Testing average cycles for selfish strength 0.5  
Number of cycles run: 50000  
Number of cycles run: 674  
Number of cycles run: 5921  
Number of cycles run: 9306  
Number of cycles run: 6410  
Number of cycles run: 490  
Number of cycles run: 50000  
Number of cycles run: 14219  
Number of cycles run: 9481  
Number of cycles run: 6574  
Number of cycles run: 9049  
Number of cycles run: 21200  
Number of cycles run: 5701  
Number of cycles run: 4088  
Number of cycles run: 50000  
Number of cycles run: 6254  
Number of cycles run: 3232  
Number of cycles run: 6082  
Number of cycles run: 9808  
Number of cycles run: 1377  
Number of cycles run: 2356  
Number of cycles run: 6441  
Number of cycles run: 9334  
Number of cycles run: 50000  
Number of cycles run: 2837  
Number of cycles run: 5732  
Number of cycles run: 6601  
Number of cycles run: 41317  
Number of cycles run: 50000  
Number of cycles run: 922  
Number of cycles run: 2169  
Number of cycles run: 5779  
Number of cycles run: 7107  
Number of cycles run: 7118  
Number of cycles run: 16067  
Number of cycles run: 5517  
Number of cycles run: 15621  
Number of cycles run: 5599  
Number of cycles run: 5110  
Number of cycles run: 4017  
Number of cycles run: 6600  
Number of cycles run: 5421  
Number of cycles run: 4550  
Number of cycles run: 12711  
Number of cycles run: 9304  
Number of cycles run: 21640  
Number of cycles run: 8665  
Number of cycles run: 6259  
Number of cycles run: 33608  
Number of cycles run: 50000  
Av cycles for selfish strength 0.5 is 13565  
standard diviation is 15510.921583115265  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 11290  
Number of cycles run: 50000  
Number of cycles run: 9141  
Number of cycles run: 5702  
Number of cycles run: 15426  
Number of cycles run: 3316  
Number of cycles run: 8645  
Number of cycles run: 445  
Number of cycles run: 4171  
Number of cycles run: 518  
Number of cycles run: 5690  
Number of cycles run: 4161  
Number of cycles run: 8556  
Number of cycles run: 50000  
Number of cycles run: 38671  
Number of cycles run: 50000  
Number of cycles run: 18425  
Number of cycles run: 2610  
Number of cycles run: 15962  
Number of cycles run: 6771  
Number of cycles run: 9650  
Number of cycles run: 11174  
Number of cycles run: 7922  
Number of cycles run: 9806  
Number of cycles run: 2996  
Number of cycles run: 5543  
Number of cycles run: 37667  
Number of cycles run: 7956  
Number of cycles run: 843  
Number of cycles run: 6488  
Number of cycles run: 50000  
Number of cycles run: 11160  
Number of cycles run: 50000  
Number of cycles run: 12799  
Number of cycles run: 3927  
Number of cycles run: 6527  
Number of cycles run: 776  
Number of cycles run: 7272  
Number of cycles run: 50000  
Number of cycles run: 7282  
Number of cycles run: 608  
Number of cycles run: 50000  
Number of cycles run: 7946  
Number of cycles run: 9119  
Number of cycles run: 4362  
Number of cycles run: 2108  
Number of cycles run: 9609  
Number of cycles run: 737  
Number of cycles run: 10521  
Number of cycles run: 50000  
Av cycles for selfish strength 0.5 is 15085  
standard diviation is 17046.843591918914  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 15420  
Number of cycles run: 685  
Number of cycles run: 4476  
Number of cycles run: 10038  
Number of cycles run: 16731  
Number of cycles run: 1909  
Number of cycles run: 16312  
Number of cycles run: 12113  
Number of cycles run: 50000  
Number of cycles run: 7117  
Number of cycles run: 954  
Number of cycles run: 8297  
Number of cycles run: 7590  
Number of cycles run: 639  
Number of cycles run: 12047  
Number of cycles run: 9665  
Number of cycles run: 10012  
Number of cycles run: 14001  
Number of cycles run: 13808  
Number of cycles run: 33842  
Number of cycles run: 23651  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 3362  
