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\_S10.py =====

Testing average cycles for attraction strength 0.6

Number of cycles run: 1090

Number of cycles run: 616

Number of cycles run: 3824

Number of cycles run: 677

Number of cycles run: 7282

Number of cycles run: 10172

Number of cycles run: 2079

Number of cycles run: 659

Number of cycles run: 483

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2470

Number of cycles run: 1721

Number of cycles run: 10580

Number of cycles run: 889

Number of cycles run: 1520

Number of cycles run: 3965

Number of cycles run: 49734

Number of cycles run: 3984

Number of cycles run: 3492

Number of cycles run: 5880

Number of cycles run: 442

Number of cycles run: 3856

Number of cycles run: 4313

Number of cycles run: 2196

Number of cycles run: 15592

Number of cycles run: 9297

Number of cycles run: 4637

Number of cycles run: 2452

Number of cycles run: 8735

Number of cycles run: 4189

Number of cycles run: 2202

Number of cycles run: 1825

Number of cycles run: 5347

Number of cycles run: 7581

Number of cycles run: 935

Number of cycles run: 39494

Number of cycles run: 4319

Number of cycles run: 6613

Number of cycles run: 1460

Number of cycles run: 984

Number of cycles run: 3579

Number of cycles run: 5935

Number of cycles run: 5195

Number of cycles run: 2644

Number of cycles run: 3249

Number of cycles run: 9328

Number of cycles run: 700

Number of cycles run: 5421

Number of cycles run: 7507

Number of cycles run: 2163

Number of cycles run: 50000

Number of cycles run: 2732

Number of cycles run: 614

Number of cycles run: 2037

Number of cycles run: 1746

Number of cycles run: 5762

Number of cycles run: 616

Number of cycles run: 1184

Number of cycles run: 6669

Number of cycles run: 26200

Number of cycles run: 883

Number of cycles run: 8348

Number of cycles run: 851

Number of cycles run: 4369

Number of cycles run: 1084

Number of cycles run: 653

Number of cycles run: 17396

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2856

Number of cycles run: 10813

Number of cycles run: 8389

Number of cycles run: 9389

Number of cycles run: 5691

Number of cycles run: 603

Number of cycles run: 563

Number of cycles run: 8427

Number of cycles run: 32427

Number of cycles run: 3805

Number of cycles run: 1687

Number of cycles run: 3521

Number of cycles run: 7169

Number of cycles run: 3107

Number of cycles run: 2113

Number of cycles run: 3831

Number of cycles run: 802

Number of cycles run: 1349

Number of cycles run: 6198

Number of cycles run: 2637

Number of cycles run: 5229

Number of cycles run: 2064

Number of cycles run: 11526

Number of cycles run: 3573

Number of cycles run: 5611

Number of cycles run: 607

Number of cycles run: 6253

Number of cycles run: 3126

Number of cycles run: 3274

Number of cycles run: 6275

Av cycles for attraction strength 0.6 is 7773

standard diviation is 12256.4226125

Testing average cycles for attraction strength 0.6

Number of cycles run: 1942

Number of cycles run: 4603

Number of cycles run: 3432

Number of cycles run: 2325

Number of cycles run: 2468

Number of cycles run: 1896

Number of cycles run: 4018

Number of cycles run: 6072

Number of cycles run: 5996

Number of cycles run: 4164

Number of cycles run: 2683

Number of cycles run: 569

Number of cycles run: 14574

Number of cycles run: 50000

Number of cycles run: 2902

Number of cycles run: 4468

Number of cycles run: 1329

Number of cycles run: 20604

Number of cycles run: 3617

Number of cycles run: 5002

Number of cycles run: 50000

Number of cycles run: 3256

Number of cycles run: 1942

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3196

Number of cycles run: 1021

Number of cycles run: 3536

Number of cycles run: 10941

Number of cycles run: 540

Number of cycles run: 2403

Number of cycles run: 5660

Number of cycles run: 3550

Number of cycles run: 33434

Number of cycles run: 7870

Number of cycles run: 2643

Number of cycles run: 50000

Number of cycles run: 3570

Number of cycles run: 531

Number of cycles run: 4984

