles run: 10316  
  
  
the leader1 dead using 533  
the leader1 dead using 533  
Number of cycles run: 18614  
  
  
the leader1 dead using 1914  
Number of cycles run: 7147  
  
  
Av cycles for leadership strength 1.5 is 17402  
standard diviation is 17312.03976523452  
Testing average cycles for leadership strength 1.5  
Number of cycles run: 6173  
  
  
the leader1 dead using 4787  
the leader1 dead using 4787  
Number of cycles run: 6557  
  
  
Number of cycles run: 7316  
  
  
the leader1 dead using 3092  
the leader1 dead using 3092  
the leader1 dead using 3092  
Number of cycles run: 7379  
  
  
the leader1 dead using 396  
the leader1 dead using 396  
the leader1 dead using 396  
the leader1 dead using 396  
Number of cycles run: 8279  
  
  
the leader1 dead using 7625  
the leader1 dead using 7625  
Number of cycles run: 8260  
  
  
the leader1 dead using 3480  
Number of cycles run: 7558  
  
  
the leader1 dead using 666  
the leader1 dead using 666  
the leader1 dead using 666  
Number of cycles run: 4929  
  
  
Number of cycles run: 7056  
  
  
the leader1 dead using 2397  
the leader1 dead using 2397  
Number of cycles run: 7217  
  
  
the leader1 dead using 24243  
Number of cycles run: 26861  
  
  
the leader1 dead using 777  
the leader1 dead using 777  
Number of cycles run: 19709  
  
  
the leader1 dead using 5523  
Number of cycles run: 7053  
  
  
the leader1 dead using 470  
Number of cycles run: 17411  
  
  
Number of cycles run: 15654  
  
  
the leader1 dead using 2272  
the leader1 dead using 2272  
Number of cycles run: 6598  
  
  
the leader1 dead using 8620  
the leader1 dead using 8620  
the leader1 dead using 8620  
Number of cycles run: 50000  
  
  
Number of cycles run: 8484  
  
  
the leader1 dead using 10670  
Number of cycles run: 10928  
  
  
the leader1 dead using 1445  
Number of cycles run: 6181  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2462  
the leader1 dead using 2462  
the leader1 dead using 2462  
Number of cycles run: 6750  
  
  
the leader1 dead using 681  
the leader1 dead using 681  
Number of cycles run: 38919  
  
  
the leader1 dead using 967  
the leader1 dead using 967  
the leader1 dead using 967  
Number of cycles run: 50000  
  
  
Number of cycles run: 16196  
  
  
Number of cycles run: 38504  
  
  
Number of cycles run: 6238  
  
  
the leader1 dead using 2650  
the leader1 dead using 2650  
the leader1 dead using 2650  
the leader1 dead using 2650  
the leader1 dead using 2650  
Number of cycles run: 8915  
  
  
Number of cycles run: 10200  
  
  
the leader1 dead using 3552  
Number of cycles run: 6627  
  
  
the leader1 dead using 5982  
the leader1 dead using 5982  
Number of cycles run: 9583  
  
  
the leader1 dead using 523  
the leader1 dead using 523  
Number of cycles run: 9575  
  
  
the leader1 dead using 4264  
the leader1 dead using 4264  
Number of cycles run: 4981  
  
  
the leader1 dead using 476  
the leader1 dead using 476  
Number of cycles run: 13075  
  
  
the leader1 dead using 4170  
the leader1 dead using 4170  
the leader1 dead using 4170  
Number of cycles run: 6991  
  
  
the leader1 dead using 2127  
the leader1 dead using 2127  
Number of cycles run: 10809  
  
  
the leader1 dead using 4276  
the leader1 dead using 4276  
Number of cycles run: 8987  
  
