Python 3.6.3 |Anaconda, Inc.| (default, Oct 13 2017, 12:02:49)

[GCC 7.2.0] on linux

Type "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_S1.py =====

Testing average cycles for attraction strength 0.8

Number of cycles run: 547

Number of cycles run: 2665

Number of cycles run: 31653

Number of cycles run: 6151

Number of cycles run: 5752

Number of cycles run: 3939

Number of cycles run: 1616

Number of cycles run: 4484

Number of cycles run: 1349

Number of cycles run: 1885

Number of cycles run: 5279

Number of cycles run: 2329

Number of cycles run: 2453

Number of cycles run: 422

Number of cycles run: 3846

Number of cycles run: 9922

Number of cycles run: 5307

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6210

Number of cycles run: 50000

Number of cycles run: 2636

Number of cycles run: 2779

Number of cycles run: 2936

Number of cycles run: 1145

Number of cycles run: 2404

Number of cycles run: 756

Number of cycles run: 630

Number of cycles run: 50000

Number of cycles run: 38700

Number of cycles run: 1856

Number of cycles run: 3796

Number of cycles run: 8916

Number of cycles run: 5999

Number of cycles run: 12342

Number of cycles run: 23152

Number of cycles run: 50000

Number of cycles run: 1761

Number of cycles run: 4752

Number of cycles run: 19581

Number of cycles run: 1003

Number of cycles run: 2406

Number of cycles run: 4039

Number of cycles run: 870

Number of cycles run: 3745

Number of cycles run: 13743

Number of cycles run: 5128

Number of cycles run: 2116

Number of cycles run: 1572

Number of cycles run: 2507

Number of cycles run: 5051

Number of cycles run: 8632

Number of cycles run: 5690

Number of cycles run: 624

Number of cycles run: 50000

Number of cycles run: 546

Number of cycles run: 3958

Number of cycles run: 50000

Number of cycles run: 2104

Number of cycles run: 11571

Number of cycles run: 50000

Number of cycles run: 3713

Number of cycles run: 4591

Number of cycles run: 3740

Number of cycles run: 4651

Number of cycles run: 2629

Number of cycles run: 6964

Number of cycles run: 6986

Number of cycles run: 1445

Number of cycles run: 779

Number of cycles run: 2011

Number of cycles run: 2780

Number of cycles run: 1177

Number of cycles run: 4799

Number of cycles run: 3536

Number of cycles run: 11736

Number of cycles run: 2715

Number of cycles run: 3616

Number of cycles run: 1500

Number of cycles run: 3210

Number of cycles run: 10180

Number of cycles run: 15035

Number of cycles run: 2974

Number of cycles run: 5943

Number of cycles run: 1096

Number of cycles run: 50000

Number of cycles run: 4540

Number of cycles run: 5714

Number of cycles run: 1134

Number of cycles run: 22907

Number of cycles run: 9187

Number of cycles run: 1004

Number of cycles run: 1791

Number of cycles run: 6102

Number of cycles run: 3894

Number of cycles run: 2563

Number of cycles run: 1648

Number of cycles run: 3963

Number of cycles run: 3204

Number of cycles run: 9363

Av cycles for attraction strength 0.8 is 9400

standard diviation is 14189.9588459

Testing average cycles for attraction strength 0.8

Number of cycles run: 2153

Number of cycles run: 3711

Number of cycles run: 5536

Number of cycles run: 6439

Number of cycles run: 1276

Number of cycles run: 6108

Number of cycles run: 2572

Number of cycles run: 7486

Number of cycles run: 3225

Number of cycles run: 2756

Number of cycles run: 498

Number of cycles run: 50000

Number of cycles run: 2441

Number of cycles run: 2093

Number of cycles run: 3267

Number of cycles run: 2753

Number of cycles run: 1075

Number of cycles run: 881

Number of cycles run: 1118

