Testing average cycles for selfish strength 2.0  
Number of cycles run: 7362  
Number of cycles run: 10057  
Number of cycles run: 50000  
Number of cycles run: 3667  
Number of cycles run: 2866  
Number of cycles run: 9986  
Number of cycles run: 50000  
Number of cycles run: 7522  
Number of cycles run: 5091  
Number of cycles run: 5522  
Number of cycles run: 9809  
Number of cycles run: 9395  
Number of cycles run: 604  
Number of cycles run: 825  
Number of cycles run: 5780  
Number of cycles run: 813  
Number of cycles run: 8302  
Number of cycles run: 5103  
Number of cycles run: 31920  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 31843  
Number of cycles run: 50000  
Number of cycles run: 8387  
Number of cycles run: 14622  
Number of cycles run: 50000  
Number of cycles run: 7277  
Number of cycles run: 5741  
Number of cycles run: 10724  
Number of cycles run: 791  
Number of cycles run: 6018  
Number of cycles run: 8243  
Number of cycles run: 6210  
Number of cycles run: 10025  
Number of cycles run: 534  
Number of cycles run: 965  
Number of cycles run: 13040  
Number of cycles run: 15636  
Number of cycles run: 1279  
Number of cycles run: 4926  
Number of cycles run: 10596  
Number of cycles run: 50000  
Number of cycles run: 12328  
Number of cycles run: 1953  
Number of cycles run: 8097  
Number of cycles run: 4160  
Number of cycles run: 11037  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 7981  
Av cycles for selfish strength 2.0 is 15540  
standard diviation is 17419.445346977227  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 5593  
Number of cycles run: 8137  
Number of cycles run: 5976  
Number of cycles run: 19147  
Number of cycles run: 46783  
Number of cycles run: 50000  
Number of cycles run: 9702  
Number of cycles run: 1409  
Number of cycles run: 877  
Number of cycles run: 13632  
Number of cycles run: 5894  
Number of cycles run: 10407  
Number of cycles run: 50000  
Number of cycles run: 10383  
Number of cycles run: 10810  
Number of cycles run: 1412  
Number of cycles run: 538  
Number of cycles run: 2066  
Number of cycles run: 50000  
Number of cycles run: 12809  
Number of cycles run: 9413  
Number of cycles run: 10466  
Number of cycles run: 50000  
Number of cycles run: 21043  
Number of cycles run: 472  
Number of cycles run: 50000  
Number of cycles run: 4466  
Number of cycles run: 4940  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 19444  
Number of cycles run: 773  
Number of cycles run: 50000  
Number of cycles run: 5678  
Number of cycles run: 5169  
Number of cycles run: 7685  
Number of cycles run: 10934  
Number of cycles run: 21938  
Number of cycles run: 569  
Number of cycles run: 9494  
Number of cycles run: 762  
Number of cycles run: 3770  
Number of cycles run: 12892  
Number of cycles run: 1073  
Number of cycles run: 13349  
Number of cycles run: 19128  
Number of cycles run: 14420  
Number of cycles run: 11242  
Number of cycles run: 7985  
Av cycles for selfish strength 2.0 is 16653  
standard diviation is 17577.921876894437  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 3200  
Number of cycles run: 9212  
Number of cycles run: 12866  
Number of cycles run: 9898  
Number of cycles run: 5671  
Number of cycles run: 621  
Number of cycles run: 50000  
Number of cycles run: 12529  
Number of cycles run: 1072  
Number of cycles run: 11836  
Number of cycles run: 9019  
Number of cycles run: 12638  
Number of cycles run: 12758  
Number of cycles run: 5002  
Number of cycles run: 8380  
Number of cycles run: 14400  
Number of cycles run: 12472  
Number of cycles run: 9198  
Number of cycles run: 766  
Number of cycles run: 6647  
Number of cycles run: 23070  
Number of cycles run: 12769  
Number of cycles run: 4438  
Number of cycles run: 4813  
Number of cycles run: 1070  
Number of cycles run: 9622  
Number of cycles run: 961  
Number of cycles run: 611  