Number of cycles run: 2333

Number of cycles run: 6087

Number of cycles run: 2853

Number of cycles run: 3823

Number of cycles run: 834

Number of cycles run: 2130

Number of cycles run: 3603

Number of cycles run: 2419

Number of cycles run: 1597

Number of cycles run: 8929

Number of cycles run: 4368

Number of cycles run: 3273

Number of cycles run: 50000

Number of cycles run: 1836

Number of cycles run: 5898

Number of cycles run: 6386

Number of cycles run: 1316

Number of cycles run: 4935

Number of cycles run: 1899

Number of cycles run: 4946

Number of cycles run: 850

Number of cycles run: 833

Number of cycles run: 3908

Number of cycles run: 4990

Number of cycles run: 50000

Number of cycles run: 3152

Number of cycles run: 646

Number of cycles run: 1712

Number of cycles run: 28639

Number of cycles run: 2576

Number of cycles run: 11014

Number of cycles run: 6031

Number of cycles run: 19752

Number of cycles run: 2317

Number of cycles run: 1351

Number of cycles run: 1762

Number of cycles run: 6001

Number of cycles run: 3027

Number of cycles run: 2840

Number of cycles run: 1051

Number of cycles run: 790

Number of cycles run: 4332

Number of cycles run: 502

Number of cycles run: 3445

Number of cycles run: 4319

Number of cycles run: 3672

Number of cycles run: 14040

Number of cycles run: 8263

Number of cycles run: 21832

Number of cycles run: 50000

Number of cycles run: 25614

Number of cycles run: 23866

Number of cycles run: 24626

Number of cycles run: 2075

Number of cycles run: 50000

Number of cycles run: 653

Number of cycles run: 2334

Number of cycles run: 4402

Number of cycles run: 1275

Number of cycles run: 1779

Av cycles for attraction strength 0.6 is 9514

standard diviation is 14302.5365673

Testing average cycles for attraction strength 0.6

Number of cycles run: 37445

Number of cycles run: 694

Number of cycles run: 4007

Number of cycles run: 1466

Number of cycles run: 4262

Number of cycles run: 2028

Number of cycles run: 5670

Number of cycles run: 2860

Number of cycles run: 7522

Number of cycles run: 4560

Number of cycles run: 624

Number of cycles run: 5458

Number of cycles run: 556

Number of cycles run: 2037

Number of cycles run: 657

Number of cycles run: 3768

Number of cycles run: 477

Number of cycles run: 3488

Number of cycles run: 2506

Number of cycles run: 1219

Number of cycles run: 11389

Number of cycles run: 2545

Number of cycles run: 2995

Number of cycles run: 755

Number of cycles run: 2836

Number of cycles run: 2907

Number of cycles run: 2938

Number of cycles run: 6438

Number of cycles run: 3530

Number of cycles run: 556

Number of cycles run: 14894

Number of cycles run: 3437

Number of cycles run: 2687

Number of cycles run: 1776

Number of cycles run: 2065

Number of cycles run: 6259

Number of cycles run: 3645

Number of cycles run: 3422

Number of cycles run: 24309

Number of cycles run: 2076

Number of cycles run: 50000

Number of cycles run: 1271

Number of cycles run: 1533

Number of cycles run: 3190

Number of cycles run: 13073

Number of cycles run: 2394

Number of cycles run: 626

Number of cycles run: 624

Number of cycles run: 20603

Number of cycles run: 2281

Number of cycles run: 14143

Number of cycles run: 2479

Number of cycles run: 4493

Number of cycles run: 50000

Number of cycles run: 1475

Number of cycles run: 554

Number of cycles run: 4655

Number of cycles run: 26180

Number of cycles run: 2959

Number of cycles run: 8758

Number of cycles run: 4754

Number of cycles run: 921

Number of cycles run: 3393

Number of cycles run: 4850

Number of cycles run: 2930

Number of cycles run: 1872

Number of cycles run: 2290

Number of cycles run: 7545

Number of cycles run: 50000

Number of cycles run: 13165

Number of cycles run: 1683

Number of cycles run: 4391

Number of cycles run: 1943

Number of cycles run: 4447

Number of cycles run: 1155

Number of cycles run: 639

Number of cycles run: 1162

Number of cycles run: 2648

Number of cycles run: 5626

Number of cycles run: 5338

Number of cycles run: 1334

Number of cycles run: 3066