Number of cycles run: 14695

Number of cycles run: 4261

Number of cycles run: 1941

Number of cycles run: 5648

Number of cycles run: 3258

Number of cycles run: 3766

Number of cycles run: 2487

Number of cycles run: 10368

Number of cycles run: 5297

Number of cycles run: 50000

Number of cycles run: 1011

Number of cycles run: 5147

Number of cycles run: 4569

Number of cycles run: 898

Number of cycles run: 926

Number of cycles run: 50000

Number of cycles run: 373

Number of cycles run: 926

Number of cycles run: 3563

Number of cycles run: 3312

Number of cycles run: 50000

Number of cycles run: 3087

Number of cycles run: 14499

Number of cycles run: 4660

Number of cycles run: 50000

Number of cycles run: 2926

Number of cycles run: 6407

Number of cycles run: 2221

Number of cycles run: 5022

Number of cycles run: 6103

Number of cycles run: 4061

Number of cycles run: 4619

Number of cycles run: 3988

Number of cycles run: 3715

Number of cycles run: 1510

Number of cycles run: 24794

Number of cycles run: 13153

Number of cycles run: 50000

Number of cycles run: 2447

Number of cycles run: 616

Number of cycles run: 47050

Number of cycles run: 8513

Number of cycles run: 4152

Number of cycles run: 2145

Number of cycles run: 2705

Number of cycles run: 2670

Number of cycles run: 17701

Number of cycles run: 12442

Number of cycles run: 792

Number of cycles run: 50000

Number of cycles run: 5248

Number of cycles run: 3298

Number of cycles run: 8478

Number of cycles run: 3867

Number of cycles run: 2755

Number of cycles run: 1197

Number of cycles run: 2598

Number of cycles run: 450

Number of cycles run: 3410

Number of cycles run: 6318

Number of cycles run: 3531

Number of cycles run: 3989

Number of cycles run: 1646

Number of cycles run: 7202

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6629

Number of cycles run: 50000

Number of cycles run: 1275

Number of cycles run: 50000

Number of cycles run: 6974

Number of cycles run: 7307

Number of cycles run: 3530

Number of cycles run: 3019

Number of cycles run: 7231

Number of cycles run: 10893

Number of cycles run: 3912

Number of cycles run: 3841

Number of cycles run: 7505

Number of cycles run: 3954

Number of cycles run: 40012

Av cycles for attraction strength 0.8 is 10399

standard diviation is 15495.7268052

Testing average cycles for attraction strength 0.8

Number of cycles run: 50000

Number of cycles run: 1610

Number of cycles run: 1831

Number of cycles run: 5946

Number of cycles run: 5083

Number of cycles run: 13167

Number of cycles run: 2042

Number of cycles run: 5116

Number of cycles run: 1994

Number of cycles run: 2594

Number of cycles run: 2768

Number of cycles run: 2208

Number of cycles run: 50000

Number of cycles run: 6989

Number of cycles run: 4714

Number of cycles run: 11267

Number of cycles run: 28823

Number of cycles run: 3448

Number of cycles run: 1349

Number of cycles run: 6042

Number of cycles run: 36277

Number of cycles run: 984

Number of cycles run: 1203

Number of cycles run: 3716

Number of cycles run: 398

Number of cycles run: 1960

Number of cycles run: 50000

Number of cycles run: 2824

Number of cycles run: 2980

Number of cycles run: 3723

Number of cycles run: 2119

Number of cycles run: 1164

Number of cycles run: 1849

Number of cycles run: 9150

Number of cycles run: 3031

Number of cycles run: 2512

Number of cycles run: 1336

Number of cycles run: 450

Number of cycles run: 637

Number of cycles run: 2412

Number of cycles run: 2379

Number of cycles run: 2398

Number of cycles run: 1352

Number of cycles run: 3499