  
Number of cycles run: 11812  
  
  
the leader1 dead using 9303  
the leader1 dead using 9303  
the leader1 dead using 9303  
Number of cycles run: 11466  
  
  
the leader1 dead using 795  
the leader1 dead using 795  
the leader1 dead using 795  
the leader1 dead using 795  
Number of cycles run: 8466  
  
  
the leader1 dead using 582  
Number of cycles run: 6958  
  
  
the leader1 dead using 18552  
the leader1 dead using 18552  
Number of cycles run: 18758  
  
  
the leader1 dead using 7064  
Number of cycles run: 7064  
  
  
the leader1 dead using 3149  
the leader1 dead using 3149  
the leader1 dead using 3149  
the leader1 dead using 3149  
the leader1 dead using 3149  
Number of cycles run: 7495  
  
  
the leader1 dead using 4011  
Number of cycles run: 6644  
  
  
the leader1 dead using 5725  
Number of cycles run: 6719  
  
  
the leader1 dead using 369  
the leader1 dead using 369  
Number of cycles run: 6997  
  
  
the leader1 dead using 5419  
Number of cycles run: 7525  
  
  
the leader1 dead using 1288  
Number of cycles run: 7420  
  
  
the leader1 dead using 1104  
the leader1 dead using 1104  
Number of cycles run: 12638  
  
  
Av cycles for leadership strength 1.5 is 13118  
standard diviation is 11816.246906229557  
Testing average cycles for leadership strength 1.5  
the leader1 dead using 5402  
the leader1 dead using 5402  
Number of cycles run: 6746  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 522  
the leader1 dead using 522  
the leader1 dead using 522  
Number of cycles run: 7113  
  
  
the leader1 dead using 2135  
the leader1 dead using 2135  
the leader1 dead using 2135  
Number of cycles run: 50000  
  
  
the leader1 dead using 4754  
Number of cycles run: 10354  
  
  
the leader1 dead using 2210  
the leader1 dead using 2210  
Number of cycles run: 15619  
  
  
the leader1 dead using 4304  
the leader1 dead using 4304  
Number of cycles run: 16700  
  
  
the leader1 dead using 5912  
the leader1 dead using 5912  
Number of cycles run: 8077  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2834  
Number of cycles run: 15786  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7214  
Number of cycles run: 9345  
  
  
Number of cycles run: 11306  
  
  
the leader1 dead using 419  
the leader1 dead using 419  
the leader1 dead using 419  
the leader1 dead using 419  
Number of cycles run: 36650  
  
  
the leader1 dead using 1423  
Number of cycles run: 8126  
  
  
the leader1 dead using 3742  
the leader1 dead using 3742  
the leader1 dead using 3742  
Number of cycles run: 8651  
  
  
the leader1 dead using 3650  
the leader1 dead using 3650  
Number of cycles run: 7158  
  
  
the leader1 dead using 8101  
Number of cycles run: 8543  
  
  
Number of cycles run: 8536  
  
  
Number of cycles run: 13159  
  
  
the leader1 dead using 1233  
the leader1 dead using 1233  
the leader1 dead using 1233  
the leader1 dead using 1233  
the leader1 dead using 1233  
Number of cycles run: 8518  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 8144  
  
  
the leader1 dead using 19430  
Number of cycles run: 20245  
  
  
the leader1 dead using 2032  
the leader1 dead using 2032  
the leader1 dead using 2032

the leader1 dead using 2032  
Number of cycles run: 7204  
  
  
the leader1 dead using 3626  
the leader1 dead using 3626  
the leader1 dead using 3626  
Number of cycles run: 9617  
  
  
the leader1 dead using 3222  
the leader1 dead using 3222  
the leader1 dead using 3222  
Number of cycles run: 7792  
  
  
the leader1 dead using 935  
the leader1 dead using 935  
the leader1 dead using 935  
the leader1 dead using 935  
the leader1 dead using 935  
Number of cycles run: 9741  
  
  
the leader1 dead using 7871  
the leader1 dead using 7871  
Number of cycles run: 11699  
  
  
Number of cycles run: 23156  
  
  
the leader1 dead using 2789  
the leader1 dead using 2789  
Number of cycles run: 8541  
  
  
the leader1 dead using 3618  
the leader1 dead using 3618  
the leader1 dead using 3618  
Number of cycles run: 7174  
  
  
the leader1 dead using 411  
the leader1 dead using 411  
the leader1 dead using 411  
the leader1 dead using 411  
Number of cycles run: 6203  
  
  
the leader1 dead using 490  
the leader1 dead using 490  
the leader1 dead using 490  
the leader1 dead using 490  
Number of cycles run: 48409  
  
