Testing average cycles for selfish strength 2.0  
Number of cycles run: 7179  
Number of cycles run: 8996  
Number of cycles run: 9831  
Number of cycles run: 6020  
Number of cycles run: 6343  
Number of cycles run: 3132  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 16287  
Number of cycles run: 4383  
Number of cycles run: 994  
Number of cycles run: 11391  
Number of cycles run: 50000  
Number of cycles run: 8441  
Number of cycles run: 9917  
Number of cycles run: 1366  
Number of cycles run: 1778  
Number of cycles run: 5164  
Number of cycles run: 13314  
Number of cycles run: 473  
Number of cycles run: 11432  
Number of cycles run: 5064  
Number of cycles run: 50000  
Number of cycles run: 33318  
Number of cycles run: 50000  
Number of cycles run: 5832  
Number of cycles run: 16794  
Number of cycles run: 9973  
Number of cycles run: 19278  
Number of cycles run: 8385  
Number of cycles run: 30131  
Number of cycles run: 18315  
Number of cycles run: 3092  
Number of cycles run: 6690  
Number of cycles run: 15596  
Number of cycles run: 11218  
Number of cycles run: 11874  
Number of cycles run: 12282  
Number of cycles run: 563  
Number of cycles run: 4597  
Number of cycles run: 1651  
Number of cycles run: 50000  
Number of cycles run: 16036  
Number of cycles run: 11513  
Number of cycles run: 50000  
Number of cycles run: 36864  
Number of cycles run: 26079  
Number of cycles run: 15353  
Number of cycles run: 553  
Number of cycles run: 4990  
Av cycles for selfish strength 2.0 is 16049  
standard diviation is 15988.612925964733  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 410  
Number of cycles run: 50000  
Number of cycles run: 11577  
Number of cycles run: 12394  
Number of cycles run: 13067  
Number of cycles run: 5457  
Number of cycles run: 14773  
Number of cycles run: 13177  
Number of cycles run: 13679  
Number of cycles run: 5211  
Number of cycles run: 21702  
Number of cycles run: 572  
Number of cycles run: 8894  
Number of cycles run: 6988  
Number of cycles run: 1588  
Number of cycles run: 16044  
Number of cycles run: 5310  
Number of cycles run: 50000  
Number of cycles run: 7590  
Number of cycles run: 1089  
Number of cycles run: 7301  
Number of cycles run: 952  
Number of cycles run: 9417  
Number of cycles run: 8331  
Number of cycles run: 6897  
Number of cycles run: 10955  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 8193  
Number of cycles run: 18590  
Number of cycles run: 5632  
Number of cycles run: 34059  
Number of cycles run: 8913  
Number of cycles run: 3130  
Number of cycles run: 4208  
Number of cycles run: 50000  
Number of cycles run: 600  
Number of cycles run: 8900  
Number of cycles run: 8600  
Number of cycles run: 504  
Number of cycles run: 26663  
Number of cycles run: 4353  
Number of cycles run: 14215  
Number of cycles run: 23832  
Number of cycles run: 8067  
Number of cycles run: 1705  
Number of cycles run: 11839  
Number of cycles run: 5739  
Number of cycles run: 9959  
Av cycles for selfish strength 2.0 is 14221  
standard diviation is 14992.017258500728  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 14549  
Number of cycles run: 18204  
Number of cycles run: 50000  
Number of cycles run: 557  
Number of cycles run: 11719  
Number of cycles run: 50000  
Number of cycles run: 4956  
Number of cycles run: 7597  
Number of cycles run: 50000  
Number of cycles run: 14846  
Number of cycles run: 824  
Number of cycles run: 50000  
Number of cycles run: 13970  
Number of cycles run: 26216  
Number of cycles run: 11083  
Number of cycles run: 50000  
Number of cycles run: 18076  
Number of cycles run: 2455  
Number of cycles run: 50000  
Number of cycles run: 17725  
Number of cycles run: 2506  
Number of cycles run: 12319  
Number of cycles run: 29392  
Number of cycles run: 6021  
Number of cycles run: 37670  