Number of cycles run: 1029

Number of cycles run: 50000

Number of cycles run: 484

Number of cycles run: 26945

Number of cycles run: 480

Number of cycles run: 2050

Number of cycles run: 7838

Number of cycles run: 2399

Number of cycles run: 571

Number of cycles run: 453

Number of cycles run: 50000

Number of cycles run: 5159

Number of cycles run: 11512

Number of cycles run: 1314

Number of cycles run: 2256

Number of cycles run: 459

Number of cycles run: 17466

Number of cycles run: 50000

Av cycles for attraction strength 0.6 is 7596

standard diviation is 12447.5506854

Testing average cycles for attraction strength 0.6

Number of cycles run: 7020

Number of cycles run: 7461

Number of cycles run: 2463

Number of cycles run: 3869

Number of cycles run: 16666

Number of cycles run: 3152

Number of cycles run: 615

Number of cycles run: 1787

Number of cycles run: 1970

Number of cycles run: 2302

Number of cycles run: 4315

Number of cycles run: 2837

Number of cycles run: 1268

Number of cycles run: 6399

Number of cycles run: 2920

Number of cycles run: 830

Number of cycles run: 3023

Number of cycles run: 11760

Number of cycles run: 50000

Number of cycles run: 823

Number of cycles run: 2438

Number of cycles run: 2166

Number of cycles run: 50000

Number of cycles run: 2105

Number of cycles run: 2574

Number of cycles run: 508

Number of cycles run: 50000

Number of cycles run: 5376

Number of cycles run: 4943

Number of cycles run: 18042

Number of cycles run: 458

Number of cycles run: 838

Number of cycles run: 7596

Number of cycles run: 11082

Number of cycles run: 2338

Number of cycles run: 3015

Number of cycles run: 3072

Number of cycles run: 2243

Number of cycles run: 611

Number of cycles run: 3574

Number of cycles run: 967

Number of cycles run: 4910

Number of cycles run: 1388

Number of cycles run: 1962

Number of cycles run: 6081

Number of cycles run: 5126

Number of cycles run: 3336

Number of cycles run: 2495

Number of cycles run: 24584

Number of cycles run: 3062

Number of cycles run: 2746

Number of cycles run: 17480

Number of cycles run: 5800

Number of cycles run: 4829

Number of cycles run: 1615

Number of cycles run: 7819

Number of cycles run: 995

Number of cycles run: 5912

Number of cycles run: 4239

Number of cycles run: 1291

Number of cycles run: 5376

Number of cycles run: 980

Number of cycles run: 1716

Number of cycles run: 468

Number of cycles run: 10959

Number of cycles run: 1714

Number of cycles run: 414

Number of cycles run: 1276

Number of cycles run: 6159

Number of cycles run: 5314

Number of cycles run: 4377

Number of cycles run: 3640

Number of cycles run: 2683

Number of cycles run: 2179

Number of cycles run: 1787

Number of cycles run: 601

Number of cycles run: 5605

Number of cycles run: 3610

Number of cycles run: 2557

Number of cycles run: 1148

Number of cycles run: 1934

Number of cycles run: 4278

Number of cycles run: 3485

Number of cycles run: 3279

Number of cycles run: 3906

Number of cycles run: 636

Number of cycles run: 3834

Number of cycles run: 5278

Number of cycles run: 3605

Number of cycles run: 1026

Number of cycles run: 50000

Number of cycles run: 2518

Number of cycles run: 2256

Number of cycles run: 1269

Number of cycles run: 2660

Number of cycles run: 4138

Number of cycles run: 6893

Number of cycles run: 3238

Number of cycles run: 5087

Number of cycles run: 1449

Av cycles for attraction strength 0.6 is 5844

standard diviation is 9868.33711298

Testing average cycles for attraction strength 0.6

Number of cycles run: 14076

Number of cycles run: 3844

Number of cycles run: 3601

Number of cycles run: 1230

Number of cycles run: 3019

Number of cycles run: 555

Number of cycles run: 1703

Number of cycles run: 2572

Number of cycles run: 2540

Number of cycles run: 2261

Number of cycles run: 3678

Number of cycles run: 5428

Number of cycles run: 5243

Number of cycles run: 4060

Number of cycles run: 2461

Number of cycles run: 3444

Number of cycles run: 1317

Number of cycles run: 12513

Number of cycles run: 50000

