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\_S4.py =====

Testing average cycles for attraction strength 0.6

Number of cycles run: 2133

Number of cycles run: 4309

Number of cycles run: 50000

Number of cycles run: 448

Number of cycles run: 3820

Number of cycles run: 8481

Number of cycles run: 2902

Number of cycles run: 3251

Number of cycles run: 11266

Number of cycles run: 3402

Number of cycles run: 7094

Number of cycles run: 400

Number of cycles run: 1525

Number of cycles run: 17954

Number of cycles run: 2858

Number of cycles run: 6386

Number of cycles run: 2717

Number of cycles run: 2945

Number of cycles run: 14682

Number of cycles run: 2471

Number of cycles run: 1632

Number of cycles run: 4587

Number of cycles run: 1940

Number of cycles run: 450

Number of cycles run: 4855

Number of cycles run: 27157

Number of cycles run: 2218

Number of cycles run: 2238

Number of cycles run: 628

Number of cycles run: 2342

Number of cycles run: 3304

Number of cycles run: 3201

Number of cycles run: 4859

Number of cycles run: 3053

Number of cycles run: 474

Number of cycles run: 50000

Number of cycles run: 2141

Number of cycles run: 5554

Number of cycles run: 23887

Number of cycles run: 3922

Number of cycles run: 2770

Number of cycles run: 2831

Number of cycles run: 3049

Number of cycles run: 1326

Number of cycles run: 29432

Number of cycles run: 3819

Number of cycles run: 50000

Number of cycles run: 47676

Number of cycles run: 7492

Number of cycles run: 24503

Number of cycles run: 25207

Number of cycles run: 4007

Number of cycles run: 3492

Number of cycles run: 24061

Number of cycles run: 4570

Number of cycles run: 17577

Number of cycles run: 16008

Number of cycles run: 3698

Number of cycles run: 1662

Number of cycles run: 2570

Number of cycles run: 2694

Number of cycles run: 7748

Number of cycles run: 3193

Number of cycles run: 2748

Number of cycles run: 2087

Number of cycles run: 4859

Number of cycles run: 11210

Number of cycles run: 1121

Number of cycles run: 712

Number of cycles run: 3871

Number of cycles run: 50000

Number of cycles run: 40016

Number of cycles run: 14957

Number of cycles run: 2960

Number of cycles run: 21737

Number of cycles run: 2058

Number of cycles run: 2827

Number of cycles run: 3266

Number of cycles run: 1434

Number of cycles run: 1366

Number of cycles run: 3827

Number of cycles run: 2897

Number of cycles run: 2387

Number of cycles run: 2190

Number of cycles run: 1438

Number of cycles run: 2267

Number of cycles run: 50000

Number of cycles run: 4112

Number of cycles run: 2652

Number of cycles run: 17377

Number of cycles run: 30320

Number of cycles run: 3671

Number of cycles run: 5217

Number of cycles run: 1364

Number of cycles run: 18294

Number of cycles run: 2934

Number of cycles run: 2616

Number of cycles run: 3549

Number of cycles run: 26191

Number of cycles run: 748

Av cycles for attraction strength 0.6 is 9381

standard diviation is 13012.4963719

Testing average cycles for attraction strength 0.6

Number of cycles run: 18034

Number of cycles run: 1551

Number of cycles run: 2014

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2323

Number of cycles run: 28752

Number of cycles run: 2178

Number of cycles run: 17361

Number of cycles run: 3774

Number of cycles run: 2471

Number of cycles run: 8110

Number of cycles run: 3613

Number of cycles run: 16209

Number of cycles run: 449

Number of cycles run: 20097

Number of cycles run: 4086

Number of cycles run: 1743

Number of cycles run: 50000

Number of cycles run: 2602

Number of cycles run: 2123

Number of cycles run: 9024

Number of cycles run: 3080