Number of cycles run: 3131

Number of cycles run: 8318

Number of cycles run: 6018

Number of cycles run: 10820

Number of cycles run: 2838

Number of cycles run: 2674

Number of cycles run: 1251

Number of cycles run: 1898

Number of cycles run: 2899

Number of cycles run: 16255

Number of cycles run: 5801

Number of cycles run: 4258

Number of cycles run: 2977

Number of cycles run: 1994

Number of cycles run: 1327

Number of cycles run: 898

Number of cycles run: 2050

Number of cycles run: 1003

Number of cycles run: 6167

Number of cycles run: 3812

Number of cycles run: 1744

Number of cycles run: 10195

Number of cycles run: 3316

Number of cycles run: 50000

Number of cycles run: 1211

Number of cycles run: 2483

Number of cycles run: 13203

Number of cycles run: 50000

Number of cycles run: 630

Number of cycles run: 2690

Number of cycles run: 2596

Number of cycles run: 17851

Number of cycles run: 7486

Number of cycles run: 1905

Number of cycles run: 2681

Number of cycles run: 931

Number of cycles run: 50000

Number of cycles run: 6545

Number of cycles run: 5899

Number of cycles run: 2427

Number of cycles run: 2929

Number of cycles run: 859

Number of cycles run: 894

Number of cycles run: 1591

Number of cycles run: 4015

Number of cycles run: 1192

Number of cycles run: 4816

Number of cycles run: 832

Number of cycles run: 1812

Number of cycles run: 5658

Number of cycles run: 3626

Number of cycles run: 475

Number of cycles run: 7968

Number of cycles run: 43616

Number of cycles run: 2880

Number of cycles run: 10704

Av cycles for attraction strength 0.8 is 7593

standard diviation is 12609.660544

Testing average cycles for attraction strength 0.8

Number of cycles run: 744

Number of cycles run: 18862

Number of cycles run: 2829

Number of cycles run: 29307

Number of cycles run: 1418

Number of cycles run: 1075

Number of cycles run: 2585

Number of cycles run: 10699

Number of cycles run: 2755

Number of cycles run: 36098

Number of cycles run: 5392

Number of cycles run: 853

Number of cycles run: 2229

Number of cycles run: 4449

Number of cycles run: 15800

Number of cycles run: 615

Number of cycles run: 2022

Number of cycles run: 2000

Number of cycles run: 460

Number of cycles run: 2289

Number of cycles run: 4177

Number of cycles run: 3625

Number of cycles run: 1304

Number of cycles run: 1549

Number of cycles run: 50000

Number of cycles run: 1050

Number of cycles run: 2668

Number of cycles run: 1725

Number of cycles run: 1408

Number of cycles run: 936

Number of cycles run: 5292

Number of cycles run: 453

Number of cycles run: 502

Number of cycles run: 5141

Number of cycles run: 1687

Number of cycles run: 34168

Number of cycles run: 9924

Number of cycles run: 9156

Number of cycles run: 3960

Number of cycles run: 772

Number of cycles run: 3393

Number of cycles run: 5761

Number of cycles run: 50000

Number of cycles run: 5246

Number of cycles run: 20357

Number of cycles run: 1945

Number of cycles run: 3771

Number of cycles run: 49001

Number of cycles run: 6245

Number of cycles run: 1967

Number of cycles run: 1207

Number of cycles run: 2878

Number of cycles run: 2084

Number of cycles run: 3876

Number of cycles run: 50000

Number of cycles run: 4781

Number of cycles run: 4401

Number of cycles run: 2513

Number of cycles run: 1378

Number of cycles run: 2795

Number of cycles run: 4646

Number of cycles run: 17741

Number of cycles run: 399

Number of cycles run: 4385

Number of cycles run: 588

Number of cycles run: 10735

Number of cycles run: 1875

Number of cycles run: 9952

Number of cycles run: 1350

Number of cycles run: 7709