Number of cycles run: 1896  
Number of cycles run: 12324  
Number of cycles run: 6354  
Number of cycles run: 12198  
Number of cycles run: 6143  
Number of cycles run: 5979  
Number of cycles run: 44032  
Number of cycles run: 3510  
Number of cycles run: 4160  
Number of cycles run: 17930  
Number of cycles run: 11412  
Number of cycles run: 30654  
Number of cycles run: 4214  
Number of cycles run: 7477  
Number of cycles run: 7289  
Number of cycles run: 23932  
Number of cycles run: 27133  
Number of cycles run: 46358  
Number of cycles run: 2330  
Number of cycles run: 50000  
Number of cycles run: 40299  
Number of cycles run: 19691  
Av cycles for selfish strength 2.0 is 13017  
standard diviation is 13109.886702043163  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 5624  
Number of cycles run: 494  
Number of cycles run: 6602  
Number of cycles run: 10646  
Number of cycles run: 43499  
Number of cycles run: 7615  
Number of cycles run: 9603  
Number of cycles run: 5150  
Number of cycles run: 25532  
Number of cycles run: 8920  
Number of cycles run: 8163  
Number of cycles run: 1241  
Number of cycles run: 1893  
Number of cycles run: 50000  
Number of cycles run: 25662  
Number of cycles run: 9195  
Number of cycles run: 5726  
Number of cycles run: 15107  
Number of cycles run: 3217  
Number of cycles run: 499  
Number of cycles run: 30650  
Number of cycles run: 466  
Number of cycles run: 10109  
Number of cycles run: 4876  
Number of cycles run: 14071  
Number of cycles run: 10825  
Number of cycles run: 9488  
Number of cycles run: 1528  
Number of cycles run: 14154  
Number of cycles run: 8109  
Number of cycles run: 50000  
Number of cycles run: 10755  
Number of cycles run: 22010  
Number of cycles run: 3192  
Number of cycles run: 3904  
Number of cycles run: 8469  
Number of cycles run: 10260  
Number of cycles run: 30093  
Number of cycles run: 10366  
Number of cycles run: 3814  
Number of cycles run: 9351  
Number of cycles run: 21109  
Number of cycles run: 7286  
Number of cycles run: 6139  
Number of cycles run: 1616  
Number of cycles run: 825  
Number of cycles run: 8644  
Number of cycles run: 10842  
Number of cycles run: 19950  
Number of cycles run: 14865  
Av cycles for selfish strength 2.0 is 12043  
standard diviation is 11807.542431818048  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 2047  
Number of cycles run: 12432  
Number of cycles run: 4609  
Number of cycles run: 50000  
Number of cycles run: 7011  
Number of cycles run: 9520  
Number of cycles run: 1173  
Number of cycles run: 2849  
Number of cycles run: 3396  
Number of cycles run: 11271  
Number of cycles run: 19696  
Number of cycles run: 9536  
Number of cycles run: 4818  
Number of cycles run: 1117  
Number of cycles run: 462  
Number of cycles run: 26918  
Number of cycles run: 11629  
Number of cycles run: 6476  
Number of cycles run: 32566  
Number of cycles run: 538  
Number of cycles run: 4328  
Number of cycles run: 50000  
Number of cycles run: 22280  
Number of cycles run: 7467  
Number of cycles run: 20958  
Number of cycles run: 15620  
Number of cycles run: 6134  
Number of cycles run: 23679  
Number of cycles run: 6828  
Number of cycles run: 7290  
Number of cycles run: 6342  
Number of cycles run: 481  
Number of cycles run: 7866  
Number of cycles run: 50000  
Number of cycles run: 10181  
Number of cycles run: 2134  
Number of cycles run: 26828  
Number of cycles run: 5217  
Number of cycles run: 6194  
Number of cycles run: 4077  
Number of cycles run: 11766  
Number of cycles run: 11226  
Number of cycles run: 1162  
Number of cycles run: 50000  
Number of cycles run: 5032  
Number of cycles run: 25589  
Number of cycles run: 14992  
Number of cycles run: 20544  
Number of cycles run: 9985  
Number of cycles run: 14277  
Av cycles for selfish strength 2.0 is 13330  