Number of cycles run: 50000  
Number of cycles run: 1259  
Number of cycles run: 4997  
Number of cycles run: 26837  
Number of cycles run: 3434  
Number of cycles run: 4081  
Number of cycles run: 50000  
Number of cycles run: 8384  
Number of cycles run: 4365  
Number of cycles run: 519  
Number of cycles run: 50000  
Number of cycles run: 29094  
Number of cycles run: 5354  
Number of cycles run: 11835  
Number of cycles run: 8904  
Number of cycles run: 722  
Number of cycles run: 10923  
Number of cycles run: 17988  
Number of cycles run: 26698  
Number of cycles run: 13878  
Number of cycles run: 9282  
Number of cycles run: 31484  
Number of cycles run: 429  
Number of cycles run: 2006  
Number of cycles run: 7679  
Number of cycles run: 8364  
Av cycles for selfish strength 0.5 is 15223  
standard diviation is 15390.056458834793  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 13690  
Number of cycles run: 9076  
Number of cycles run: 1093  
Number of cycles run: 6137  
Number of cycles run: 50000  
Number of cycles run: 10066  
Number of cycles run: 4989  
Number of cycles run: 815  
Number of cycles run: 11570  
Number of cycles run: 4875  
Number of cycles run: 11170  
Number of cycles run: 15281  
Number of cycles run: 5737  
Number of cycles run: 1371  
Number of cycles run: 8640  
Number of cycles run: 683  
Number of cycles run: 6490  
Number of cycles run: 725  
Number of cycles run: 1915  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 27003  
Number of cycles run: 10031  
Number of cycles run: 47991  
Number of cycles run: 11305  
Number of cycles run: 7668  
Number of cycles run: 8398  
Number of cycles run: 6446  
Number of cycles run: 3264  
Number of cycles run: 6932  
Number of cycles run: 24336  
Number of cycles run: 50000  
Number of cycles run: 16029  
Number of cycles run: 7348  
Number of cycles run: 50000  
Number of cycles run: 7950  
Number of cycles run: 50000  
Number of cycles run: 2234  
Number of cycles run: 1036  
Number of cycles run: 5968  
Number of cycles run: 33815  
Number of cycles run: 13983  
Number of cycles run: 4247  
Number of cycles run: 11818  
Number of cycles run: 23284  
Number of cycles run: 11773  
Number of cycles run: 13638  
Number of cycles run: 15387  
Number of cycles run: 475  
Number of cycles run: 13266  
Av cycles for selfish strength 0.5 is 14998  
standard diviation is 15736.323871157432  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 7536  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 16459  
Number of cycles run: 9520  
Number of cycles run: 50000  
Number of cycles run: 3508  
Number of cycles run: 50000  
Number of cycles run: 6540  
Number of cycles run: 6224  
Number of cycles run: 10873  
Number of cycles run: 7273  
Number of cycles run: 4724  
Number of cycles run: 574  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 5264  
Number of cycles run: 7313  
Number of cycles run: 6991  
Number of cycles run: 11137  
Number of cycles run: 23291  
Number of cycles run: 18098  
Number of cycles run: 6534  
Number of cycles run: 10950  
Number of cycles run: 10492  
Number of cycles run: 2854  
Number of cycles run: 11889  
Number of cycles run: 50000  
Number of cycles run: 8650  
Number of cycles run: 16745  
Number of cycles run: 15819  
Number of cycles run: 11823  
Number of cycles run: 4064  
Number of cycles run: 7287  
Number of cycles run: 6380  
Number of cycles run: 40094  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 3813  
Number of cycles run: 11965  
Number of cycles run: 13674  
Number of cycles run: 50000  
Number of cycles run: 9110  
Number of cycles run: 6527  
Number of cycles run: 20594  
Number of cycles run: 50000  
Number of cycles run: 10120  
Number of cycles run: 50000  
Number of cycles run: 4182  
Av cycles for selfish strength 0.5 is 20577  