Number of cycles run: 6485  
Number of cycles run: 30099  
Number of cycles run: 524  
Number of cycles run: 50000  
Number of cycles run: 15694  
Number of cycles run: 50000  
Number of cycles run: 5755  
Number of cycles run: 6413  
Number of cycles run: 7612  
Number of cycles run: 9603  
Number of cycles run: 8341  
Number of cycles run: 7560  
Number of cycles run: 13310  
Number of cycles run: 798  
Number of cycles run: 5453  
Number of cycles run: 10275  
Number of cycles run: 8911  
Number of cycles run: 9205  
Number of cycles run: 482  
Number of cycles run: 9228  
Number of cycles run: 16315  
Number of cycles run: 50000  
Number of cycles run: 13988  
Number of cycles run: 6494  
Number of cycles run: 15708  
Av cycles for selfish strength 2.0 is 18178  
standard diviation is 16872.404536377846  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 10111  
Number of cycles run: 10762  
Number of cycles run: 22389  
Number of cycles run: 2143  
Number of cycles run: 7810  
Number of cycles run: 50000  
Number of cycles run: 6698  
Number of cycles run: 9368  
Number of cycles run: 50000  
Number of cycles run: 19261  
Number of cycles run: 11113  
Number of cycles run: 6325  
Number of cycles run: 5401  
Number of cycles run: 8808  
Number of cycles run: 733  
Number of cycles run: 8795  
Number of cycles run: 9334  
Number of cycles run: 9126  
Number of cycles run: 18493  
Number of cycles run: 50000  
Number of cycles run: 20765  
Number of cycles run: 7153  
Number of cycles run: 927  
Number of cycles run: 6283  
Number of cycles run: 5980  
Number of cycles run: 1464  
Number of cycles run: 10528  
Number of cycles run: 11536  
Number of cycles run: 859  
Number of cycles run: 13458  
Number of cycles run: 4198  
Number of cycles run: 8645  
Number of cycles run: 4408  
Number of cycles run: 753  
Number of cycles run: 47764  
Number of cycles run: 2189  
Number of cycles run: 50000  
Number of cycles run: 3550  
Number of cycles run: 50000  
Number of cycles run: 15110  
Number of cycles run: 8359  
Number of cycles run: 2175  
Number of cycles run: 9266  
Number of cycles run: 6671  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 963  
Number of cycles run: 3849  
Number of cycles run: 1185  
Number of cycles run: 50000  
Av cycles for selfish strength 2.0 is 15294  
standard diviation is 17084.084981272685  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 2398  
Number of cycles run: 10130  
Number of cycles run: 7949  
Number of cycles run: 16997  
Number of cycles run: 5676  
Number of cycles run: 10476  
Number of cycles run: 41579  
Number of cycles run: 15591  
Number of cycles run: 4410  
Number of cycles run: 4823  
Number of cycles run: 2763  
Number of cycles run: 8045  
Number of cycles run: 649  
Number of cycles run: 8951  
Number of cycles run: 1156  
Number of cycles run: 5010  
Number of cycles run: 3036  
Number of cycles run: 50000  
Number of cycles run: 10184  
Number of cycles run: 15304  
Number of cycles run: 2544  
Number of cycles run: 7389  
Number of cycles run: 3888  
Number of cycles run: 18609  
Number of cycles run: 7829  
Number of cycles run: 9066  
Number of cycles run: 26433  
Number of cycles run: 9140  
Number of cycles run: 4034  
Number of cycles run: 22387  
Number of cycles run: 20408  
Number of cycles run: 9477  
Number of cycles run: 15676  
Number of cycles run: 2472  
Number of cycles run: 5754  
Number of cycles run: 566  
Number of cycles run: 6591  
Number of cycles run: 6688  
Number of cycles run: 6830  
Number of cycles run: 13736  
Number of cycles run: 8149  
Number of cycles run: 15823  
Number of cycles run: 3735  
Number of cycles run: 7341  
Number of cycles run: 16598  
Number of cycles run: 33880  
Number of cycles run: 18735  
Number of cycles run: 6544  
Number of cycles run: 14561  
Number of cycles run: 7844  
Av cycles for selfish strength 2.0 is 11157  