Number of cycles run: 50000

Number of cycles run: 2704

Number of cycles run: 4181

Number of cycles run: 1770

Number of cycles run: 2311

Number of cycles run: 4158

Number of cycles run: 3380

Number of cycles run: 1587

Number of cycles run: 1896

Number of cycles run: 27372

Number of cycles run: 8605

Number of cycles run: 2545

Number of cycles run: 46693

Number of cycles run: 50000

Number of cycles run: 1657

Number of cycles run: 785

Number of cycles run: 3448

Number of cycles run: 50000

Number of cycles run: 2237

Number of cycles run: 2519

Number of cycles run: 1204

Number of cycles run: 2785

Number of cycles run: 459

Number of cycles run: 27348

Number of cycles run: 4394

Number of cycles run: 17230

Number of cycles run: 6693

Number of cycles run: 2283

Number of cycles run: 446

Number of cycles run: 44646

Number of cycles run: 1889

Number of cycles run: 4200

Number of cycles run: 9278

Number of cycles run: 458

Number of cycles run: 2311

Number of cycles run: 50000

Number of cycles run: 2164

Number of cycles run: 3923

Number of cycles run: 5965

Number of cycles run: 2061

Number of cycles run: 2628

Number of cycles run: 715

Number of cycles run: 2747

Number of cycles run: 10060

Number of cycles run: 3113

Number of cycles run: 44711

Number of cycles run: 2819

Number of cycles run: 3063

Number of cycles run: 3855

Number of cycles run: 50000

Number of cycles run: 19895

Number of cycles run: 2599

Number of cycles run: 1273

Number of cycles run: 2491

Number of cycles run: 8540

Number of cycles run: 24670

Number of cycles run: 6600

Number of cycles run: 50000

Number of cycles run: 6254

Number of cycles run: 1341

Number of cycles run: 50000

Number of cycles run: 408

Number of cycles run: 362

Number of cycles run: 3058

Number of cycles run: 50000

Number of cycles run: 3313

Number of cycles run: 5200

Number of cycles run: 3222

Number of cycles run: 7110

Number of cycles run: 3363

Number of cycles run: 50000

Number of cycles run: 472

Number of cycles run: 2582

Number of cycles run: 8592

Number of cycles run: 4146

Number of cycles run: 23023

Number of cycles run: 14030

Av cycles for attraction strength 0.6 is 12334

standard diviation is 16762.4150693

Testing average cycles for attraction strength 0.6

Number of cycles run: 2796

Number of cycles run: 5173

Number of cycles run: 22082

Number of cycles run: 1656

Number of cycles run: 626

Number of cycles run: 3969

Number of cycles run: 7757

Number of cycles run: 7054

Number of cycles run: 1896

Number of cycles run: 2365

Number of cycles run: 2501

Number of cycles run: 2816

Number of cycles run: 1795

Number of cycles run: 10132

Number of cycles run: 2243

Number of cycles run: 3448

Number of cycles run: 1487

Number of cycles run: 2614

Number of cycles run: 4578

Number of cycles run: 3116

Number of cycles run: 3814

Number of cycles run: 2635

Number of cycles run: 5890

Number of cycles run: 2804

Number of cycles run: 447

Number of cycles run: 3307

Number of cycles run: 5482

Number of cycles run: 6128

Number of cycles run: 4413

Number of cycles run: 50000

Number of cycles run: 1145

Number of cycles run: 2980

Number of cycles run: 4482

Number of cycles run: 1890

Number of cycles run: 6182

Number of cycles run: 931

Number of cycles run: 3723

Number of cycles run: 4224

Number of cycles run: 3673

Number of cycles run: 2248

Number of cycles run: 1777

Number of cycles run: 4504

Number of cycles run: 2943

Number of cycles run: 50000

Number of cycles run: 7483

Number of cycles run: 2156

Number of cycles run: 26352

Number of cycles run: 776

Number of cycles run: 1691