standard diviation is 18657.614772734352  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 19349  
Number of cycles run: 34668  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 505  
Number of cycles run: 4359  
Number of cycles run: 8007  
Number of cycles run: 497  
Number of cycles run: 9615  
Number of cycles run: 9346  
Number of cycles run: 37373  
Number of cycles run: 11632  
Number of cycles run: 8192  
Number of cycles run: 5245  
Number of cycles run: 50000  
Number of cycles run: 2811  
Number of cycles run: 39110  
Number of cycles run: 5998  
Number of cycles run: 460  
Number of cycles run: 9266  
Number of cycles run: 50000  
Number of cycles run: 4063  
Number of cycles run: 5060

Number of cycles run: 50000  
Number of cycles run: 5367  
Number of cycles run: 13694  
Number of cycles run: 12489  
Number of cycles run: 643  
Number of cycles run: 50000  
Number of cycles run: 6037  
Number of cycles run: 1174  
Number of cycles run: 12981  
Number of cycles run: 9623  
Number of cycles run: 23988  
Number of cycles run: 5071  
Number of cycles run: 50000  
Number of cycles run: 12432  
Number of cycles run: 44632  
Number of cycles run: 18499  
Number of cycles run: 7369  
Number of cycles run: 842  
Number of cycles run: 23855  
Number of cycles run: 9383  
Number of cycles run: 3564  
Number of cycles run: 37898  
Number of cycles run: 10193  
Number of cycles run: 4993  
Number of cycles run: 8992  
Number of cycles run: 5503  
Number of cycles run: 4469  
Av cycles for selfish strength 0.5 is 16984  
standard diviation is 17158.41895862179  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 14384  
Number of cycles run: 612  
Number of cycles run: 17151  
Number of cycles run: 703  
Number of cycles run: 6177  
Number of cycles run: 537  
Number of cycles run: 6231  
Number of cycles run: 50000  
Number of cycles run: 4060  
Number of cycles run: 20141  
Number of cycles run: 545  
Number of cycles run: 50000  
Number of cycles run: 9284  
Number of cycles run: 6491  
Number of cycles run: 9031  
Number of cycles run: 3336  
Number of cycles run: 20490  
Number of cycles run: 5736  
Number of cycles run: 1798  
Number of cycles run: 50000  
Number of cycles run: 28910  
Number of cycles run: 6115  
Number of cycles run: 7154  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 5545  
Number of cycles run: 29757  
Number of cycles run: 18363  
Number of cycles run: 16808  
Number of cycles run: 10058  
Number of cycles run: 18872  
Number of cycles run: 8591  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 14921  
Number of cycles run: 33406  
Number of cycles run: 600  
Number of cycles run: 9500  
Number of cycles run: 50000  
Number of cycles run: 7507  
Number of cycles run: 10215  
Number of cycles run: 50000  
Number of cycles run: 12688  
Number of cycles run: 6884  
Number of cycles run: 12181  
Number of cycles run: 4593  
Number of cycles run: 8307  
Number of cycles run: 7806  
Number of cycles run: 34050  
Av cycles for selfish strength 0.5 is 18790  
standard diviation is 17654.56778675544  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 24428  
Number of cycles run: 5548  
Number of cycles run: 9305  
Number of cycles run: 15816  
Number of cycles run: 4197  
Number of cycles run: 7124  
Number of cycles run: 11143  
Number of cycles run: 17934  
Number of cycles run: 50000  
Number of cycles run: 11365  
Number of cycles run: 4967  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 4622  
Number of cycles run: 12675  
Number of cycles run: 5220  
Number of cycles run: 6003  
Number of cycles run: 5288  
Number of cycles run: 9745  
Number of cycles run: 5286  
Number of cycles run: 13169  
Number of cycles run: 2275  
Number of cycles run: 6715  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 50000  
Number of cycles run: 8927  
Number of cycles run: 10733  
Number of cycles run: 4074  
