Testing average cycles for leadership strength 2.0  
the leader1 dead using 2192  
the leader1 dead using 2192  
Number of cycles run: 7124  
  
  
Number of cycles run: 6010  
  
  
the leader1 dead using 514  
the leader1 dead using 514  
Number of cycles run: 6498  
  
  
the leader1 dead using 3624  
the leader1 dead using 3624  
Number of cycles run: 50000  
  
  
the leader1 dead using 3206  
Number of cycles run: 6971  
  
  
the leader1 dead using 780  
the leader1 dead using 780  
the leader1 dead using 780  
Number of cycles run: 6092  
  
  
the leader1 dead using 402  
the leader1 dead using 402  
Number of cycles run: 9082  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1260  
Number of cycles run: 6656  
  
  
the leader1 dead using 5646  
Number of cycles run: 7023  
  
  
Number of cycles run: 36475  
  
  
the leader1 dead using 25806  
the leader1 dead using 25806  
the leader1 dead using 25806  
Number of cycles run: 29093  
  
  
the leader1 dead using 637  
the leader1 dead using 637  
Number of cycles run: 5850  
  
  
the leader1 dead using 487  
Number of cycles run: 9573  
  
  
the leader1 dead using 516  
Number of cycles run: 50000  
  
  
the leader1 dead using 583  
the leader1 dead using 583  
Number of cycles run: 50000  
  
  
the leader1 dead using 729  
the leader1 dead using 729  
Number of cycles run: 50000  
  
  
the leader1 dead using 6668  
Number of cycles run: 6668  
  
  
the leader1 dead using 1033  
Number of cycles run: 8176  
  
  
the leader1 dead using 8939  
the leader1 dead using 8939  
the leader1 dead using 8939  
Number of cycles run: 18296  
  
  
Number of cycles run: 35504  
  
  
the leader1 dead using 8574  
the leader1 dead using 8574  
the leader1 dead using 8574  
Number of cycles run: 11288  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1028  
the leader1 dead using 1028  
the leader1 dead using 1028  
Number of cycles run: 11028  
  
  
Number of cycles run: 5812  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 7094  
  
  
Number of cycles run: 22182  
  
  
the leader1 dead using 3031  
the leader1 dead using 3031  
the leader1 dead using 3031  
Number of cycles run: 5119  
  
  
the leader1 dead using 451  
Number of cycles run: 12892  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6760  
Number of cycles run: 6760  
  
  
the leader1 dead using 1598  
the leader1 dead using 1598  
Number of cycles run: 50000  
  
  
the leader1 dead using 573  
Number of cycles run: 5444  
  
  
the leader1 dead using 509  
Number of cycles run: 50000  
  
  
the leader1 dead using 548  
the leader1 dead using 548  
Number of cycles run: 13081  
  
  
the leader1 dead using 466  
Number of cycles run: 16327  
  
  
the leader1 dead using 35088  
Number of cycles run: 50000  
  
  
the leader1 dead using 14242  
the leader1 dead using 14242  
the leader1 dead using 14242  
Number of cycles run: 20819  
  
  
the leader1 dead using 1003  
the leader1 dead using 1003  
Number of cycles run: 50000  
  
  
the leader1 dead using 450  
the leader1 dead using 450  
Number of cycles run: 11200  
  
  
the leader1 dead using 435  
the leader1 dead using 435  
the leader1 dead using 435  
Number of cycles run: 50000  
  
  
the leader1 dead using 8306  
the leader1 dead using 8306  
Number of cycles run: 8720  
  
  
the leader1 dead using 15914  
Number of cycles run: 50000  
  
  
the leader1 dead using 3460  
the leader1 dead using 3460  
the leader1 dead using 3460  
the leader1 dead using 3460  
Number of cycles run: 5166  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4161  
the leader1 dead using 4161  
Number of cycles run: 6517  
  
  
Number of cycles run: 7129  
  
  
the leader1 dead using 1145  
the leader1 dead using 1145  
Number of cycles run: 50000  
  
  
the leader1 dead using 9868  
the leader1 dead using 9868  
the leader1 dead using 9868  
Number of cycles run: 13057  
  
  
Av cycles for leadership strength 2.0 is 23894  
standard diviation is 19329.98568708361  
Testing average cycles for leadership strength 2.0  
the leader1 dead using 1561  
Number of cycles run: 8727  
  
  
the leader1 dead using 567  
the leader1 dead using 567  
Number of cycles run: 34672  
  
  
Number of cycles run: 6457  
  
  
the leader1 dead using 411  
the leader1 dead using 411  
the leader1 dead using 411  
the leader1 dead using 411  
the leader1 dead using 411  
Number of cycles run: 28969  
  
  
the leader1 dead using 467  
the leader1 dead using 467  
Number of cycles run: 29986  
  
  
the leader1 dead using 384  
Number of cycles run: 50000  
  
  
the leader1 dead using 4520  
the leader1 dead using 4520  
the leader1 dead using 4520  
Number of cycles run: 9350  
  
  
the leader1 dead using 3321  
the leader1 dead using 3321  
the leader1 dead using 3321  
the leader1 dead using 3321  
Number of cycles run: 5385  
  
  
the leader1 dead using 6670  
the leader1 dead using 6670  
Number of cycles run: 6843  
  
  
the leader1 dead using 3941  
Number of cycles run: 5829  
  
  
the leader1 dead using 362  
Number of cycles run: 50000  
  
  
the leader1 dead using 1156  
the leader1 dead using 1156  
the leader1 dead using 1156  
Number of cycles run: 8688  
  