  
Number of cycles run: 19440  
  
  
Number of cycles run: 6942  
  
  
Number of cycles run: 29816  
  
  
Number of cycles run: 6720  
  
  
Number of cycles run: 6903  
  
  
the leader1 dead using 2766  
the leader1 dead using 2766  
Number of cycles run: 7636  
  
  
the leader1 dead using 2001  
the leader1 dead using 2001  
the leader1 dead using 2001  
the leader1 dead using 2001  
Number of cycles run: 6046  
  
  
the leader1 dead using 2085  
the leader1 dead using 2085  
the leader1 dead using 2085  
the leader1 dead using 2085  
Number of cycles run: 6719  
  
  
the leader1 dead using 445  
the leader1 dead using 445  
Number of cycles run: 12278  
  
  
the leader1 dead using 3035  
the leader1 dead using 3035  
Number of cycles run: 46425  
  
  
the leader1 dead using 1882  
Number of cycles run: 7446  
  
  
the leader1 dead using 2782  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7577  
the leader1 dead using 7577  
Number of cycles run: 12069  
  
  
the leader1 dead using 6598  
Number of cycles run: 8765  
  
  
Av cycles for leadership strength 1.5 is 18910  
standard diviation is 16530.75297445488  
Testing average cycles for leadership strength 1.5  
the leader1 dead using 2258  
the leader1 dead using 2258  
the leader1 dead using 2258  
the leader1 dead using 2258  
Number of cycles run: 12151  
  
  
the leader1 dead using 3709  
the leader1 dead using 3709  
Number of cycles run: 7530  
  
  
Number of cycles run: 12814  
  
  
Number of cycles run: 5756  
  
  
the leader1 dead using 679  
the leader1 dead using 679  
the leader1 dead using 679  
the leader1 dead using 679  
the leader1 dead using 679  
the leader1 dead using 679  
Number of cycles run: 8279  
  
  
the leader1 dead using 7787  
Number of cycles run: 9405  
  
  
Number of cycles run: 12269  
  
  
the leader1 dead using 1512  
the leader1 dead using 1512  
the leader1 dead using 1512  
the leader1 dead using 1512  
Number of cycles run: 8654  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 507  
the leader1 dead using 507  
Number of cycles run: 12595  
  
  
the leader1 dead using 3490  
the leader1 dead using 3490  
Number of cycles run: 8814  
  
  
the leader1 dead using 740  
the leader1 dead using 740  
the leader1 dead using 740  
Number of cycles run: 7619  
  
  
Number of cycles run: 9865  
  
  
Number of cycles run: 8924  
  
  
the leader1 dead using 7783  
the leader1 dead using 7783  
Number of cycles run: 8052  
  
  
the leader1 dead using 2661  
Number of cycles run: 4785  
  
  
the leader1 dead using 4300  
the leader1 dead using 4300  
the leader1 dead using 4300  
Number of cycles run: 8986  
  
  
the leader1 dead using 12874  
the leader1 dead using 12874  
the leader1 dead using 12874  
Number of cycles run: 14126  
  
  
the leader1 dead using 7597  
Number of cycles run: 25224  
  
  
the leader1 dead using 9873  
Number of cycles run: 14210  
  
  
the leader1 dead using 5731  
the leader1 dead using 5731  
Number of cycles run: 7738  
  
  
the leader1 dead using 412  
the leader1 dead using 412  
Number of cycles run: 10152  
  
  
Number of cycles run: 22786  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1426  
the leader1 dead using 1426  
Number of cycles run: 8697  
  
  
Number of cycles run: 6695  
  
  
the leader1 dead using 443  
the leader1 dead using 443  
the leader1 dead using 443  
the leader1 dead using 443  
the leader1 dead using 443  
Number of cycles run: 14654  
  
  
the leader1 dead using 3587  
Number of cycles run: 6714  
  
  
the leader1 dead using 520  
the leader1 dead using 520  
Number of cycles run: 50000  
  
  
the leader1 dead using 8746  
Number of cycles run: 8929  
  
  
the leader1 dead using 1678  
Number of cycles run: 8428  
  
  
the leader1 dead using 404  
the leader1 dead using 404  
Number of cycles run: 50000  
  
  
the leader1 dead using 767  
the leader1 dead using 767  
the leader1 dead using 767  
Number of cycles run: 25881  
  