Number of cycles run: 1699  
Number of cycles run: 3507  
Number of cycles run: 9224  
Number of cycles run: 14196  
Number of cycles run: 7034  
Number of cycles run: 10317  
Number of cycles run: 17338  
Number of cycles run: 8826  
Number of cycles run: 8817  
Number of cycles run: 10689  
Number of cycles run: 17709  
Number of cycles run: 50000  
Number of cycles run: 9801  
Number of cycles run: 10178  
Number of cycles run: 3685  
Number of cycles run: 6136  
Number of cycles run: 12452  
Number of cycles run: 8308  
Number of cycles run: 1234  
Number of cycles run: 8151  
Number of cycles run: 1654  
Av cycles for selfish strength 0.5 is 14550  
standard diviation is 15162.73641374317  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 8152  
Number of cycles run: 6576  
Number of cycles run: 50000  
Number of cycles run: 3678  
Number of cycles run: 25722  
Number of cycles run: 8697  
Number of cycles run: 2851  
Number of cycles run: 6085  
Number of cycles run: 13953  
Number of cycles run: 3861  
Number of cycles run: 10964  
Number of cycles run: 50000  
Number of cycles run: 4959  
Number of cycles run: 24289  
Number of cycles run: 50000  
Number of cycles run: 8272  
Number of cycles run: 50000  
Number of cycles run: 2897  
Number of cycles run: 9066  
Number of cycles run: 50000  
Number of cycles run: 5252  
Number of cycles run: 6635  
Number of cycles run: 5617  
Number of cycles run: 2132  
Number of cycles run: 4797  
Number of cycles run: 7103  
Number of cycles run: 50000  
Number of cycles run: 8089  
Number of cycles run: 6321  
Number of cycles run: 1740  
Number of cycles run: 32853  
Number of cycles run: 50000  
Number of cycles run: 600  
Number of cycles run: 13053  
Number of cycles run: 10620  
Number of cycles run: 8299  
Number of cycles run: 9623  
Number of cycles run: 50000  
Number of cycles run: 6403  
Number of cycles run: 9218  
Number of cycles run: 50000  
Number of cycles run: 12208  
Number of cycles run: 467  
Number of cycles run: 6341  
Number of cycles run: 6675  
Number of cycles run: 39336  
Number of cycles run: 1091  
Number of cycles run: 12472  
Number of cycles run: 8417  
Number of cycles run: 50000  
Av cycles for selfish strength 0.5 is 17307  
standard diviation is 18058.865945635924  
Testing average cycles for selfish strength 0.5  
Number of cycles run: 36083  
Number of cycles run: 4961  
Number of cycles run: 8013  
Number of cycles run: 50000  
Number of cycles run: 8975  
Number of cycles run: 10776  
Number of cycles run: 7936  
Number of cycles run: 886  
Number of cycles run: 5490  
Number of cycles run: 44662  
Number of cycles run: 479  
Number of cycles run: 9480  
Number of cycles run: 6730  
Number of cycles run: 1994  
Number of cycles run: 16078  
Number of cycles run: 26129  
Number of cycles run: 13307  
Number of cycles run: 12819  
Number of cycles run: 4656  
Number of cycles run: 13097  
Number of cycles run: 50000  
Number of cycles run: 21816  
Number of cycles run: 50000  
Number of cycles run: 13443  
Number of cycles run: 9095  
Number of cycles run: 8520  
Number of cycles run: 8490  
Number of cycles run: 7533  
Number of cycles run: 8937  
Number of cycles run: 50000  
Number of cycles run: 9739  
Number of cycles run: 38956  
Number of cycles run: 14455  
Number of cycles run: 50000  
Number of cycles run: 43926  
Number of cycles run: 46190  
Number of cycles run: 5978  
Number of cycles run: 5656  
Number of cycles run: 50000  
Number of cycles run: 5662  
Number of cycles run: 50000  
Number of cycles run: 437  
Number of cycles run: 50000  
Number of cycles run: 9265  
Number of cycles run: 34994  
Number of cycles run: 8476  
Number of cycles run: 13041  
Number of cycles run: 1711  
Number of cycles run: 9547  
Number of cycles run: 18120  
Av cycles for selfish strength 0.5 is 19530  
standard diviation is 17611.74225126231