  
the leader1 dead using 560  
Number of cycles run: 5601  
  
  
the leader1 dead using 385  
Number of cycles run: 10491  
  
  
the leader1 dead using 477  
the leader1 dead using 477  
Number of cycles run: 50000  
  
  
the leader1 dead using 4551  
the leader1 dead using 4551  
the leader1 dead using 4551  
the leader1 dead using 4551  
Number of cycles run: 7598  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 459  
the leader1 dead using 459  
Number of cycles run: 7441  
  
  
the leader1 dead using 2072  
the leader1 dead using 2072  
Number of cycles run: 7523  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 628  
the leader1 dead using 628  
Number of cycles run: 29556  
  
  
the leader1 dead using 1267  
the leader1 dead using 1267  
Number of cycles run: 5700  
  
  
Number of cycles run: 38365  
  
  
the leader1 dead using 402  
the leader1 dead using 402  
Number of cycles run: 50000  
  
  
Number of cycles run: 9412  
  
  
Number of cycles run: 15214  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3897  
the leader1 dead using 3897  
Number of cycles run: 6398  
  
  
the leader1 dead using 2364  
the leader1 dead using 2364  
the leader1 dead using 2364  
the leader1 dead using 2364  
Number of cycles run: 6528  
  
  
the leader1 dead using 1134  
Number of cycles run: 11178  
  
  
the leader1 dead using 1649  
Number of cycles run: 5363  
  
  
the leader1 dead using 1876  
the leader1 dead using 1876  
Number of cycles run: 11096  
  
  
the leader1 dead using 509  
the leader1 dead using 509  
Number of cycles run: 6685  
  
  
the leader1 dead using 12152  
the leader1 dead using 12152  
Number of cycles run: 13693  
  
  
the leader1 dead using 12017  
Number of cycles run: 50000  
  
  
the leader1 dead using 574  
the leader1 dead using 574  
the leader1 dead using 574  
Number of cycles run: 5922  
  
  
the leader1 dead using 2184  
the leader1 dead using 2184  
the leader1 dead using 2184  
Number of cycles run: 10618  
  
  
the leader1 dead using 1356  
the leader1 dead using 1356  
the leader1 dead using 1356  
Number of cycles run: 6215  
  
  
the leader1 dead using 4216  
the leader1 dead using 4216  
the leader1 dead using 4216  
Number of cycles run: 6623  
  
  
the leader1 dead using 1696  
the leader1 dead using 1696  
Number of cycles run: 6296  
  
  
the leader1 dead using 458  
the leader1 dead using 458  
Number of cycles run: 19413  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 456  
the leader1 dead using 456  
Number of cycles run: 5759  
  
  
Number of cycles run: 8751  
  
  
the leader1 dead using 5265  
Number of cycles run: 6675  
  
  
the leader1 dead using 1074  
Number of cycles run: 50000  
  
  
the leader1 dead using 6426  
Number of cycles run: 6426  
  
  
the leader1 dead using 410  
Number of cycles run: 50000  
  
  
the leader1 dead using 1024  
Number of cycles run: 10606  
  
  
the leader1 dead using 511  
the leader1 dead using 511  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 2.0 is 20721  
standard diviation is 18305.54128099478  
Testing average cycles for leadership strength 2.0  
Number of cycles run: 6426  
  
  
the leader1 dead using 569  
the leader1 dead using 569  
Number of cycles run: 7097  
  
  
the leader1 dead using 5679  
Number of cycles run: 50000  
  
  
the leader1 dead using 471  
the leader1 dead using 471  
the leader1 dead using 471  
Number of cycles run: 6740  
  
  
Number of cycles run: 32226  
  
  
the leader1 dead using 4475  
the leader1 dead using 4475  
the leader1 dead using 4475  
the leader1 dead using 4475  
Number of cycles run: 5703

the leader1 dead using 911  
the leader1 dead using 911  
the leader1 dead using 911  
the leader1 dead using 911  
Number of cycles run: 46295  
  
  
Number of cycles run: 8503  
  
  
the leader1 dead using 518  
the leader1 dead using 518  
Number of cycles run: 26378  
  
  
the leader1 dead using 3882  
Number of cycles run: 6249  
  
  
the leader1 dead using 23882  
Number of cycles run: 39907  
  
  
the leader1 dead using 601  
Number of cycles run: 50000  
  
  
the leader1 dead using 11309  
the leader1 dead using 11309  
the leader1 dead using 11309  
Number of cycles run: 15870  
  
  
the leader1 dead using 493  
Number of cycles run: 18155  
  
  
Number of cycles run: 6146  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 7130  
  
  
the leader1 dead using 7910  
Number of cycles run: 50000  
  
  
Number of cycles run: 36369  
  
  
the leader1 dead using 2636  
the leader1 dead using 2636  
the leader1 dead using 2636  
Number of cycles run: 6971  
  
  
the leader1 dead using 1585  
the leader1 dead using 1585  
Number of cycles run: 6550  
  