standard diviation is 13484.212210067093  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 942  
Number of cycles run: 7119  
Number of cycles run: 12524  
Number of cycles run: 9731  
Number of cycles run: 2718  
Number of cycles run: 4801  
Number of cycles run: 6744  
Number of cycles run: 9435  
Number of cycles run: 14792  
Number of cycles run: 2564  
Number of cycles run: 876  
Number of cycles run: 644  
Number of cycles run: 7705  
Number of cycles run: 9305  
Number of cycles run: 7073  
Number of cycles run: 11459  
Number of cycles run: 18362  
Number of cycles run: 8199  
Number of cycles run: 7192  
Number of cycles run: 50000  
Number of cycles run: 17670  
Number of cycles run: 7448  
Number of cycles run: 8654

Number of cycles run: 3201  
Number of cycles run: 953  
Number of cycles run: 16681  
Number of cycles run: 559  
Number of cycles run: 50000  
Number of cycles run: 487  
Number of cycles run: 50000  
Number of cycles run: 6215  
Number of cycles run: 30799  
Number of cycles run: 5899  
Number of cycles run: 986  
Number of cycles run: 8195  
Number of cycles run: 8062  
Number of cycles run: 16535  
Number of cycles run: 12207  
Number of cycles run: 10221  
Number of cycles run: 6884  
Number of cycles run: 989  
Number of cycles run: 1319  
Number of cycles run: 2681  
Number of cycles run: 2643  
Number of cycles run: 1509  
Number of cycles run: 11600  
Number of cycles run: 27612  
Number of cycles run: 3186  
Number of cycles run: 9264  
Number of cycles run: 50000  
Av cycles for selfish strength 2.0 is 11292  
standard diviation is 13229.241781287208  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 3018  
Number of cycles run: 570  
Number of cycles run: 10345  
Number of cycles run: 1368  
Number of cycles run: 6657  
Number of cycles run: 2400  
Number of cycles run: 6034  
Number of cycles run: 24140  
Number of cycles run: 673  
Number of cycles run: 10702  
Number of cycles run: 6418  
Number of cycles run: 7460  
Number of cycles run: 7861  
Number of cycles run: 24200  
Number of cycles run: 10135  
Number of cycles run: 44806  
Number of cycles run: 10984  
Number of cycles run: 19975  
Number of cycles run: 1146  
Number of cycles run: 50000  
Number of cycles run: 6328  
Number of cycles run: 19855  
Number of cycles run: 14118  
Number of cycles run: 7730  
Number of cycles run: 50000  
Number of cycles run: 13966  
Number of cycles run: 19481  
Number of cycles run: 3324  
Number of cycles run: 489  
Number of cycles run: 4408  
Number of cycles run: 8457  
Number of cycles run: 50000  
Number of cycles run: 1835  
Number of cycles run: 9389  
Number of cycles run: 15584  
Number of cycles run: 50000  
Number of cycles run: 6283  
Number of cycles run: 723  
Number of cycles run: 12654  
Number of cycles run: 18938  
Number of cycles run: 8620  
Number of cycles run: 8254  
Number of cycles run: 8545  
Number of cycles run: 13369  
Number of cycles run: 11482  
Number of cycles run: 2472  
Number of cycles run: 11066  
Number of cycles run: 2282  
Number of cycles run: 2114  
Number of cycles run: 4972  
Av cycles for selfish strength 2.0 is 12712  
standard diviation is 13664.960244720653  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 11444  
Number of cycles run: 49145  
Number of cycles run: 20370  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 5443  
Number of cycles run: 5855  
Number of cycles run: 669  
Number of cycles run: 9564  
Number of cycles run: 571  
Number of cycles run: 10326  
Number of cycles run: 2956  
Number of cycles run: 9015  
Number of cycles run: 10988  
Number of cycles run: 2448  
Number of cycles run: 50000  
Number of cycles run: 11498  
Number of cycles run: 5183  
Number of cycles run: 9186  
Number of cycles run: 639  
Number of cycles run: 4494  
Number of cycles run: 8990  
Number of cycles run: 9152  
Number of cycles run: 11895  
Number of cycles run: 20971  
Number of cycles run: 9285  