Number of cycles run: 2346

Number of cycles run: 6250

Number of cycles run: 3004

Number of cycles run: 50000

Number of cycles run: 481

Number of cycles run: 2622

Number of cycles run: 733

Number of cycles run: 750

Number of cycles run: 627

Number of cycles run: 1416

Number of cycles run: 3147

Number of cycles run: 958

Number of cycles run: 5843

Number of cycles run: 4211

Number of cycles run: 6079

Number of cycles run: 3567

Number of cycles run: 3027

Number of cycles run: 469

Number of cycles run: 14808

Number of cycles run: 4881

Number of cycles run: 2208

Number of cycles run: 13058

Number of cycles run: 504

Number of cycles run: 4423

Number of cycles run: 3977

Number of cycles run: 5373

Number of cycles run: 6000

Number of cycles run: 760

Number of cycles run: 626

Number of cycles run: 50000

Number of cycles run: 2388

Number of cycles run: 592

Number of cycles run: 2658

Number of cycles run: 4122

Number of cycles run: 552

Number of cycles run: 1427

Number of cycles run: 4542

Number of cycles run: 6567

Number of cycles run: 2508

Number of cycles run: 798

Number of cycles run: 2495

Number of cycles run: 500

Number of cycles run: 5867

Number of cycles run: 562

Number of cycles run: 10636

Number of cycles run: 1457

Number of cycles run: 2340

Number of cycles run: 50000

Number of cycles run: 547

Number of cycles run: 3086

Number of cycles run: 3234

Number of cycles run: 6921

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6938

Number of cycles run: 1046

Number of cycles run: 640

Number of cycles run: 4348

Number of cycles run: 1114

Number of cycles run: 4028

Number of cycles run: 3875

Number of cycles run: 453

Number of cycles run: 4168

Number of cycles run: 1629

Number of cycles run: 8110

Number of cycles run: 1715

Number of cycles run: 4567

Number of cycles run: 4160

Number of cycles run: 581

Number of cycles run: 568

Number of cycles run: 8587

Number of cycles run: 2101

Number of cycles run: 1923

Number of cycles run: 1875

Number of cycles run: 3084

Number of cycles run: 50000

Number of cycles run: 3818

Number of cycles run: 965

Number of cycles run: 481

Number of cycles run: 2759

Number of cycles run: 50000

Av cycles for attraction strength 0.6 is 7130

standard diviation is 13035.7764171

Testing average cycles for attraction strength 0.6

Number of cycles run: 2204

Number of cycles run: 694

Number of cycles run: 50000

Number of cycles run: 12118

Number of cycles run: 2804

Number of cycles run: 648

Number of cycles run: 6798

Number of cycles run: 1432

Number of cycles run: 5579

Number of cycles run: 1940

Number of cycles run: 3328

Number of cycles run: 472

Number of cycles run: 465

Number of cycles run: 2062

Number of cycles run: 3098

Number of cycles run: 3698

Number of cycles run: 5147

Number of cycles run: 2885

Number of cycles run: 5947

Number of cycles run: 4041

Number of cycles run: 11795

Number of cycles run: 8978

Number of cycles run: 10215

Number of cycles run: 9974

Number of cycles run: 50000

Number of cycles run: 1355

Number of cycles run: 4867

Number of cycles run: 50000

Number of cycles run: 8301

Number of cycles run: 3830

Number of cycles run: 6278

Number of cycles run: 4688

Number of cycles run: 612

Number of cycles run: 50000

Number of cycles run: 4142

Number of cycles run: 824

Number of cycles run: 6303

Number of cycles run: 4226

Number of cycles run: 6100

Number of cycles run: 1271

Number of cycles run: 1508

Number of cycles run: 6108

Number of cycles run: 17337

Number of cycles run: 2061

Number of cycles run: 3823

Number of cycles run: 5202

Number of cycles run: 5870

Number of cycles run: 2758

Number of cycles run: 1523

Number of cycles run: 7609

Number of cycles run: 5459

Number of cycles run: 4014

Number of cycles run: 3437

Number of cycles run: 2189

Number of cycles run: 3237

Number of cycles run: 1718

Number of cycles run: 2667

Number of cycles run: 2729

Number of cycles run: 781

Number of cycles run: 1481

Number of cycles run: 760

Number of cycles run: 1079

Number of cycles run: 6110