  
Number of cycles run: 24598  
  
  
the leader1 dead using 494  
Number of cycles run: 50000  
  
  
Number of cycles run: 6866  
  
  
the leader1 dead using 871  
Number of cycles run: 50000  
  
  
the leader1 dead using 2297  
the leader1 dead using 2297  
the leader1 dead using 2297  
Number of cycles run: 6896  
  
  
the leader1 dead using 598  
the leader1 dead using 598  
Number of cycles run: 17924  
  
  
the leader1 dead using 1136  
Number of cycles run: 7149  
  
  
the leader1 dead using 3820  
Number of cycles run: 15102  
  
  
Number of cycles run: 5719  
  
  
the leader1 dead using 2760  
Number of cycles run: 6649  
  
  
the leader1 dead using 2130  
the leader1 dead using 2130  
Number of cycles run: 4535  
  
  
the leader1 dead using 2620  
the leader1 dead using 2620  
the leader1 dead using 2620  
the leader1 dead using 2620  
the leader1 dead using 2620  
Number of cycles run: 18559  
  
  
the leader1 dead using 677  
Number of cycles run: 50000  
  
  
Number of cycles run: 48173  
  
  
the leader1 dead using 1736  
the leader1 dead using 1736  
Number of cycles run: 7602  
  
  
the leader1 dead using 20477  
Number of cycles run: 20705  
  
  
the leader1 dead using 917  
the leader1 dead using 917  
the leader1 dead using 917  
Number of cycles run: 6447  
  
  
the leader1 dead using 1883  
the leader1 dead using 1883  
the leader1 dead using 1883  
Number of cycles run: 24821  
  
  
the leader1 dead using 13030  
the leader1 dead using 13030  
the leader1 dead using 13030  
Number of cycles run: 50000  
  
  
the leader1 dead using 461  
Number of cycles run: 50000  
  
  
the leader1 dead using 1107  
the leader1 dead using 1107  
the leader1 dead using 1107  
Number of cycles run: 50000  
  
  
Number of cycles run: 5390  
  
  
Number of cycles run: 6036  
  
  
Number of cycles run: 5993  
  
  
the leader1 dead using 428  
the leader1 dead using 428  
Number of cycles run: 7383  
  
  
the leader1 dead using 1006  
Number of cycles run: 6639  
  
  
the leader1 dead using 1010  
Number of cycles run: 6968  
  
  
the leader1 dead using 441  
the leader1 dead using 441  
Number of cycles run: 8467  
  
  
the leader1 dead using 978  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 2.0 is 22026  
standard diviation is 18407.880235843095  
Testing average cycles for leadership strength 2.0  
the leader1 dead using 415  
the leader1 dead using 415  
the leader1 dead using 415  
the leader1 dead using 415  
Number of cycles run: 18095  
  
  
the leader1 dead using 551  
the leader1 dead using 551  
the leader1 dead using 551  
Number of cycles run: 5457  
  
  
the leader1 dead using 406  
the leader1 dead using 406  
the leader1 dead using 406  
the leader1 dead using 406  
Number of cycles run: 11171  
  
  
the leader1 dead using 720  
the leader1 dead using 720  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 735  
Number of cycles run: 6534  
  
  
the leader1 dead using 3175  
the leader1 dead using 3175  
Number of cycles run: 22201  
  
  
the leader1 dead using 3120  
the leader1 dead using 3120  
the leader1 dead using 3120  
Number of cycles run: 10690  
  
  
the leader1 dead using 453  
the leader1 dead using 453  
the leader1 dead using 453  
the leader1 dead using 453  
Number of cycles run: 6079  
  
  
the leader1 dead using 492  
the leader1 dead using 492  
the leader1 dead using 492  
Number of cycles run: 7246  
  
  
the leader1 dead using 497  
Number of cycles run: 10078  
  
  
the leader1 dead using 530  
the leader1 dead using 530  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1586  
the leader1 dead using 1586  
Number of cycles run: 5989  
  
  
Number of cycles run: 10317  
  
  
the leader1 dead using 214  
the leader1 dead using 214  
the leader1 dead using 214  
Number of cycles run: 22636  
  
  
the leader1 dead using 914  
Number of cycles run: 12745  
  
  
the leader1 dead using 6123  
the leader1 dead using 6123  
Number of cycles run: 7794  
  
  
the leader1 dead using 1069  
the leader1 dead using 1069  
the leader1 dead using 1069  
the leader1 dead using 1069  
the leader1 dead using 1069  
Number of cycles run: 6634  
  
  
Number of cycles run: 9949  
  
  
the leader1 dead using 7634  
Number of cycles run: 7762  
  
  
the leader1 dead using 3089  
the leader1 dead using 3089  
Number of cycles run: 7520  
  
  
the leader1 dead using 6214  
Number of cycles run: 6214  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 499  
the leader1 dead using 499  
Number of cycles run: 11025  
  
  
the leader1 dead using 1889  
Number of cycles run: 6054  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 531  
the leader1 dead using 531  
the leader1 dead using 531  
the leader1 dead using 531  
Number of cycles run: 47738  
  
  
the leader1 dead using 1456  
Number of cycles run: 50000  
  
  
the leader1 dead using 495  
Number of cycles run: 6834  
  
  
the leader1 dead using 3341  
the leader1 dead using 3341  
Number of cycles run: 50000  
  
  
the leader1 dead using 1715  
the leader1 dead using 1715  
Number of cycles run: 50000  
  
  
the leader1 dead using 398  
the leader1 dead using 398  
the leader1 dead using 398  
the leader1 dead using 398  
Number of cycles run: 8791  
  
  
the leader1 dead using 4655  
Number of cycles run: 8860  
  
  
the leader1 dead using 744  
the leader1 dead using 744  
Number of cycles run: 46298  
  
  
the leader1 dead using 436  
Number of cycles run: 8733  
  
  
the leader1 dead using 642  
Number of cycles run: 10499  
  
  
the leader1 dead using 10973  
the leader1 dead using 10973  
the leader1 dead using 10973  
the leader1 dead using 10973  
Number of cycles run: 29425  
  