Number of cycles run: 1597

Number of cycles run: 2455

Number of cycles run: 2988

Number of cycles run: 32434

Number of cycles run: 1920

Number of cycles run: 1265

Number of cycles run: 9493

Number of cycles run: 21783

Number of cycles run: 1803

Number of cycles run: 2577

Number of cycles run: 3757

Number of cycles run: 50000

Number of cycles run: 1184

Number of cycles run: 6538

Number of cycles run: 22540

Number of cycles run: 2054

Number of cycles run: 1413

Number of cycles run: 2722

Number of cycles run: 3946

Number of cycles run: 9363

Number of cycles run: 3475

Number of cycles run: 2057

Number of cycles run: 2280

Number of cycles run: 3055

Number of cycles run: 4189

Number of cycles run: 2002

Number of cycles run: 4897

Number of cycles run: 1975

Number of cycles run: 1631

Number of cycles run: 3396

Number of cycles run: 3157

Number of cycles run: 1954

Number of cycles run: 4141

Number of cycles run: 4337

Number of cycles run: 2583

Number of cycles run: 3927

Number of cycles run: 2935

Number of cycles run: 3567

Number of cycles run: 2736

Number of cycles run: 4025

Number of cycles run: 1858

Number of cycles run: 2994

Number of cycles run: 12774

Number of cycles run: 4235

Number of cycles run: 4412

Number of cycles run: 2789

Number of cycles run: 30248

Number of cycles run: 15367

Number of cycles run: 48257

Number of cycles run: 5921

Number of cycles run: 3601

Av cycles for attraction strength 0.6 is 6807

standard diviation is 10574.6973929

Testing average cycles for attraction strength 0.6

Number of cycles run: 2199

Number of cycles run: 1259

Number of cycles run: 1947

Number of cycles run: 3228

Number of cycles run: 50000

Number of cycles run: 5520

Number of cycles run: 3620

Number of cycles run: 1554

Number of cycles run: 1155

Number of cycles run: 2333

Number of cycles run: 50000

Number of cycles run: 2008

Number of cycles run: 2606

Number of cycles run: 739

Number of cycles run: 5124

Number of cycles run: 3944

Number of cycles run: 3461

Number of cycles run: 4195

Number of cycles run: 3216

Number of cycles run: 19099

Number of cycles run: 50000

Number of cycles run: 2556

Number of cycles run: 4217

Number of cycles run: 457

Number of cycles run: 2253

Number of cycles run: 2642

Number of cycles run: 3762

Number of cycles run: 3682

Number of cycles run: 5931

Number of cycles run: 3642

Number of cycles run: 23415

Number of cycles run: 4666

Number of cycles run: 5009

Number of cycles run: 2572

Number of cycles run: 3418

Number of cycles run: 21634

Number of cycles run: 2826

Number of cycles run: 454

Number of cycles run: 459

Number of cycles run: 3412

Number of cycles run: 9004

Number of cycles run: 20723

Number of cycles run: 2516

Number of cycles run: 1851

Number of cycles run: 1668

Number of cycles run: 2692

Number of cycles run: 1547

Number of cycles run: 5865

Number of cycles run: 17144

Number of cycles run: 20285

Number of cycles run: 1226

Number of cycles run: 1037

Number of cycles run: 50000

Number of cycles run: 1564

Number of cycles run: 50000

Number of cycles run: 1723

Number of cycles run: 2208

Number of cycles run: 4968

Number of cycles run: 5007

Number of cycles run: 50000

Number of cycles run: 3713

Number of cycles run: 1700

Number of cycles run: 4883

Number of cycles run: 2528

Number of cycles run: 20038

Number of cycles run: 4315

Number of cycles run: 24910

Number of cycles run: 5438

Number of cycles run: 828

Number of cycles run: 5947

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2846

Number of cycles run: 1054

Number of cycles run: 1295

Number of cycles run: 3267