standard diviation is 9975.014610679289  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 50000  
Number of cycles run: 9516  
Number of cycles run: 22894  
Number of cycles run: 500  
Number of cycles run: 11168  
Number of cycles run: 4832  
Number of cycles run: 10690  
Number of cycles run: 8280  
Number of cycles run: 7853  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 14506  
Number of cycles run: 17601  
Number of cycles run: 13871  
Number of cycles run: 7394  
Number of cycles run: 4762  
Number of cycles run: 993  
Number of cycles run: 40227  
Number of cycles run: 50000  
Number of cycles run: 10032  
Number of cycles run: 9550  
Number of cycles run: 8261

Number of cycles run: 859  
Number of cycles run: 9794  
Number of cycles run: 1488  
Number of cycles run: 4528  
Number of cycles run: 6991  
Number of cycles run: 9376  
Number of cycles run: 16456  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 13952  
Number of cycles run: 19206  
Number of cycles run: 20624  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 10569  
Number of cycles run: 8440  
Number of cycles run: 6386  
Number of cycles run: 899  
Number of cycles run: 10971  
Number of cycles run: 9774  
Number of cycles run: 34672  
Number of cycles run: 9470  
Number of cycles run: 2420  
Number of cycles run: 50000  
Number of cycles run: 9468  
Number of cycles run: 7457  
Number of cycles run: 10602  
Number of cycles run: 18232  
Av cycles for selfish strength 2.0 is 17911  
standard diviation is 16891.054075976164  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 50000  
Number of cycles run: 911  
Number of cycles run: 50000  
Number of cycles run: 1641  
Number of cycles run: 12053  
Number of cycles run: 7777  
Number of cycles run: 1493  
Number of cycles run: 3514  
Number of cycles run: 18182  
Number of cycles run: 543  
Number of cycles run: 50000  
Number of cycles run: 2680  
Number of cycles run: 7756  
Number of cycles run: 10470  
Number of cycles run: 1535  
Number of cycles run: 50000  
Number of cycles run: 11642  
Number of cycles run: 2626  
Number of cycles run: 7037  
Number of cycles run: 10568  
Number of cycles run: 10791  
Number of cycles run: 23558  
Number of cycles run: 26475  
Number of cycles run: 11080  
Number of cycles run: 19387  
Number of cycles run: 4651  
Number of cycles run: 10592  
Number of cycles run: 21081  
Number of cycles run: 50000  
Number of cycles run: 5591  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 10642  
Number of cycles run: 4614  
Number of cycles run: 7475  
Number of cycles run: 50000  
Number of cycles run: 7409  
Number of cycles run: 6222  
Number of cycles run: 648  
Number of cycles run: 5019  
Number of cycles run: 3895  
Number of cycles run: 6437  
Number of cycles run: 3569  
Number of cycles run: 26492  
Number of cycles run: 4861  
Number of cycles run: 9576  
Number of cycles run: 8422  
Number of cycles run: 6104  
Number of cycles run: 5494  
Number of cycles run: 41706  
Av cycles for selfish strength 2.0 is 15844  
standard diviation is 16927.11001635289  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 50000  
Number of cycles run: 1984  
Number of cycles run: 13533  
Number of cycles run: 50000  
Number of cycles run: 19134  
Number of cycles run: 4134  
Number of cycles run: 1450  
Number of cycles run: 50000  
Number of cycles run: 10789  
Number of cycles run: 5169  
Number of cycles run: 8491  
Number of cycles run: 15740  
Number of cycles run: 15680  
Number of cycles run: 474  
Number of cycles run: 9208  
Number of cycles run: 482  
Number of cycles run: 4504  
Number of cycles run: 7753  
Number of cycles run: 1081  
Number of cycles run: 504  
Number of cycles run: 23003  
Number of cycles run: 50000  
Number of cycles run: 7367  
Number of cycles run: 18919  
Number of cycles run: 17405  