  
the leader1 dead using 3054  
the leader1 dead using 3054  
the leader1 dead using 3054  
the leader1 dead using 3054  
the leader1 dead using 3054  
Number of cycles run: 5547  
  
  
the leader1 dead using 1556  
the leader1 dead using 1556  
the leader1 dead using 1556  
Number of cycles run: 7667  
  
  
the leader1 dead using 2473  
the leader1 dead using 2473  
Number of cycles run: 6265  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 4140  
the leader1 dead using 4140  
the leader1 dead using 4140  
the leader1 dead using 4140  
Number of cycles run: 5621  
  
  
the leader1 dead using 508  
the leader1 dead using 508  
the leader1 dead using 508  
the leader1 dead using 508  
the leader1 dead using 508  
the leader1 dead using 508  
Number of cycles run: 31093  
  
  
the leader1 dead using 6863  
Number of cycles run: 6863  
  
  
the leader1 dead using 4466  
the leader1 dead using 4466  
Number of cycles run: 7850  
  
  
the leader1 dead using 1003  
Number of cycles run: 7078  
  
  
the leader1 dead using 435  
the leader1 dead using 435  
the leader1 dead using 435  
the leader1 dead using 435  
Number of cycles run: 7691  
  
  
the leader1 dead using 905  
Number of cycles run: 50000  
  
  
Av cycles for leadership strength 2.0 is 21300  
standard diviation is 18622.680887266997  
Testing average cycles for leadership strength 2.0  
the leader1 dead using 5081  
the leader1 dead using 5081  
the leader1 dead using 5081  
the leader1 dead using 5081  
Number of cycles run: 14197  
  
  
the leader1 dead using 5598  
the leader1 dead using 5598  
Number of cycles run: 7207  
  
  
Number of cycles run: 21808  
  
  
Number of cycles run: 17922  
  
  
the leader1 dead using 7671  
the leader1 dead using 7671  
the leader1 dead using 7671  
Number of cycles run: 50000  
  
  
the leader1 dead using 394  
the leader1 dead using 394  
the leader1 dead using 394  
Number of cycles run: 50000  
  
  
the leader1 dead using 3833

the leader1 dead using 3833  
Number of cycles run: 6526  
  
  
the leader1 dead using 5700  
the leader1 dead using 5700  
Number of cycles run: 6600  
  
  
the leader1 dead using 4704  
the leader1 dead using 4704  
Number of cycles run: 5334  
  
  
Number of cycles run: 6393  
  
  
the leader1 dead using 553  
the leader1 dead using 553  
Number of cycles run: 5747  
  
  
the leader1 dead using 2092  
Number of cycles run: 5573  
  
  
the leader1 dead using 1793  
the leader1 dead using 1793  
Number of cycles run: 7707  
  
  
the leader1 dead using 1119  
the leader1 dead using 1119  
the leader1 dead using 1119  
Number of cycles run: 36541  
  
  
the leader1 dead using 837  
the leader1 dead using 837  
Number of cycles run: 9239  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1175  
the leader1 dead using 1175  
the leader1 dead using 1175  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6093  
the leader1 dead using 6093  
the leader1 dead using 6093  
Number of cycles run: 47176  
  
  
Number of cycles run: 38501  
  
  
the leader1 dead using 5836  
the leader1 dead using 5836  
Number of cycles run: 6060  
  
  
the leader1 dead using 2703  
the leader1 dead using 2703  
the leader1 dead using 2703  
the leader1 dead using 2703  
Number of cycles run: 50000  
  
  
the leader1 dead using 940  
the leader1 dead using 940  
Number of cycles run: 50000  
  
  
the leader1 dead using 3944  
the leader1 dead using 3944  
the leader1 dead using 3944  
Number of cycles run: 6592  
  
  
the leader1 dead using 2093  
Number of cycles run: 33142  
  
  
the leader1 dead using 444  
the leader1 dead using 444  
Number of cycles run: 29749  
  
  
the leader1 dead using 451  
the leader1 dead using 451  
Number of cycles run: 7543  
  
  
the leader1 dead using 6646  
the leader1 dead using 6646  
Number of cycles run: 10007  
  
  
the leader1 dead using 424  
Number of cycles run: 7773  
  
  
the leader1 dead using 9920  
the leader1 dead using 9920  
Number of cycles run: 11318  
  
  
the leader1 dead using 1605  
Number of cycles run: 5287  
  
  
the leader1 dead using 486  
the leader1 dead using 486  
Number of cycles run: 50000  
  
  
Number of cycles run: 9457  
  
  
the leader1 dead using 693  
Number of cycles run: 13500  
  
  
Number of cycles run: 3921  
  
  
Number of cycles run: 7352  
  
  
the leader1 dead using 887  
the leader1 dead using 887  
Number of cycles run: 6517  
  
  
the leader1 dead using 6017  
Number of cycles run: 6317  
  
  
the leader1 dead using 15019  
the leader1 dead using 15019  
Number of cycles run: 46782  
  
  
Number of cycles run: 5438  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 583  
the leader1 dead using 583  
the leader1 dead using 583  
Number of cycles run: 22970  
  
  
Number of cycles run: 36397  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 275  
Number of cycles run: 5066  
  
