Testing average cycles for selfish strength 0.5  
Number of cycles run: 5980  
Number of cycles run: 6774  
Number of cycles run: 7258  
Number of cycles run: 5490  
Number of cycles run: 11236  
Number of cycles run: 6350  
Number of cycles run: 50000  
Number of cycles run: 6196  
Number of cycles run: 15956  
Number of cycles run: 15120  
Number of cycles run: 17501  
Number of cycles run: 7351  
Number of cycles run: 50000  
Number of cycles run: 5092  
Number of cycles run: 5621  
Number of cycles run: 50000  
Number of cycles run: 7532  
Number of cycles run: 5549  
Number of cycles run: 5718  
Number of cycles run: 33324  
Number of cycles run: 8099  
Number of cycles run: 5971  
Number of cycles run: 13723  
Number of cycles run: 6987  
Number of cycles run: 9774  
Number of cycles run: 5988  
Number of cycles run: 9258  
Number of cycles run: 8560  
Number of cycles run: 6581  
Number of cycles run: 7517  
Number of cycles run: 6155  
Number of cycles run: 6593  
Number of cycles run: 7316  
Number of cycles run: 15688  
Number of cycles run: 7293  
Number of cycles run: 6527  
Number of cycles run: 6453  
Number of cycles run: 9508  
Number of cycles run: 9766  
Number of cycles run: 6672  
Number of cycles run: 50000  
Number of cycles run: 7838  
Number of cycles run: 6400  
Number of cycles run: 6504  
Number of cycles run: 6623  
Number of cycles run: 8437  
Number of cycles run: 10322  
Number of cycles run: 5713  
Number of cycles run: 6036  
Number of cycles run: 12691  
Av cycles for selfish strength 0.5 is 12060  
standard diviation is 12207.160322130781  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 11846  
Number of cycles run: 9100  
Number of cycles run: 9468  
Number of cycles run: 12597  
Number of cycles run: 7327  
Number of cycles run: 7574  
Number of cycles run: 6846  
Number of cycles run: 5744  
Number of cycles run: 6899  
Number of cycles run: 6804  
Number of cycles run: 6813  
Number of cycles run: 6802  
Number of cycles run: 50000  
Number of cycles run: 7093  
Number of cycles run: 26478  
Number of cycles run: 8413  
Number of cycles run: 50000  
Number of cycles run: 6828  
Number of cycles run: 8845  
Number of cycles run: 10160  
Number of cycles run: 7431  
Number of cycles run: 8271  
Number of cycles run: 7833  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 6136  
Number of cycles run: 12945  
Number of cycles run: 43666  
Number of cycles run: 6269  
Number of cycles run: 12953  
Number of cycles run: 26069  
Number of cycles run: 10514  
Number of cycles run: 50000  
Number of cycles run: 5095  
Number of cycles run: 8363  
Number of cycles run: 5218  
Number of cycles run: 7210  
Number of cycles run: 29636  
Number of cycles run: 6790  
Number of cycles run: 5182  
Number of cycles run: 6706  
Number of cycles run: 7252  
Number of cycles run: 16220  
Number of cycles run: 6851  
Number of cycles run: 8076  
Number of cycles run: 13670  
Number of cycles run: 23636  
Number of cycles run: 8096  
Number of cycles run: 5618  
Number of cycles run: 50000  
Av cycles for selfish strength 0.5 is 15426  
standard diviation is 14801.928114903663  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 7470  
Number of cycles run: 9172  
Number of cycles run: 7896  
Number of cycles run: 6331  
Number of cycles run: 8735  
Number of cycles run: 6291  
Number of cycles run: 5424  
Number of cycles run: 5690  
Number of cycles run: 7373  
Number of cycles run: 20598  
Number of cycles run: 7291  
Number of cycles run: 31104  
Number of cycles run: 8978  
Number of cycles run: 12277  
Number of cycles run: 5257  
Number of cycles run: 6846  
Number of cycles run: 5945  
Number of cycles run: 7981  
Number of cycles run: 37063  
Number of cycles run: 5688  
Number of cycles run: 9271  
Number of cycles run: 33242  
Number of cycles run: 6170  
Number of cycles run: 7286  
Number of cycles run: 6300  
Number of cycles run: 5749  