Number of cycles run: 50000  
Number of cycles run: 19921  
Number of cycles run: 4581  
Number of cycles run: 10195  
Number of cycles run: 6495  
Number of cycles run: 7635  
Number of cycles run: 5512  
Number of cycles run: 43785  
Number of cycles run: 9457  
Number of cycles run: 50000  
Number of cycles run: 3787  
Number of cycles run: 700  
Number of cycles run: 48066  
Number of cycles run: 7453  
Number of cycles run: 33830  
Number of cycles run: 7907  
Number of cycles run: 3076  
Number of cycles run: 6353  
Number of cycles run: 8099  
Number of cycles run: 6229  
Number of cycles run: 9188  
Number of cycles run: 11994  
Number of cycles run: 50000  
Number of cycles run: 50000  
Av cycles for selfish strength 2.0 is 16687  
standard diviation is 17346.033713556444  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 17277  
Number of cycles run: 11844  
Number of cycles run: 32800  
Number of cycles run: 7782  
Number of cycles run: 5030  
Number of cycles run: 5028  
Number of cycles run: 11744  
Number of cycles run: 4210  
Number of cycles run: 13823  
Number of cycles run: 11544  
Number of cycles run: 11814  
Number of cycles run: 8866  
Number of cycles run: 9441  
Number of cycles run: 41547  
Number of cycles run: 5994  
Number of cycles run: 1004  
Number of cycles run: 12002  
Number of cycles run: 8283  
Number of cycles run: 50000  
Number of cycles run: 3608  
Number of cycles run: 12692  
Number of cycles run: 10120  
Number of cycles run: 10639  
Number of cycles run: 9379  
Number of cycles run: 20385  
Number of cycles run: 50000  
Number of cycles run: 8401  
Number of cycles run: 6693  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 15639  
Number of cycles run: 12244  
Number of cycles run: 40009  
Number of cycles run: 8045  
Number of cycles run: 50000  
Number of cycles run: 3146  
Number of cycles run: 50000  
Number of cycles run: 1040  
Number of cycles run: 14968  
Number of cycles run: 744  
Number of cycles run: 14580  
Number of cycles run: 44248  
Number of cycles run: 10136  
Number of cycles run: 6798  
Number of cycles run: 5753  
Number of cycles run: 7327  
Number of cycles run: 45081  
Number of cycles run: 10557  
Number of cycles run: 21295  
Av cycles for selfish strength 2.0 is 18271  
standard diviation is 16601.25436003348  
Testing average cycles for selfish strength 2.0  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 9703  
Number of cycles run: 50000  
Number of cycles run: 947  
Number of cycles run: 11289  
Number of cycles run: 7589  
Number of cycles run: 5021  
Number of cycles run: 6360  
Number of cycles run: 542  
Number of cycles run: 10854  
Number of cycles run: 1797  
Number of cycles run: 12417  
Number of cycles run: 2156  
Number of cycles run: 5414  
Number of cycles run: 23962  
Number of cycles run: 461  
Number of cycles run: 50000  
Number of cycles run: 7825  
Number of cycles run: 50000  
Number of cycles run: 7166  
Number of cycles run: 12993  
Number of cycles run: 11928  
Number of cycles run: 50000  
Number of cycles run: 2274  
Number of cycles run: 14211  
Number of cycles run: 16319  
Number of cycles run: 2851  
Number of cycles run: 12474  
Number of cycles run: 14369  
Number of cycles run: 613  
Number of cycles run: 7016  
Number of cycles run: 865  
Number of cycles run: 4954  
Number of cycles run: 2577  
Number of cycles run: 1098  
Number of cycles run: 3526  
Number of cycles run: 13464  
Number of cycles run: 50000  
Number of cycles run: 13161  
Number of cycles run: 12680  
Number of cycles run: 12639  
Number of cycles run: 9455  
Number of cycles run: 7882  
Number of cycles run: 2952  
Number of cycles run: 2692  
Number of cycles run: 716  
Number of cycles run: 50000  
Number of cycles run: 949  
Number of cycles run: 32080  
Av cycles for selfish strength 2.0 is 14604  
standard diviation is 16781.965606567068