  
Number of cycles run: 29473  
  
  
the leader1 dead using 527  
the leader1 dead using 527  
Number of cycles run: 50000  
  
  
the leader1 dead using 403  
the leader1 dead using 403  
Number of cycles run: 16478  
  
  
the leader1 dead using 1839  
the leader1 dead using 1839  
Number of cycles run: 5987  
  
  
the leader1 dead using 597  
Number of cycles run: 5920  
  
  
Av cycles for leadership strength 2.0 is 22510  
standard diviation is 18510.7612624304  
Testing average cycles for leadership strength 2.0  
the leader1 dead using 406  
the leader1 dead using 406  
the leader1 dead using 406  
the leader1 dead using 406  
Number of cycles run: 6275  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 27632  
  
  
the leader1 dead using 501  
the leader1 dead using 501  
Number of cycles run: 8903  
  
  
the leader1 dead using 1711  
the leader1 dead using 1711  
Number of cycles run: 5662  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 772  
the leader1 dead using 772  
Number of cycles run: 50000  
  
  
the leader1 dead using 385  
Number of cycles run: 50000  
  
  
Number of cycles run: 10327  
  
  
the leader1 dead using 35871  
Number of cycles run: 35871  
  
  
the leader1 dead using 580  
the leader1 dead using 580  
Number of cycles run: 50000  
  
  
the leader1 dead using 498  
the leader1 dead using 498  
the leader1 dead using 498  
the leader1 dead using 498  
Number of cycles run: 8032  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 27287  
Number of cycles run: 27287  
  
  
the leader1 dead using 461  
Number of cycles run: 50000  
  
  
the leader1 dead using 1997  
Number of cycles run: 6597  
  
  
the leader1 dead using 4045  
Number of cycles run: 5251  
  
  
the leader1 dead using 4381  
the leader1 dead using 4381  
Number of cycles run: 5542  
  
  
the leader1 dead using 952  
Number of cycles run: 6948  
  
  
the leader1 dead using 4979  
the leader1 dead using 4979  
the leader1 dead using 4979  
the leader1 dead using 4979  
Number of cycles run: 9791  
  
  
the leader1 dead using 787  
Number of cycles run: 5528  
  
  
the leader1 dead using 514  
Number of cycles run: 37821  
  
  
the leader1 dead using 1331  
the leader1 dead using 1331  
Number of cycles run: 5171  
  
  
the leader1 dead using 12530  
the leader1 dead using 12530  
the leader1 dead using 12530  
Number of cycles run: 50000  
  
  
the leader1 dead using 1570  
the leader1 dead using 1570  
the leader1 dead using 1570  
the leader1 dead using 1570  
the leader1 dead using 1570  
Number of cycles run: 16698  
  
  
the leader1 dead using 5938  
Number of cycles run: 7665  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5371  
the leader1 dead using 5371  
Number of cycles run: 8150  
  
  
the leader1 dead using 2585  
Number of cycles run: 4706  
  
  
the leader1 dead using 535  
the leader1 dead using 535  
the leader1 dead using 535  
the leader1 dead using 535  
Number of cycles run: 6854  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6284  
Number of cycles run: 6284  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 690  
the leader1 dead using 690  
Number of cycles run: 30766  
  
  
the leader1 dead using 3020  
Number of cycles run: 6241  
  
  
the leader1 dead using 9898  
the leader1 dead using 9898  
the leader1 dead using 9898  
Number of cycles run: 23869  
  
  
the leader1 dead using 863  
the leader1 dead using 863  
Number of cycles run: 27001  
  
  
the leader1 dead using 3919  
Number of cycles run: 6425  
  
  
the leader1 dead using 1107  
the leader1 dead using 1107  
the leader1 dead using 1107  
the leader1 dead using 1107  
Number of cycles run: 5562  
  
  
the leader1 dead using 431  
the leader1 dead using 431  
Number of cycles run: 50000  
  
  
the leader1 dead using 2294  
the leader1 dead using 2294  
the leader1 dead using 2294  
Number of cycles run: 7860  
  
  
the leader1 dead using 10844  
the leader1 dead using 10844  
the leader1 dead using 10844  
Number of cycles run: 34031  
  
  
Number of cycles run: 6581  
  
  
Number of cycles run: 16185  
  
  
the leader1 dead using 3772  
the leader1 dead using 3772  
Number of cycles run: 11932  
  
  
the leader1 dead using 980  
the leader1 dead using 980  
the leader1 dead using 980  
the leader1 dead using 980  
Number of cycles run: 4825  
  
  
Av cycles for leadership strength 2.0 is 24885  
standard diviation is 19402.278280077084  
Testing average cycles for leadership strength 2.0  
Number of cycles run: 6718  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 1227  
the leader1 dead using 1227  
the leader1 dead using 1227  
Number of cycles run: 7817  
  
  
the leader1 dead using 4229  
the leader1 dead using 4229  
the leader1 dead using 4229  
Number of cycles run: 9386  
  
  
the leader1 dead using 1311  
the leader1 dead using 1311  
Number of cycles run: 6568  
  
  
the leader1 dead using 4541  
the leader1 dead using 4541  
the leader1 dead using 4541  
Number of cycles run: 6985  
  
  
the leader1 dead using 431  
the leader1 dead using 431  
Number of cycles run: 9624  
  
  
the leader1 dead using 487  
the leader1 dead using 487  
the leader1 dead using 487  
the leader1 dead using 487  
the leader1 dead using 487  
Number of cycles run: 6886  
  
  
the leader1 dead using 2038  
the leader1 dead using 2038  
Number of cycles run: 7337  
  