Number of cycles run: 7710  
Number of cycles run: 12820  
Number of cycles run: 6043  
Number of cycles run: 16147  
Number of cycles run: 6639  
Number of cycles run: 50000  
Number of cycles run: 11869  
Number of cycles run: 6555  
Number of cycles run: 7028  
Number of cycles run: 50000  
Number of cycles run: 9073  
Number of cycles run: 50000  
Number of cycles run: 11093  
Number of cycles run: 9336  
Number of cycles run: 7072  
Number of cycles run: 7417  
Number of cycles run: 10796  
Number of cycles run: 8040  
Number of cycles run: 6243  
Number of cycles run: 8348  
Number of cycles run: 8663  
Number of cycles run: 6500  
Number of cycles run: 7065  
Number of cycles run: 5988  
Av cycles for selfish strength 0.5 is 12237  
standard diviation is 11768.272281790873  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 6910  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 7585  
Number of cycles run: 10808  
Number of cycles run: 7098  
Number of cycles run: 6578  
Number of cycles run: 5752  
Number of cycles run: 9889  
Number of cycles run: 6997  
Number of cycles run: 6622  
Number of cycles run: 6260  
Number of cycles run: 6339  
Number of cycles run: 6723  
Number of cycles run: 50000  
Number of cycles run: 19267  
Number of cycles run: 7355  
Number of cycles run: 13789  
Number of cycles run: 7635  
Number of cycles run: 7004  
Number of cycles run: 6571  
Number of cycles run: 6218  
Number of cycles run: 9376  
Number of cycles run: 17799  
Number of cycles run: 5252  
Number of cycles run: 31673  
Number of cycles run: 6204  
Number of cycles run: 5762  
Number of cycles run: 5124  
Number of cycles run: 7289  
Number of cycles run: 7767  
Number of cycles run: 19496  
Number of cycles run: 6493  
Number of cycles run: 16715  
Number of cycles run: 6026  
Number of cycles run: 6880  
Number of cycles run: 12905  
Number of cycles run: 6365  
Number of cycles run: 14973  
Number of cycles run: 9196  
Number of cycles run: 7740  
Number of cycles run: 5430  
Number of cycles run: 9078  
Number of cycles run: 5787  
Number of cycles run: 8582  
Number of cycles run: 15224  
Number of cycles run: 10422  
Number of cycles run: 7730  
Number of cycles run: 5533  
Number of cycles run: 50000  
Av cycles for selfish strength 0.5 is 12524  
standard diviation is 12191.719347849781  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 5991  
Number of cycles run: 6480  
Number of cycles run: 7243  
Number of cycles run: 6559  
Number of cycles run: 7035  
Number of cycles run: 6346  
Number of cycles run: 6861  
Number of cycles run: 6699  
Number of cycles run: 6050  
Number of cycles run: 6513  
Number of cycles run: 13201  
Number of cycles run: 6348  
Number of cycles run: 12754  
Number of cycles run: 6428  
Number of cycles run: 7034  
Number of cycles run: 7278  
Number of cycles run: 14245  
Number of cycles run: 7147  
Number of cycles run: 5806  
Number of cycles run: 6403  
Number of cycles run: 8102  
Number of cycles run: 50000  
Number of cycles run: 19184  
Number of cycles run: 19833  
Number of cycles run: 5681  
Number of cycles run: 6004  
Number of cycles run: 9249  
Number of cycles run: 50000  
Number of cycles run: 5521  
Number of cycles run: 7091  
Number of cycles run: 14962  
Number of cycles run: 6069  
Number of cycles run: 50000  
Number of cycles run: 8520  
Number of cycles run: 6078  
Number of cycles run: 6884  
Number of cycles run: 16678  
Number of cycles run: 7955  
Number of cycles run: 5893  
Number of cycles run: 6069  
Number of cycles run: 5797  
Number of cycles run: 6126  
Number of cycles run: 6159  
Number of cycles run: 17547  
Number of cycles run: 23429  
Number of cycles run: 10728  
Number of cycles run: 6164  
Number of cycles run: 41827  
Number of cycles run: 7170  
Number of cycles run: 31091  
Av cycles for selfish strength 0.5 is 12364  