  
Number of cycles run: 8665  
  
  
the leader1 dead using 1869  
Number of cycles run: 50000  
  
  
the leader1 dead using 5416  
Number of cycles run: 7364  
  
  
the leader1 dead using 3112  
Number of cycles run: 6287  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1653  
Number of cycles run: 13735  
  
  
the leader1 dead using 7262  
Number of cycles run: 8122  
  
  
the leader1 dead using 480  
the leader1 dead using 480  
the leader1 dead using 480  
Number of cycles run: 7588  
  
  
the leader1 dead using 1309  
Number of cycles run: 8282  
  
  
the leader1 dead using 7361  
Number of cycles run: 7512  
  
  
the leader1 dead using 1913  
the leader1 dead using 1913  
Number of cycles run: 7440  
  
  
Number of cycles run: 7614  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 2087  
Number of cycles run: 6842  
  
  
the leader1 dead using 1670  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6205  
Number of cycles run: 10188  
  
  
Av cycles for leadership strength 1.5 is 17407  
standard diviation is 16012.556344867333  
Testing average cycles for leadership strength 1.5  
the leader1 dead using 1716  
Number of cycles run: 37915  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 11039  
Number of cycles run: 11814  
  
  
Number of cycles run: 44227  
  
  
the leader1 dead using 484  
Number of cycles run: 50000  
  
  
the leader1 dead using 2723  
the leader1 dead using 2723  
Number of cycles run: 6305  
  
  
the leader1 dead using 1385  
the leader1 dead using 1385  
Number of cycles run: 50000  
  
  
the leader1 dead using 6823  
Number of cycles run: 9168  
  
  
the leader1 dead using 30863  
Number of cycles run: 31172  
  
  
the leader1 dead using 1379  
Number of cycles run: 10250  
  
  
Number of cycles run: 8235  
  
  
the leader1 dead using 1540  
the leader1 dead using 1540  
Number of cycles run: 6598  
  
  
the leader1 dead using 6657  
the leader1 dead using 6657  
Number of cycles run: 7504  
  
  
the leader1 dead using 2730  
the leader1 dead using 2730  
Number of cycles run: 7358  
  
  
the leader1 dead using 1659  
the leader1 dead using 1659  
Number of cycles run: 6361  
  
  
the leader1 dead using 518  
Number of cycles run: 14831  
  
  
the leader1 dead using 2958  
the leader1 dead using 2958  
Number of cycles run: 7049  
  
  
the leader1 dead using 10537  
Number of cycles run: 10537  
  
  
the leader1 dead using 2721  
the leader1 dead using 2721  
Number of cycles run: 8320  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 8757  
  
  
the leader1 dead using 442  
Number of cycles run: 37887  
  
  
Number of cycles run: 13822  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 543  
Number of cycles run: 9024  
  
  
the leader1 dead using 6625  
Number of cycles run: 14662  
  
  
the leader1 dead using 5675  
Number of cycles run: 6280  
  
  
the leader1 dead using 2458  
the leader1 dead using 2458  
Number of cycles run: 9381  
  
  
the leader1 dead using 4353  
the leader1 dead using 4353  
Number of cycles run: 6940  
  
  
the leader1 dead using 5637  
Number of cycles run: 6959  
  
  
the leader1 dead using 727  
the leader1 dead using 727  
Number of cycles run: 16089  
  
  
the leader1 dead using 4013  
Number of cycles run: 6304  
  
  
the leader1 dead using 4091  
Number of cycles run: 9750  
  
  
Number of cycles run: 21515  
  
  
the leader1 dead using 6669  
the leader1 dead using 6669  
the leader1 dead using 6669  
the leader1 dead using 6669  
Number of cycles run: 13590  
  
  
the leader1 dead using 605  
Number of cycles run: 5623  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 7447  
Number of cycles run: 50000

the leader1 dead using 1643  
the leader1 dead using 1643  
Number of cycles run: 6245  
  
  
the leader1 dead using 5741  
the leader1 dead using 5741  
Number of cycles run: 7717  
  
  
the leader1 dead using 2006  
the leader1 dead using 2006  
the leader1 dead using 2006  
Number of cycles run: 5863  
  
  
Number of cycles run: 7396  
  
  
the leader1 dead using 463  
the leader1 dead using 463  
Number of cycles run: 8743  
  
  
the leader1 dead using 1199  
the leader1 dead using 1199  
the leader1 dead using 1199  
the leader1 dead using 1199  
Number of cycles run: 10656  
  