Number of cycles run: 797

Number of cycles run: 27731

Number of cycles run: 3572

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1804

Number of cycles run: 2181

Number of cycles run: 50000

Number of cycles run: 1296

Number of cycles run: 3768

Number of cycles run: 4460

Number of cycles run: 1103

Number of cycles run: 2306

Number of cycles run: 2639

Number of cycles run: 2277

Number of cycles run: 2954

Number of cycles run: 4895

Number of cycles run: 567

Number of cycles run: 2143

Number of cycles run: 959

Number of cycles run: 4599

Number of cycles run: 1451

Number of cycles run: 3698

Number of cycles run: 3236

Number of cycles run: 2272

Number of cycles run: 1557

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1706

Number of cycles run: 5145

Av cycles for attraction strength 0.8 is 9040

standard diviation is 14534.5992282

Testing average cycles for attraction strength 0.8

Number of cycles run: 715

Number of cycles run: 2655

Number of cycles run: 2550

Number of cycles run: 4210

Number of cycles run: 638

Number of cycles run: 1026

Number of cycles run: 3945

Number of cycles run: 7211

Number of cycles run: 1212

Number of cycles run: 2196

Number of cycles run: 4031

Number of cycles run: 2752

Number of cycles run: 7209

Number of cycles run: 50000

Number of cycles run: 3039

Number of cycles run: 24897

Number of cycles run: 1865

Number of cycles run: 5636

Number of cycles run: 4391

Number of cycles run: 2843

Number of cycles run: 50000

Number of cycles run: 4299

Number of cycles run: 3966

Number of cycles run: 1282

Number of cycles run: 2972

Number of cycles run: 50000

Number of cycles run: 774

Number of cycles run: 7310

Number of cycles run: 2957

Number of cycles run: 50000

Number of cycles run: 937

Number of cycles run: 1385

Number of cycles run: 50000

Number of cycles run: 4737

Number of cycles run: 5056

Number of cycles run: 2721

Number of cycles run: 1934

Number of cycles run: 1870

Number of cycles run: 901

Number of cycles run: 2754

Number of cycles run: 2060

Number of cycles run: 6505

Number of cycles run: 1902

Number of cycles run: 4077

Number of cycles run: 2291

Number of cycles run: 1682

Number of cycles run: 1951

Number of cycles run: 1110

Number of cycles run: 515

Number of cycles run: 541

Number of cycles run: 1772

Number of cycles run: 42410

Number of cycles run: 1902

Number of cycles run: 5150

Number of cycles run: 2029

Number of cycles run: 501

Number of cycles run: 50000

Number of cycles run: 1108

Number of cycles run: 3063

Number of cycles run: 16554

Number of cycles run: 50000

Number of cycles run: 2992

Number of cycles run: 4587

Number of cycles run: 1660

Number of cycles run: 7835

Number of cycles run: 2695

Number of cycles run: 3175

Number of cycles run: 13641

Number of cycles run: 1621

Number of cycles run: 2361

Number of cycles run: 1243

Number of cycles run: 3613

Number of cycles run: 50000

Number of cycles run: 1492

Number of cycles run: 2014

Number of cycles run: 6476

Number of cycles run: 980

Number of cycles run: 8868

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2791

Number of cycles run: 1793

Number of cycles run: 7021

Number of cycles run: 8340

Number of cycles run: 2743

Number of cycles run: 4511

Number of cycles run: 8028

Number of cycles run: 1389

Number of cycles run: 3412

Number of cycles run: 2059

Number of cycles run: 7574

Number of cycles run: 761

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3225

Number of cycles run: 2797

Number of cycles run: 589

Number of cycles run: 5509

Number of cycles run: 2772