standard diviation is 11882.388845854255  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 9344  
Number of cycles run: 10272  
Number of cycles run: 6715  
Number of cycles run: 6523  
Number of cycles run: 17594  
Number of cycles run: 13697  
Number of cycles run: 5981  
Number of cycles run: 6989  
Number of cycles run: 9441  
Number of cycles run: 50000  
Number of cycles run: 10345  
Number of cycles run: 7801  
Number of cycles run: 9120  
Number of cycles run: 5814  
Number of cycles run: 8590  
Number of cycles run: 5379  
Number of cycles run: 6292  
Number of cycles run: 27250  
Number of cycles run: 9148  
Number of cycles run: 5337  
Number of cycles run: 7768  
Number of cycles run: 6960  
Number of cycles run: 10387

Number of cycles run: 50000  
Number of cycles run: 6384  
Number of cycles run: 6147  
Number of cycles run: 6233  
Number of cycles run: 7548  
Number of cycles run: 14302  
Number of cycles run: 6826  
Number of cycles run: 5477  
Number of cycles run: 15900  
Number of cycles run: 7872  
Number of cycles run: 50000  
Number of cycles run: 13547  
Number of cycles run: 9052  
Number of cycles run: 9290  
Number of cycles run: 5070  
Number of cycles run: 6404  
Number of cycles run: 7683  
Number of cycles run: 50000  
Number of cycles run: 9158  
Number of cycles run: 50000  
Number of cycles run: 17287  
Number of cycles run: 6052  
Number of cycles run: 50000  
Number of cycles run: 6387  
Number of cycles run: 13067  
Number of cycles run: 6569  
Number of cycles run: 6264  
Av cycles for selfish strength 0.5 is 13985  
standard diviation is 14020.056421383457  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 6238  
Number of cycles run: 8542  
Number of cycles run: 14992  
Number of cycles run: 7113  
Number of cycles run: 9338  
Number of cycles run: 6350  
Number of cycles run: 7039  
Number of cycles run: 14381  
Number of cycles run: 6203  
Number of cycles run: 6609  
Number of cycles run: 14548  
Number of cycles run: 8478  
Number of cycles run: 5935  
Number of cycles run: 10170  
Number of cycles run: 6894  
Number of cycles run: 50000  
Number of cycles run: 7611  
Number of cycles run: 5587  
Number of cycles run: 5659  
Number of cycles run: 10076  
Number of cycles run: 8824  
Number of cycles run: 50000  
Number of cycles run: 5069  
Number of cycles run: 6235  
Number of cycles run: 6650  
Number of cycles run: 5207  
Number of cycles run: 5708  
Number of cycles run: 39103  
Number of cycles run: 6721  
Number of cycles run: 19397  
Number of cycles run: 7144  
Number of cycles run: 6328  
Number of cycles run: 14349  
Number of cycles run: 6579  
Number of cycles run: 7200  
Number of cycles run: 6171  
Number of cycles run: 6285  
Number of cycles run: 50000  
Number of cycles run: 23876  
Number of cycles run: 8980  
Number of cycles run: 6691  
Number of cycles run: 5970  
Number of cycles run: 6695  
Number of cycles run: 24802  
Number of cycles run: 6086  
Number of cycles run: 7484  
Number of cycles run: 8223  
Number of cycles run: 6277  
Number of cycles run: 6036  
Number of cycles run: 5618  
Av cycles for selfish strength 0.5 is 11709  
standard diviation is 11531.47174898118  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 8919  
Number of cycles run: 5427  
Number of cycles run: 50000  
Number of cycles run: 26163  
Number of cycles run: 7188  
Number of cycles run: 7820  
Number of cycles run: 8315  
Number of cycles run: 6915  
Number of cycles run: 7336  
Number of cycles run: 13243  
Number of cycles run: 6079  
Number of cycles run: 10677  
Number of cycles run: 9723  
Number of cycles run: 6818  
Number of cycles run: 6514  
Number of cycles run: 7203  
Number of cycles run: 7002  
Number of cycles run: 14847  
Number of cycles run: 11954  
Number of cycles run: 5503  
Number of cycles run: 6931  
Number of cycles run: 20888  
Number of cycles run: 6991  
Number of cycles run: 7639  
Number of cycles run: 9512  