  
Number of cycles run: 5944  
  
  
the leader1 dead using 537  
Number of cycles run: 7336  
  
  
the leader1 dead using 23135  
the leader1 dead using 23135  
the leader1 dead using 23135  
Number of cycles run: 33712  
  
  
Number of cycles run: 6400  
  
  
the leader1 dead using 28171  
the leader1 dead using 28171

Number of cycles run: 35196  
  
  
the leader1 dead using 447  
the leader1 dead using 447  
the leader1 dead using 447  
Number of cycles run: 18747  
  
  
Number of cycles run: 7092  
  
  
the leader1 dead using 662  
the leader1 dead using 662  
Number of cycles run: 6340  
  
  
the leader1 dead using 3265  
the leader1 dead using 3265  
Number of cycles run: 5924  
  
  
the leader1 dead using 491  
Number of cycles run: 50000  
  
  
the leader1 dead using 581  
Number of cycles run: 10617  
  
  
the leader1 dead using 5253  
Number of cycles run: 7080  
  
  
the leader1 dead using 956  
Number of cycles run: 50000  
  
  
the leader1 dead using 3002  
Number of cycles run: 4607  
  
  
the leader1 dead using 3519  
the leader1 dead using 3519  
Number of cycles run: 7809  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 5530  
the leader1 dead using 5530  
Number of cycles run: 6134  
  
  
the leader1 dead using 514  
the leader1 dead using 514  
the leader1 dead using 514  
the leader1 dead using 514  
Number of cycles run: 5558  
  
  
the leader1 dead using 600  
the leader1 dead using 600  
Number of cycles run: 6991  
  
  
the leader1 dead using 447  
the leader1 dead using 447  
Number of cycles run: 8129  
  
  
the leader1 dead using 4117  
the leader1 dead using 4117  
the leader1 dead using 4117  
Number of cycles run: 6474  
  
  
Number of cycles run: 11314  
  
  
Number of cycles run: 47112  
  
  
the leader1 dead using 359  
Number of cycles run: 6066  
  
  
the leader1 dead using 455  
Number of cycles run: 50000  
  
  
the leader1 dead using 806  
the leader1 dead using 806  
the leader1 dead using 806  
Number of cycles run: 6045  
  
  
the leader1 dead using 19603  
Number of cycles run: 29220  
  
  
the leader1 dead using 964  
the leader1 dead using 964  
the leader1 dead using 964  
Number of cycles run: 5801  
  
  
Number of cycles run: 29377  
  
  
the leader1 dead using 3946  
Number of cycles run: 5744  
  
  
the leader1 dead using 419  
Number of cycles run: 7583  
  
  
the leader1 dead using 1043  
Number of cycles run: 9659  
  
  
the leader1 dead using 5052  
the leader1 dead using 5052  
Number of cycles run: 5727  
  
  
the leader1 dead using 879  
the leader1 dead using 879  
the leader1 dead using 879  
Number of cycles run: 13740  
  
  
the leader1 dead using 2370  
the leader1 dead using 2370  
Number of cycles run: 5502  
  
  
the leader1 dead using 592  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 873  
the leader1 dead using 873  
Number of cycles run: 50000  
  
  
the leader1 dead using 1179  
Number of cycles run: 19444  
  
  
the leader1 dead using 526  
the leader1 dead using 526  
the leader1 dead using 526  
Number of cycles run: 9326  
  
  
Av cycles for leadership strength 2.0 is 18261  
standard diviation is 17397.53950359601  
Testing average cycles for leadership strength 2.0  
Number of cycles run: 50000  
  
  
Number of cycles run: 7677  
  
  
the leader1 dead using 5975  
Number of cycles run: 7305  
  
  
Number of cycles run: 38661  
  
  
the leader1 dead using 5296  
the leader1 dead using 5296  
Number of cycles run: 6730  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 560  
Number of cycles run: 14562  
  
  
the leader1 dead using 3721  
the leader1 dead using 3721  
the leader1 dead using 3721  
Number of cycles run: 5916  
  
  
the leader1 dead using 510  
the leader1 dead using 510  
Number of cycles run: 6013  
  
  
the leader1 dead using 461  
Number of cycles run: 8392  
  
  
Number of cycles run: 8075  
  
  
the leader1 dead using 7722  
Number of cycles run: 9714  
  
  
the leader1 dead using 1061  
Number of cycles run: 6718  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 462  
Number of cycles run: 6686  
  
  
the leader1 dead using 13446  
Number of cycles run: 14083  
  
  
the leader1 dead using 250  
the leader1 dead using 250  
Number of cycles run: 50000  
  
  
the leader1 dead using 797  
Number of cycles run: 50000  
  
  
the leader1 dead using 2516  
Number of cycles run: 15837  
  
  
the leader1 dead using 6055  
the leader1 dead using 6055  
Number of cycles run: 13542  
  
  
the leader1 dead using 3515  
the leader1 dead using 3515  
the leader1 dead using 3515  
the leader1 dead using 3515  
Number of cycles run: 6528  
  
  
the leader1 dead using 413  
the leader1 dead using 413  
the leader1 dead using 413  
the leader1 dead using 413  
Number of cycles run: 9309  
  
  
the leader1 dead using 6211  
the leader1 dead using 6211  
the leader1 dead using 6211  
Number of cycles run: 16481  
  
  
the leader1 dead using 1836  
the leader1 dead using 1836  
Number of cycles run: 50000  
  
  
the leader1 dead using 684  
the leader1 dead using 684  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 6475  
the leader1 dead using 6475  
Number of cycles run: 7153  
  