Number of cycles run: 1820

Av cycles for attraction strength 0.8 is 9583

standard diviation is 15852.3040488

Testing average cycles for attraction strength 0.8

Number of cycles run: 811

Number of cycles run: 50000

Number of cycles run: 759

Number of cycles run: 6601

Number of cycles run: 4096

Number of cycles run: 2527

Number of cycles run: 3806

Number of cycles run: 2378

Number of cycles run: 8240

Number of cycles run: 1243

Number of cycles run: 1474

Number of cycles run: 7170

Number of cycles run: 5199

Number of cycles run: 1609

Number of cycles run: 666

Number of cycles run: 3589

Number of cycles run: 4730

Number of cycles run: 9913

Number of cycles run: 50000

Number of cycles run: 2150

Number of cycles run: 3089

Number of cycles run: 1307

Number of cycles run: 1572

Number of cycles run: 5954

Number of cycles run: 2772

Number of cycles run: 1820

Number of cycles run: 569

Number of cycles run: 2475

Number of cycles run: 7622

Number of cycles run: 710

Number of cycles run: 2841

Number of cycles run: 4456

Number of cycles run: 38164

Number of cycles run: 50000

Number of cycles run: 2248

Number of cycles run: 4165

Number of cycles run: 1564

Number of cycles run: 26487

Number of cycles run: 4890

Number of cycles run: 2133

Number of cycles run: 42505

Number of cycles run: 1930

Number of cycles run: 3870

Number of cycles run: 2314

Number of cycles run: 1473

Number of cycles run: 3216

Number of cycles run: 725

Number of cycles run: 13759

Number of cycles run: 50000

Number of cycles run: 5616

Number of cycles run: 1651

Number of cycles run: 1152

Number of cycles run: 2727

Number of cycles run: 797

Number of cycles run: 4313

Number of cycles run: 50000

Number of cycles run: 31937

Number of cycles run: 3670

Number of cycles run: 456

Number of cycles run: 445

Number of cycles run: 50000

Number of cycles run: 1909

Number of cycles run: 782

Number of cycles run: 3970

Number of cycles run: 4860

Number of cycles run: 1720

Number of cycles run: 16532

Number of cycles run: 2192

Number of cycles run: 6074

Number of cycles run: 15936

Number of cycles run: 2306

Number of cycles run: 761

Number of cycles run: 7543

Number of cycles run: 469

Number of cycles run: 4689

Number of cycles run: 2720

Number of cycles run: 1250

Number of cycles run: 7797

Number of cycles run: 16210

Number of cycles run: 530

Number of cycles run: 3995

Number of cycles run: 3084

Number of cycles run: 2526

Number of cycles run: 12048

Number of cycles run: 7855

Number of cycles run: 6898

Number of cycles run: 17635

Number of cycles run: 3496

Number of cycles run: 6045

Number of cycles run: 9672

Number of cycles run: 3396

Number of cycles run: 421

Number of cycles run: 8697

Number of cycles run: 2105

Number of cycles run: 1945

Number of cycles run: 2166

Number of cycles run: 4065

Number of cycles run: 7007

Number of cycles run: 4598

Number of cycles run: 2769

Av cycles for attraction strength 0.8 is 8130

standard diviation is 12804.0896545

Testing average cycles for attraction strength 0.8

Number of cycles run: 18748

Number of cycles run: 5045

Number of cycles run: 1234

Number of cycles run: 1780

Number of cycles run: 918

Number of cycles run: 50000

Number of cycles run: 2554

Number of cycles run: 1581

Number of cycles run: 924

Number of cycles run: 4493

Number of cycles run: 15932

Number of cycles run: 8184

Number of cycles run: 50000

Number of cycles run: 2056

Number of cycles run: 1771

Number of cycles run: 2033

Number of cycles run: 3259

Python 3.6.3 |Anaconda, Inc.| (default, Oct 13 2017, 12:02:49)