  
Number of cycles run: 8118  
  
  
the leader1 dead using 586  
the leader1 dead using 586  
the leader1 dead using 586  
Number of cycles run: 19784  
  
  
the leader1 dead using 2137  
the leader1 dead using 2137  
Number of cycles run: 7961  
  
  
the leader1 dead using 1198  
the leader1 dead using 1198  
the leader1 dead using 1198  
Number of cycles run: 24062  
  
  
Number of cycles run: 22727  
  
  
the leader1 dead using 446  
Number of cycles run: 9583  
  
  
Av cycles for leadership strength 1.5 is 18061  
standard diviation is 15660.176759968877  
Testing average cycles for leadership strength 1.5  
the leader1 dead using 5484  
Number of cycles run: 7105  
  
  
the leader1 dead using 855  
the leader1 dead using 855  
the leader1 dead using 855  
Number of cycles run: 7063  
  
  
the leader1 dead using 1286  
the leader1 dead using 1286  
Number of cycles run: 10990  
  
  
the leader1 dead using 1938  
Number of cycles run: 8313  
  
  
Number of cycles run: 7938  
  
  
the leader1 dead using 1178  
the leader1 dead using 1178  
Number of cycles run: 7745  
  
  
the leader1 dead using 1497  
Number of cycles run: 7127  
  
  
the leader1 dead using 8205  
the leader1 dead using 8205  
Number of cycles run: 10670  
  
  
the leader1 dead using 723  
the leader1 dead using 723  
the leader1 dead using 723  
the leader1 dead using 723  
Number of cycles run: 7715  
  
  
the leader1 dead using 4772  
Number of cycles run: 7236  
  
  
the leader1 dead using 391  
the leader1 dead using 391  
the leader1 dead using 391  
Number of cycles run: 9531  
  
  
the leader1 dead using 5978  
the leader1 dead using 5978  
Number of cycles run: 7956  
  
  
the leader1 dead using 1970  
the leader1 dead using 1970  
the leader1 dead using 1970  
the leader1 dead using 1970  
the leader1 dead using 1970  
Number of cycles run: 6784  
  
  
the leader1 dead using 3597  
the leader1 dead using 3597  
the leader1 dead using 3597  
Number of cycles run: 7078  
  
  
Number of cycles run: 32985  
  
  
the leader1 dead using 807  
the leader1 dead using 807  
Number of cycles run: 35482  
  
  
the leader1 dead using 3177  
Number of cycles run: 7440  
  
  
the leader1 dead using 1652  
Number of cycles run: 9483  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 16651  
the leader1 dead using 16651  
Number of cycles run: 17334  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 379  
the leader1 dead using 379  
the leader1 dead using 379  
Number of cycles run: 9383  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 8170  
the leader1 dead using 8170  
Number of cycles run: 10237  
  
  
the leader1 dead using 3360  
the leader1 dead using 3360  
Number of cycles run: 6651  
  
  
Number of cycles run: 33475  
  
  
Number of cycles run: 7919  
  
  
Number of cycles run: 7037  
  
  
the leader1 dead using 28756  
the leader1 dead using 28756  
Number of cycles run: 42129  
  
  
the leader1 dead using 6782  
the leader1 dead using 6782  
Number of cycles run: 7105  
  
  
Number of cycles run: 7487  
  
  
Number of cycles run: 16548  
  
  
Number of cycles run: 7702  
  
  
the leader1 dead using 2254  
the leader1 dead using 2254  
the leader1 dead using 2254  
the leader1 dead using 2254  
Number of cycles run: 7869  
  
  
the leader1 dead using 494  
the leader1 dead using 494  
the leader1 dead using 494  
Number of cycles run: 8094  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 32446  
  
  
the leader1 dead using 1464  
the leader1 dead using 1464  
Number of cycles run: 7528  
  
  
the leader1 dead using 514  
the leader1 dead using 514  
the leader1 dead using 514  
Number of cycles run: 5922  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 7869  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 45717  
  
  
the leader1 dead using 1843  
Number of cycles run: 18921  
  
  
the leader1 dead using 378  
Number of cycles run: 8310  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 7735  
  