  
the leader1 dead using 475  
Number of cycles run: 6531  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 485  
the leader1 dead using 485  
Number of cycles run: 50000  
  
  
the leader1 dead using 513  
Number of cycles run: 50000  
  
  
the leader1 dead using 381  
the leader1 dead using 381  
Number of cycles run: 6782  
  
  
the leader1 dead using 918  
Number of cycles run: 33634  
  
  
the leader1 dead using 579  
the leader1 dead using 579  
Number of cycles run: 50000  
  
  
the leader1 dead using 847  
the leader1 dead using 847  
the leader1 dead using 847  
Number of cycles run: 6800  
  
  
the leader1 dead using 6892  
Number of cycles run: 7077  
  
  
the leader1 dead using 6365  
the leader1 dead using 6365  
the leader1 dead using 6365  
Number of cycles run: 10706  
  
  
the leader1 dead using 23408  
Number of cycles run: 37092  
  
  
the leader1 dead using 998  
the leader1 dead using 998  
Number of cycles run: 5795  
  
  
the leader1 dead using 668  
the leader1 dead using 668  
the leader1 dead using 668  
Number of cycles run: 9428  
  
  
the leader1 dead using 1033  
the leader1 dead using 1033  
Number of cycles run: 41113  
  
  
the leader1 dead using 12048  
Number of cycles run: 12710  
  
  
the leader1 dead using 4277  
the leader1 dead using 4277  
the leader1 dead using 4277  
Number of cycles run: 7918  
  
  
Number of cycles run: 7985  
  
  
the leader1 dead using 1893  
Number of cycles run: 4727  
  
  
Number of cycles run: 21983  
  
  
the leader1 dead using 40362  
Number of cycles run: 40362  
  
  
the leader1 dead using 3244  
the leader1 dead using 3244  
Number of cycles run: 5084  
  
  
Number of cycles run: 7486  
  
  
Av cycles for leadership strength 2.0 is 22651  
standard diviation is 18794.503884250364  
Testing average cycles for leadership strength 2.0  
the leader1 dead using 4707  
the leader1 dead using 4707  
the leader1 dead using 4707  
Number of cycles run: 4707  
  
  
the leader1 dead using 435  
the leader1 dead using 435  
the leader1 dead using 435  
the leader1 dead using 435  
the leader1 dead using 435  
Number of cycles run: 27201  
  
  
the leader1 dead using 3813  
Number of cycles run: 21774  
  
  
the leader1 dead using 2650  
the leader1 dead using 2650  
Number of cycles run: 8482  
  
  
the leader1 dead using 5976  
Number of cycles run: 6227  
  
  
the leader1 dead using 4246  
the leader1 dead using 4246  
the leader1 dead using 4246  
Number of cycles run: 7305  
  
  
the leader1 dead using 769  
Number of cycles run: 11689  
  
  
the leader1 dead using 488  
Number of cycles run: 6714  
  
  
the leader1 dead using 1480  
the leader1 dead using 1480  
the leader1 dead using 1480  
the leader1 dead using 1480  
Number of cycles run: 39305  
  
  
the leader1 dead using 771  
Number of cycles run: 39169  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 402  
the leader1 dead using 402  
the leader1 dead using 402  
the leader1 dead using 402  
Number of cycles run: 6382  
  
  
the leader1 dead using 5660  
Number of cycles run: 7199  
  
  
the leader1 dead using 1206  
the leader1 dead using 1206  
Number of cycles run: 5002  
  
  
the leader1 dead using 3226  
the leader1 dead using 3226  
the leader1 dead using 3226  
Number of cycles run: 14297  
  
  
the leader1 dead using 499  
the leader1 dead using 499  
Number of cycles run: 4366  
  
  
the leader1 dead using 2895  
the leader1 dead using 2895  
Number of cycles run: 39144  
  
  
the leader1 dead using 1351  
the leader1 dead using 1351  
Number of cycles run: 5205  
  
  
Number of cycles run: 20681  
  
  
the leader1 dead using 1579  
the leader1 dead using 1579  
the leader1 dead using 1579  
Number of cycles run: 9449  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 546  
Number of cycles run: 6524  
  
  
the leader1 dead using 904  
the leader1 dead using 904

the leader1 dead using 904  
Number of cycles run: 7313  
  
  
the leader1 dead using 708  
the leader1 dead using 708  
the leader1 dead using 708  
the leader1 dead using 708  
Number of cycles run: 7139  
  
  
the leader1 dead using 959  
the leader1 dead using 959  
Number of cycles run: 29069  
  
  
Number of cycles run: 6970  
  
  
the leader1 dead using 633  
Number of cycles run: 50000  
  
  
the leader1 dead using 10965  
the leader1 dead using 10965  
Number of cycles run: 24052  
  
  
the leader1 dead using 2198  
the leader1 dead using 2198  
Number of cycles run: 5537  
  
  
the leader1 dead using 7519  
Number of cycles run: 7866  
  
  
the leader1 dead using 4969  
the leader1 dead using 4969  
Number of cycles run: 5824  
  
  
Number of cycles run: 6050  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3517  
Number of cycles run: 4966  
  
  
the leader1 dead using 22199  
Number of cycles run: 22199  
  
  
Number of cycles run: 7049  
  
  
Number of cycles run: 5915  
  
  
the leader1 dead using 1342  
the leader1 dead using 1342  
Number of cycles run: 6975  
  
  
the leader1 dead using 553  
Number of cycles run: 22225  
  
  
the leader1 dead using 1128  
the leader1 dead using 1128  
the leader1 dead using 1128  
the leader1 dead using 1128  
Number of cycles run: 41585  
  