[GCC 7.2.0] on linux

Type "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_S2.py =====

Testing average cycles for attraction strength 0.8

Number of cycles run: 2150

Number of cycles run: 2343

Number of cycles run: 2179

Number of cycles run: 6824

Number of cycles run: 844

Number of cycles run: 857

Number of cycles run: 4036

Number of cycles run: 1755

Number of cycles run: 2108

Number of cycles run: 2207

Number of cycles run: 2834

Number of cycles run: 598

Number of cycles run: 6752

Number of cycles run: 1776

Number of cycles run: 4487

Number of cycles run: 1936

Number of cycles run: 9743

Number of cycles run: 3330

Number of cycles run: 2776

Number of cycles run: 4958

Number of cycles run: 436

Number of cycles run: 2851

Number of cycles run: 3761

Number of cycles run: 2271

Number of cycles run: 555

Number of cycles run: 653

Number of cycles run: 50000

Number of cycles run: 9839

Number of cycles run: 50000

Number of cycles run: 16681

Number of cycles run: 2343

Number of cycles run: 1426

Number of cycles run: 2887

Number of cycles run: 9338

Number of cycles run: 5467

Number of cycles run: 1691

Number of cycles run: 1206

Number of cycles run: 8925

Number of cycles run: 8209

Number of cycles run: 3398

Number of cycles run: 1318

Number of cycles run: 50000

Number of cycles run: 3231

Number of cycles run: 22764

Number of cycles run: 1871

Number of cycles run: 4961

Number of cycles run: 15787

Number of cycles run: 428

Number of cycles run: 1840

Number of cycles run: 571

Number of cycles run: 12729

Number of cycles run: 50000

Number of cycles run: 2989

Number of cycles run: 22144

Number of cycles run: 423

Number of cycles run: 4136

Number of cycles run: 560

Number of cycles run: 19233

Number of cycles run: 1119

Number of cycles run: 3197

Number of cycles run: 50000

Number of cycles run: 3122

Number of cycles run: 2555

Number of cycles run: 752

Number of cycles run: 3297

Number of cycles run: 2228

Number of cycles run: 1534

Number of cycles run: 17907

Number of cycles run: 21682

Number of cycles run: 3567

Number of cycles run: 17356

Number of cycles run: 6937

Number of cycles run: 7489

Number of cycles run: 17842

Number of cycles run: 759

Number of cycles run: 3876

Number of cycles run: 2803

Number of cycles run: 1516

Number of cycles run: 1374

Number of cycles run: 854

Number of cycles run: 2456

Number of cycles run: 13523

Number of cycles run: 2959

Number of cycles run: 41269

Number of cycles run: 3600

Number of cycles run: 2174

Number of cycles run: 1063

Number of cycles run: 2366

Number of cycles run: 6518

Number of cycles run: 21938

Number of cycles run: 5502

Number of cycles run: 5816

Number of cycles run: 1968

Number of cycles run: 5700

Number of cycles run: 2841

Number of cycles run: 8479

Number of cycles run: 4756

Number of cycles run: 511

Number of cycles run: 1818

Number of cycles run: 2697

Av cycles for attraction strength 0.8 is 7711

standard diviation is 11758.9748423

Testing average cycles for attraction strength 0.8

Number of cycles run: 4327

Number of cycles run: 2560

Number of cycles run: 50000

Number of cycles run: 7348

Number of cycles run: 1651

Number of cycles run: 50000

Number of cycles run: 3273

Number of cycles run: 2452

Number of cycles run: 645

Number of cycles run: 538

Number of cycles run: 422

Number of cycles run: 1430

Number of cycles run: 1820

Number of cycles run: 1888

Number of cycles run: 15287

Number of cycles run: 3934

Number of cycles run: 3570

Number of cycles run: 8147

Number of cycles run: 2059

Number of cycles run: 7400

Number of cycles run: 1277

Number of cycles run: 730

Number of cycles run: 4492

Number of cycles run: 1627

Number of cycles run: 690

Number of cycles run: 4408

Number of cycles run: 997

Number of cycles run: 3384

Number of cycles run: 5370

Number of cycles run: 10093

Number of cycles run: 1487

Number of cycles run: 1475

Number of cycles run: 1338

Number of cycles run: 50000

Number of cycles run: 1220

Number of cycles run: 22132

Number of cycles run: 3025

Number of cycles run: 8743

Number of cycles run: 1852

Number of cycles run: 467

Number of cycles run: 7193

Number of cycles run: 2199

Number of cycles run: 2235

Number of cycles run: 6337

Number of cycles run: 10054

Number of cycles run: 1775

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 13088