  
Number of cycles run: 27889  
  
  
the leader1 dead using 3901  
the leader1 dead using 3901  
Number of cycles run: 7132  
  
  
Av cycles for leadership strength 1.5 is 19141  
standard diviation is 16804.142154570713  
Testing average cycles for leadership strength 1.5  
the leader1 dead using 2029  
the leader1 dead using 2029  
Number of cycles run: 7426  
  
  
the leader1 dead using 7427  
Number of cycles run: 8074  
  
  
the leader1 dead using 1954  
the leader1 dead using 1954  
Number of cycles run: 7710  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6260  
Number of cycles run: 7671  
  
  
the leader1 dead using 4272  
Number of cycles run: 11178  
  
  
Number of cycles run: 41173  
  
  
the leader1 dead using 5250  
the leader1 dead using 5250  
the leader1 dead using 5250  
Number of cycles run: 8777  
  
  
the leader1 dead using 457  
the leader1 dead using 457  
Number of cycles run: 50000  
  
  
the leader1 dead using 3666  
the leader1 dead using 3666  
Number of cycles run: 7013  
  
  
Number of cycles run: 8259  
  
  
the leader1 dead using 7866  
the leader1 dead using 7866  
the leader1 dead using 7866  
Number of cycles run: 10734  
  
  
the leader1 dead using 705  
Number of cycles run: 7855  
  
  
the leader1 dead using 1351  
the leader1 dead using 1351  
Number of cycles run: 7193  
  
  
the leader1 dead using 4399  
Number of cycles run: 6082  
  
  
the leader1 dead using 2000  
the leader1 dead using 2000  
Number of cycles run: 15046  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 9596  
the leader1 dead using 9596  
Number of cycles run: 37062  
  
  
the leader1 dead using 4029  
the leader1 dead using 4029  
the leader1 dead using 4029  
the leader1 dead using 4029  
Number of cycles run: 8253  
  
  
the leader1 dead using 857  
the leader1 dead using 857  
Number of cycles run: 7514  
  
  
the leader1 dead using 4019  
Number of cycles run: 15070  
  
  
the leader1 dead using 4768  
Number of cycles run: 8466  
  
  
the leader1 dead using 2939  
Number of cycles run: 6515  
  
  
the leader1 dead using 7468  
the leader1 dead using 7468  
Number of cycles run: 9837  
  
  
Number of cycles run: 27527  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1440  
the leader1 dead using 1440  
the leader1 dead using 1440  
Number of cycles run: 38794  
  
  
Number of cycles run: 24519  
  
  
the leader1 dead using 8011  
the leader1 dead using 8011  
Number of cycles run: 8230  
  
  
the leader1 dead using 26442  
the leader1 dead using 26442  
Number of cycles run: 29443  
  
  
the leader1 dead using 435  
Number of cycles run: 17242  
  
  
the leader1 dead using 510  
the leader1 dead using 510  
Number of cycles run: 6314  
  
  
the leader1 dead using 7462  
the leader1 dead using 7462  
the leader1 dead using 7462  
Number of cycles run: 9598  
  
  
the leader1 dead using 7780  
Number of cycles run: 50000  
  
  
the leader1 dead using 7428  
the leader1 dead using 7428  
Number of cycles run: 7577  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 34814  
the leader1 dead using 34814  
the leader1 dead using 34814  
the leader1 dead using 34814  
Number of cycles run: 42957  
  
  
the leader1 dead using 2747  
Number of cycles run: 6983  
  
  
the leader1 dead using 2755  
the leader1 dead using 2755  
the leader1 dead using 2755  
the leader1 dead using 2755  
Number of cycles run: 7767  
  
  
the leader1 dead using 2646  
the leader1 dead using 2646  
Number of cycles run: 6641  
  
  
the leader1 dead using 862  
the leader1 dead using 862  
the leader1 dead using 862  
Number of cycles run: 7911  
  
  
the leader1 dead using 4272  
the leader1 dead using 4272  
the leader1 dead using 4272  
Number of cycles run: 7142  
  