Number of cycles run: 14599  
Number of cycles run: 577  
Number of cycles run: 5053  
Number of cycles run: 9952  
Number of cycles run: 50000  
Number of cycles run: 10160  
Number of cycles run: 9010  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 7547  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 985  
Number of cycles run: 5626  
Number of cycles run: 9935  
Number of cycles run: 870  
Number of cycles run: 7443  
Number of cycles run: 36219  
Number of cycles run: 12981  
Number of cycles run: 9317  
Number of cycles run: 7437  
Number of cycles run: 7047  
Number of cycles run: 6093  
Number of cycles run: 10359  
Number of cycles run: 13327  
Av cycles for selfish strength 2.0 is 16426  
standard diviation is 17179.453187575025  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 10760  
Number of cycles run: 21560  
Number of cycles run: 1453  
Number of cycles run: 2393  
Number of cycles run: 8740  
Number of cycles run: 4059  
Number of cycles run: 50000  
Number of cycles run: 33185  
Number of cycles run: 795  
Number of cycles run: 1136  
Number of cycles run: 11688  
Number of cycles run: 27886  
Number of cycles run: 23597  
Number of cycles run: 9523  
Number of cycles run: 50000  
Number of cycles run: 5145  
Number of cycles run: 4904  
Number of cycles run: 35807  
Number of cycles run: 490  
Number of cycles run: 12727  
Number of cycles run: 50000  
Number of cycles run: 1259  
Number of cycles run: 9798  
Number of cycles run: 3825  
Number of cycles run: 986  
Number of cycles run: 6400  
Number of cycles run: 14431  
Number of cycles run: 17410  
Number of cycles run: 6426  
Number of cycles run: 2576  
Number of cycles run: 12244  
Number of cycles run: 1304  
Number of cycles run: 50000  
Number of cycles run: 8390  
Number of cycles run: 5058  
Number of cycles run: 3797  
Number of cycles run: 10153  
Number of cycles run: 7457  
Number of cycles run: 50000  
Number of cycles run: 6486  
Number of cycles run: 10755  
Number of cycles run: 26563  
Number of cycles run: 9191  
Number of cycles run: 8592  
Number of cycles run: 15350  
Number of cycles run: 10039  
Number of cycles run: 50000  
Number of cycles run: 3783  
Number of cycles run: 10699  
Number of cycles run: 768  
Av cycles for selfish strength 2.0 is 14591  
standard diviation is 15529.214376964286  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 14421  
Number of cycles run: 8299  
Number of cycles run: 6795  
Number of cycles run: 11140  
Number of cycles run: 6086  
Number of cycles run: 50000  
Number of cycles run: 8585  
Number of cycles run: 7460  
Number of cycles run: 50000  
Number of cycles run: 2403  
Number of cycles run: 25586  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 5317  
Number of cycles run: 5063  
Number of cycles run: 2904  
Number of cycles run: 5186  
Number of cycles run: 1531  
Number of cycles run: 50000  
Number of cycles run: 17298  
Number of cycles run: 6963  
Number of cycles run: 9305  
Number of cycles run: 9956  
Number of cycles run: 10049  
Number of cycles run: 50000  
Number of cycles run: 14046  
Number of cycles run: 27938  
Number of cycles run: 14072  
Number of cycles run: 667  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 3520  
Number of cycles run: 4441  
Number of cycles run: 6445  
Number of cycles run: 8504  
Number of cycles run: 8322  
Number of cycles run: 50000  
Number of cycles run: 5005  
Number of cycles run: 50000  
Number of cycles run: 19358  
Number of cycles run: 15171  
Number of cycles run: 3735  
Number of cycles run: 50000  
Number of cycles run: 7500  
Number of cycles run: 14850  
Number of cycles run: 50000  
Number of cycles run: 13590  
Number of cycles run: 50000  
Number of cycles run: 10118  
Number of cycles run: 6577  
Av cycles for selfish strength 2.0 is 19964  
standard diviation is 18743.205809736028