Number of cycles run: 8845  
Number of cycles run: 8747  
Number of cycles run: 6907  
Number of cycles run: 5613  
Number of cycles run: 32409  
Number of cycles run: 8175  
Number of cycles run: 6153  
Number of cycles run: 8011  
Number of cycles run: 19108  
Number of cycles run: 6208  
Number of cycles run: 15129  
Number of cycles run: 6070  
Number of cycles run: 14917  
Number of cycles run: 6409  
Number of cycles run: 5199  
Number of cycles run: 7313  
Number of cycles run: 6244  
Number of cycles run: 6847  
Number of cycles run: 5989  
Number of cycles run: 41163  
Number of cycles run: 7153  
Number of cycles run: 8189  
Number of cycles run: 9542  
Number of cycles run: 50000  
Number of cycles run: 7266  
Av cycles for selfish strength 0.5 is 11744  
standard diviation is 10509.404000285862  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 5661  
Number of cycles run: 6679  
Number of cycles run: 5569  
Number of cycles run: 9939  
Number of cycles run: 50000  
Number of cycles run: 6203  
Number of cycles run: 5000  
Number of cycles run: 6057  
Number of cycles run: 8834  
Number of cycles run: 17500  
Number of cycles run: 9144  
Number of cycles run: 13973  
Number of cycles run: 5786  
Number of cycles run: 16442  
Number of cycles run: 5956  
Number of cycles run: 26931  
Number of cycles run: 9780  
Number of cycles run: 6444  
Number of cycles run: 7166  
Number of cycles run: 19147  
Number of cycles run: 7079  
Number of cycles run: 8077  
Number of cycles run: 5275  
Number of cycles run: 8102  
Number of cycles run: 5704  
Number of cycles run: 14629  
Number of cycles run: 31439  
Number of cycles run: 7429  
Number of cycles run: 6273  
Number of cycles run: 6852  
Number of cycles run: 15964  
Number of cycles run: 7668  
Number of cycles run: 9473  
Number of cycles run: 6316  
Number of cycles run: 6601  
Number of cycles run: 5676  
Number of cycles run: 50000  
Number of cycles run: 20763  
Number of cycles run: 10724  
Number of cycles run: 6309  
Number of cycles run: 6847  
Number of cycles run: 5288  
Number of cycles run: 8680  
Number of cycles run: 16305  
Number of cycles run: 6811  
Number of cycles run: 9884  
Number of cycles run: 6884  
Number of cycles run: 6475  
Number of cycles run: 8005  
Number of cycles run: 6875  
Av cycles for selfish strength 0.5 is 11292  
standard diviation is 9756.861748219946  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 6294  
Number of cycles run: 8809  
Number of cycles run: 6465  
Number of cycles run: 8140  
Number of cycles run: 16476  
Number of cycles run: 17763  
Number of cycles run: 6296  
Number of cycles run: 5462  
Number of cycles run: 30197  
Number of cycles run: 12077  
Number of cycles run: 50000  
Number of cycles run: 6272  
Number of cycles run: 10355  
Number of cycles run: 7150  
Number of cycles run: 5382  
Number of cycles run: 6771  
Number of cycles run: 50000  
Number of cycles run: 17066  
Number of cycles run: 5497  
Number of cycles run: 50000  
Number of cycles run: 13106  
Number of cycles run: 6703  
Number of cycles run: 6128  
Number of cycles run: 11437  
Number of cycles run: 6132  
Number of cycles run: 7073  
Number of cycles run: 7003  
Number of cycles run: 6340  
Number of cycles run: 8012  
Number of cycles run: 9726  
Number of cycles run: 50000  
Number of cycles run: 26122  
Number of cycles run: 5175  
Number of cycles run: 5921  
Number of cycles run: 6599  
Number of cycles run: 6262  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 5886  
Number of cycles run: 7291  
Number of cycles run: 19786  
Number of cycles run: 7510  
Number of cycles run: 5857  
Number of cycles run: 6349  
Number of cycles run: 50000  
Number of cycles run: 8227  
Number of cycles run: 6536  
Number of cycles run: 6328  
Number of cycles run: 12817  
Number of cycles run: 8134  
Av cycles for selfish strength 0.5 is 15058  
standard diviation is 15141.59215977835