Number of cycles run: 3564

Number of cycles run: 1978

Number of cycles run: 1951

Number of cycles run: 18645

Number of cycles run: 29486

Number of cycles run: 752

Number of cycles run: 50000

Number of cycles run: 3449

Number of cycles run: 16529

Number of cycles run: 3032

Number of cycles run: 2724

Number of cycles run: 45022

Number of cycles run: 575

Number of cycles run: 2786

Number of cycles run: 4449

Number of cycles run: 3025

Number of cycles run: 1414

Number of cycles run: 990

Number of cycles run: 3369

Number of cycles run: 48013

Number of cycles run: 32993

Number of cycles run: 50000

Number of cycles run: 2274

Number of cycles run: 1900

Number of cycles run: 5186

Number of cycles run: 10874

Number of cycles run: 3250

Number of cycles run: 3749

Number of cycles run: 8553

Number of cycles run: 50000

Number of cycles run: 505

Number of cycles run: 947

Number of cycles run: 2064

Number of cycles run: 50000

Number of cycles run: 4236

Number of cycles run: 2827

Number of cycles run: 1619

Number of cycles run: 9133

Number of cycles run: 3940

Number of cycles run: 3974

Number of cycles run: 36956

Number of cycles run: 3281

Number of cycles run: 3359

Number of cycles run: 614

Number of cycles run: 700

Number of cycles run: 3189

Number of cycles run: 2028

Number of cycles run: 16059

Number of cycles run: 1695

Number of cycles run: 50000

Number of cycles run: 7160

Av cycles for attraction strength 0.8 is 10512

standard diviation is 15802.9819825

Testing average cycles for attraction strength 0.8

Number of cycles run: 2109

Number of cycles run: 729

Number of cycles run: 1201

Number of cycles run: 2669

Number of cycles run: 996

Number of cycles run: 794

Number of cycles run: 13623

Number of cycles run: 39119

Number of cycles run: 2691

Number of cycles run: 2853

Number of cycles run: 1953

Number of cycles run: 14066

Number of cycles run: 13480

Number of cycles run: 3538

Number of cycles run: 50000

Number of cycles run: 647

Number of cycles run: 16498

Number of cycles run: 1297

Number of cycles run: 4376

Number of cycles run: 8843

Number of cycles run: 20760

Number of cycles run: 50000

Number of cycles run: 2986

Number of cycles run: 905

Number of cycles run: 2551

Number of cycles run: 680

Number of cycles run: 49228

Number of cycles run: 4192

Number of cycles run: 6999

Number of cycles run: 1896

Number of cycles run: 446

Number of cycles run: 2463

Number of cycles run: 2862

Number of cycles run: 45926

Number of cycles run: 4424

Number of cycles run: 1747

Number of cycles run: 8666

Number of cycles run: 2013

Number of cycles run: 4111

Number of cycles run: 4065

Number of cycles run: 1541

Number of cycles run: 50000

Number of cycles run: 9073

Number of cycles run: 2601

Number of cycles run: 42569

Number of cycles run: 2488

Number of cycles run: 1749

Number of cycles run: 2231

Number of cycles run: 4173

Number of cycles run: 745

Number of cycles run: 50000

Number of cycles run: 3022

Number of cycles run: 25197

Number of cycles run: 1848

Number of cycles run: 4264

Number of cycles run: 6022

Number of cycles run: 1196

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 8606

Number of cycles run: 1225

Number of cycles run: 50000

Number of cycles run: 1460

Number of cycles run: 2521

Number of cycles run: 4255

Number of cycles run: 4550

Number of cycles run: 1871

Number of cycles run: 2095

Number of cycles run: 1721

Number of cycles run: 50000

Number of cycles run: 1132

Number of cycles run: 798

Number of cycles run: 2946

Number of cycles run: 2104

Number of cycles run: 5286

Number of cycles run: 583

Number of cycles run: 496

Number of cycles run: 9452

Number of cycles run: 4809

Number of cycles run: 3051

Number of cycles run: 583

Number of cycles run: 2025

Number of cycles run: 2028

Number of cycles run: 3788

Number of cycles run: 1876

Number of cycles run: 5267

Number of cycles run: 661

Number of cycles run: 2559

Number of cycles run: 2915

Number of cycles run: 5522

Number of cycles run: 2853

Number of cycles run: 10754

Number of cycles run: 8946

Number of cycles run: 1203

Number of cycles run: 944

Number of cycles run: 4896

Number of cycles run: 5973

Number of cycles run: 15026

Number of cycles run: 50000

Number of cycles run: 2181

Av cycles for attraction strength 0.8 is 9960

standard diviation is 15513.7137133

>>>