Number of cycles run: 2441

Number of cycles run: 2039

Number of cycles run: 734

Number of cycles run: 1778

Number of cycles run: 5207

Number of cycles run: 4278

Number of cycles run: 5050

Number of cycles run: 7415

Number of cycles run: 7038

Number of cycles run: 2780

Number of cycles run: 46710

Number of cycles run: 2926

Number of cycles run: 50000

Number of cycles run: 2367

Number of cycles run: 50000

Number of cycles run: 2237

Number of cycles run: 9903

Number of cycles run: 5265

Number of cycles run: 1971

Number of cycles run: 5629

Number of cycles run: 7319

Number of cycles run: 2641

Number of cycles run: 2436

Number of cycles run: 2316

Av cycles for attraction strength 0.6 is 9784

standard diviation is 15012.5241034

Testing average cycles for attraction strength 0.6

Number of cycles run: 50000

Number of cycles run: 7908

Number of cycles run: 5499

Number of cycles run: 7264

Number of cycles run: 6334

Number of cycles run: 6285

Number of cycles run: 2907

Number of cycles run: 13208

Number of cycles run: 2196

Number of cycles run: 3183

Number of cycles run: 2955

Number of cycles run: 2443

Number of cycles run: 1907

Number of cycles run: 13644

Number of cycles run: 2965

Number of cycles run: 20302

Number of cycles run: 23612

Number of cycles run: 2919

Number of cycles run: 2563

Number of cycles run: 3112

Number of cycles run: 50000

Number of cycles run: 11257

Number of cycles run: 6070

Number of cycles run: 14010

Number of cycles run: 2096

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 24693

Number of cycles run: 2698

Number of cycles run: 2948

Number of cycles run: 3584

Number of cycles run: 1155

Number of cycles run: 441

Number of cycles run: 409

Number of cycles run: 2212

Number of cycles run: 1438

Number of cycles run: 7599

Number of cycles run: 23740

Number of cycles run: 1570

Number of cycles run: 6429

Number of cycles run: 9897

Number of cycles run: 4553

Number of cycles run: 2233

Number of cycles run: 4826

Number of cycles run: 50000

Number of cycles run: 1267

Number of cycles run: 2182

Number of cycles run: 2120

Number of cycles run: 409

Number of cycles run: 2957

Number of cycles run: 13799

Number of cycles run: 3098

Number of cycles run: 3314

Number of cycles run: 27397

Number of cycles run: 1737

Number of cycles run: 1510

Number of cycles run: 50000

Number of cycles run: 3628

Number of cycles run: 50000

Number of cycles run: 3095

Number of cycles run: 1842

Number of cycles run: 3117

Number of cycles run: 3909

Number of cycles run: 926

Number of cycles run: 11834

Number of cycles run: 50000

Number of cycles run: 4234

Number of cycles run: 3036

Number of cycles run: 6579

Number of cycles run: 4399

Number of cycles run: 15910

Number of cycles run: 3822

Number of cycles run: 1375

Number of cycles run: 2554

Number of cycles run: 1853

Number of cycles run: 1320

Number of cycles run: 1691

Number of cycles run: 7395

Number of cycles run: 50000

Number of cycles run: 2695

Number of cycles run: 3810

Number of cycles run: 5206

Number of cycles run: 10236

Number of cycles run: 50000

Number of cycles run: 3119

Number of cycles run: 4157

Number of cycles run: 4667

Number of cycles run: 2983

Number of cycles run: 2748

Number of cycles run: 1793

Number of cycles run: 3771

Number of cycles run: 1628

Number of cycles run: 453

Number of cycles run: 458

Number of cycles run: 1849

Number of cycles run: 1860

Number of cycles run: 395

Number of cycles run: 3503

Number of cycles run: 9853

Number of cycles run: 5418

Av cycles for attraction strength 0.6 is 9779

standard diviation is 14523.559103