Number of cycles run: 28118

Number of cycles run: 2388

Number of cycles run: 11883

Number of cycles run: 2276

Number of cycles run: 4582

Number of cycles run: 50000

Number of cycles run: 449

Number of cycles run: 5166

Number of cycles run: 3700

Number of cycles run: 4673

Number of cycles run: 3877

Number of cycles run: 5522

Number of cycles run: 2938

Number of cycles run: 2000

Number of cycles run: 4133

Number of cycles run: 2933

Number of cycles run: 50000

Number of cycles run: 10417

Number of cycles run: 767

Number of cycles run: 1480

Number of cycles run: 2045

Number of cycles run: 1011

Number of cycles run: 7436

Number of cycles run: 2389

Number of cycles run: 1070

Number of cycles run: 12090

Number of cycles run: 572

Number of cycles run: 694

Number of cycles run: 13047

Number of cycles run: 4261

Number of cycles run: 1737

Number of cycles run: 860

Number of cycles run: 1330

Number of cycles run: 461

Number of cycles run: 31474

Number of cycles run: 1771

Number of cycles run: 1789

Av cycles for attraction strength 0.6 is 7299

standard diviation is 11890.6734969

Testing average cycles for attraction strength 0.6

Number of cycles run: 473

Number of cycles run: 2790

Number of cycles run: 1193

Number of cycles run: 50000

Number of cycles run: 3319

Number of cycles run: 1034

Number of cycles run: 2319

Number of cycles run: 26363

Number of cycles run: 3157

Number of cycles run: 1289

Number of cycles run: 457

Number of cycles run: 1146

Number of cycles run: 2295

Number of cycles run: 14456

Number of cycles run: 3563

Number of cycles run: 1086

Number of cycles run: 8580

Number of cycles run: 2642

Number of cycles run: 889

Number of cycles run: 815

Number of cycles run: 7040

Number of cycles run: 2617

Number of cycles run: 2614

Number of cycles run: 1301

Number of cycles run: 50000

Number of cycles run: 3119

Number of cycles run: 2269

Number of cycles run: 2549

Number of cycles run: 5930

Number of cycles run: 2581

Number of cycles run: 5415

Number of cycles run: 1882

Number of cycles run: 12917

Number of cycles run: 3656

Number of cycles run: 10927

Number of cycles run: 3717

Number of cycles run: 6727

Number of cycles run: 50000

Number of cycles run: 2058

Number of cycles run: 3655

Number of cycles run: 2558

Number of cycles run: 2501

Number of cycles run: 5073

Number of cycles run: 656

Number of cycles run: 1836

Number of cycles run: 50000

Number of cycles run: 34936

Number of cycles run: 1267

Number of cycles run: 3895

Number of cycles run: 2703

Number of cycles run: 11652

Number of cycles run: 50000

Number of cycles run: 3309

Number of cycles run: 595

Number of cycles run: 4109

Number of cycles run: 7068

Number of cycles run: 2886

Number of cycles run: 1714

Number of cycles run: 2141

Number of cycles run: 1240

Number of cycles run: 1126

Number of cycles run: 640

Number of cycles run: 11231

Number of cycles run: 10548

Number of cycles run: 9521

Number of cycles run: 1579

Number of cycles run: 2720

Number of cycles run: 13071

Number of cycles run: 1095

Number of cycles run: 509

Number of cycles run: 5084

Number of cycles run: 3253

Number of cycles run: 4751

Number of cycles run: 2763

Number of cycles run: 606

Number of cycles run: 1581

Number of cycles run: 584

Number of cycles run: 2575

Number of cycles run: 969

Number of cycles run: 2648

Number of cycles run: 7119

Number of cycles run: 562

Number of cycles run: 7724

Number of cycles run: 2115

Number of cycles run: 4089

Number of cycles run: 699

Number of cycles run: 784

Number of cycles run: 2542

Number of cycles run: 2589

Number of cycles run: 1888

Number of cycles run: 2417

Number of cycles run: 478

Number of cycles run: 13947

Number of cycles run: 457

Number of cycles run: 2888

Number of cycles run: 1238

Number of cycles run: 850

Number of cycles run: 3485

Number of cycles run: 2337

Number of cycles run: 3223

Av cycles for attraction strength 0.6 is 6372

standard diviation is 11247.9426424

Testing average cycles for attraction strength 0.6