  
Number of cycles run: 6885  
  
  
the leader1 dead using 2552  
Number of cycles run: 6524  
  
  
Number of cycles run: 25852  
  
  
Number of cycles run: 46685  
  
  
the leader1 dead using 926  
the leader1 dead using 926  
the leader1 dead using 926  
Number of cycles run: 6878  
  
  
the leader1 dead using 2707  
Number of cycles run: 11202  
  
  
the leader1 dead using 1452  
the leader1 dead using 1452  
Number of cycles run: 6914  
  
  
the leader1 dead using 19480

Number of cycles run: 37563  
  
  
Av cycles for leadership strength 1.5 is 18881  
standard diviation is 16177.087459712384  
Testing average cycles for leadership strength 1.5  
Number of cycles run: 50000  
  
  
the leader1 dead using 9150  
Number of cycles run: 10607  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 925  
Number of cycles run: 7529  
  
  
the leader1 dead using 988  
Number of cycles run: 9886  
  
  
the leader1 dead using 725  
the leader1 dead using 725  
Number of cycles run: 26605  
  
  
the leader1 dead using 7988  
Number of cycles run: 7988  
  
  
the leader1 dead using 7591  
the leader1 dead using 7591  
the leader1 dead using 7591  
Number of cycles run: 9787  
  
  
the leader1 dead using 8511  
Number of cycles run: 9202  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 428  
Number of cycles run: 50000  
  
  
the leader1 dead using 1332  
the leader1 dead using 1332  
Number of cycles run: 48681  
  
  
the leader1 dead using 2159  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 27368  
  
  
Number of cycles run: 6782  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 35403  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3277  
the leader1 dead using 3277  
the leader1 dead using 3277  
the leader1 dead using 3277  
the leader1 dead using 3277  
Number of cycles run: 7874  
  
  
the leader1 dead using 1318  
the leader1 dead using 1318  
the leader1 dead using 1318  
Number of cycles run: 9523  
  
  
the leader1 dead using 5413  
Number of cycles run: 6608  
  
  
the leader1 dead using 1649  
Number of cycles run: 7683  
  
  
Number of cycles run: 7559  
  
  
the leader1 dead using 1564  
the leader1 dead using 1564  
Number of cycles run: 7477  
  
  
the leader1 dead using 3847  
the leader1 dead using 3847  
Number of cycles run: 7259  
  
  
Number of cycles run: 7788  
  
  
the leader1 dead using 5724  
the leader1 dead using 5724  
the leader1 dead using 5724  
Number of cycles run: 9559  
  
  
the leader1 dead using 4558  
the leader1 dead using 4558  
the leader1 dead using 4558  
Number of cycles run: 7523  
  
  
Number of cycles run: 20402  
  
  
the leader1 dead using 32753  
Number of cycles run: 50000  
  
  
the leader1 dead using 5867  
the leader1 dead using 5867  
the leader1 dead using 5867  
Number of cycles run: 8724  
  
  
the leader1 dead using 5205  
the leader1 dead using 5205  
Number of cycles run: 7431  
  
  
the leader1 dead using 429  
the leader1 dead using 429  
Number of cycles run: 5892  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 6742  
  
  
the leader1 dead using 24474  
Number of cycles run: 24474  
  
  
the leader1 dead using 1424  
the leader1 dead using 1424  
Number of cycles run: 7501  
  
  
Number of cycles run: 8373  
  
  
the leader1 dead using 1746  
the leader1 dead using 1746  
the leader1 dead using 1746  
the leader1 dead using 1746  
Number of cycles run: 40281  
  
  
the leader1 dead using 4218  
the leader1 dead using 4218  
Number of cycles run: 6149  
  
  
the leader1 dead using 1233  
the leader1 dead using 1233  
Number of cycles run: 7856  
  
  
the leader1 dead using 447  
the leader1 dead using 447  
Number of cycles run: 11411  
  
  
the leader1 dead using 5306  
Number of cycles run: 7423  
  
  
the leader1 dead using 7295  
the leader1 dead using 7295  
the leader1 dead using 7295  
Number of cycles run: 9455  
  
  
the leader1 dead using 942  
the leader1 dead using 942  
the leader1 dead using 942  
the leader1 dead using 942  
the leader1 dead using 942  
Number of cycles run: 12271  
  
  
the leader1 dead using 29198  
the leader1 dead using 29198  
Number of cycles run: 32261  
  
  
the leader1 dead using 1853  
the leader1 dead using 1853  
Number of cycles run: 7367  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1673  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 1.5 is 22054  
standard diviation is 18374.42972358432