  
Number of cycles run: 10591  
  
  
the leader1 dead using 504  
the leader1 dead using 504  
Number of cycles run: 50000  
  
  
Number of cycles run: 21566  
  
  
the leader1 dead using 4813  
the leader1 dead using 4813  
Number of cycles run: 6281  
  
  
the leader1 dead using 1457  
the leader1 dead using 1457  
Number of cycles run: 45898  
  
  
the leader1 dead using 3835  
the leader1 dead using 3835  
Number of cycles run: 6381  
  
  
the leader1 dead using 640  
the leader1 dead using 640  
Number of cycles run: 8248  
  
  
the leader1 dead using 3408  
Number of cycles run: 8696  
  
  
the leader1 dead using 260  
the leader1 dead using 260  
the leader1 dead using 260  
Number of cycles run: 50000  
  
  
Number of cycles run: 7675  
  
  
Av cycles for leadership strength 2.0 is 18337  
standard diviation is 16217.529523679881  
Testing average cycles for leadership strength 2.0  
the leader1 dead using 566  
the leader1 dead using 566  
Number of cycles run: 50000  
  
  
the leader1 dead using 2092  
the leader1 dead using 2092  
the leader1 dead using 2092  
Number of cycles run: 5729  
  
  
the leader1 dead using 599  
Number of cycles run: 4852  
  
  
the leader1 dead using 1575  
the leader1 dead using 1575  
Number of cycles run: 6505  
  
  
Number of cycles run: 7773  
  
  
the leader1 dead using 515  
the leader1 dead using 515  
the leader1 dead using 515  
Number of cycles run: 5742  
  
  
the leader1 dead using 462  
the leader1 dead using 462  
Number of cycles run: 19370  
  
  
the leader1 dead using 695  
the leader1 dead using 695  
Number of cycles run: 5046  
  
  
Number of cycles run: 18598  
  
  
the leader1 dead using 2431  
Number of cycles run: 7984  
  
  
the leader1 dead using 503  
the leader1 dead using 503  
the leader1 dead using 503  
the leader1 dead using 503  
Number of cycles run: 4844  
  
  
Number of cycles run: 35603  
  
  
the leader1 dead using 1745  
Number of cycles run: 20314  
  
  
Number of cycles run: 6286  
  
  
the leader1 dead using 623  
Number of cycles run: 6399  
  
  
the leader1 dead using 5318  
the leader1 dead using 5318  
Number of cycles run: 8199  
  
  
the leader1 dead using 452  
the leader1 dead using 452  
the leader1 dead using 452  
Number of cycles run: 5577  
  
  
the leader1 dead using 516  
the leader1 dead using 516  
Number of cycles run: 8193  
  
  
Number of cycles run: 6532  
  
  
the leader1 dead using 709  
the leader1 dead using 709  
the leader1 dead using 709  
Number of cycles run: 7029  
  
  
the leader1 dead using 914  
Number of cycles run: 50000  
  
  
the leader1 dead using 1368  
the leader1 dead using 1368  
Number of cycles run: 7576  
  
  
the leader1 dead using 829  
the leader1 dead using 829  
Number of cycles run: 7452  
  
  
the leader1 dead using 3183  
Number of cycles run: 6418  
  
  
the leader1 dead using 444  
the leader1 dead using 444  
Number of cycles run: 5836  
  
  
Number of cycles run: 7264  
  
  
the leader1 dead using 404  
the leader1 dead using 404  
Number of cycles run: 6382  
  
  
the leader1 dead using 1043  
the leader1 dead using 1043  
Number of cycles run: 6017  
  
  
Number of cycles run: 50000  
  
  
Number of cycles run: 7616  
  
  
the leader1 dead using 8425  
the leader1 dead using 8425  
the leader1 dead using 8425  
Number of cycles run: 13108  
  
  
the leader1 dead using 26280  
Number of cycles run: 26550  
  
  
the leader1 dead using 914  
Number of cycles run: 6994  
  
  
the leader1 dead using 390  
the leader1 dead using 390  
Number of cycles run: 6499  
  
  
the leader1 dead using 5226  
Number of cycles run: 5491  
  
  
Number of cycles run: 5906  
  
  
Number of cycles run: 35720  
  
  
the leader1 dead using 1860  
the leader1 dead using 1860  
the leader1 dead using 1860  
the leader1 dead using 1860  
the leader1 dead using 1860  
Number of cycles run: 5647  
  
  
the leader1 dead using 514  
the leader1 dead using 514  
Number of cycles run: 50000  
  
  
Number of cycles run: 4619  
  
  
the leader1 dead using 4587  
the leader1 dead using 4587  
the leader1 dead using 4587  
Number of cycles run: 8573  
  
  
Number of cycles run: 6102  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 3117  
Number of cycles run: 6009  
  
  
the leader1 dead using 446  
Number of cycles run: 5885  
  
  
the leader1 dead using 2684  
Number of cycles run: 4726  
  
  
the leader1 dead using 7016  
the leader1 dead using 7016  
Number of cycles run: 18681  
  
  
Number of cycles run: 6612  
  
  
Number of cycles run: 50000  
  
  
the leader1 dead using 367  
the leader1 dead using 367  
Number of cycles run: 6731  
  
  
Av cycles for leadership strength 2.0 is 14379  
standard diviation is 15040.678863166317