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

[GCC 7.2.0] on linux

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>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_S9.py =====

Testing average cycles for attraction strength 0.6

Number of cycles run: 4628

Number of cycles run: 5651

Number of cycles run: 3021

Number of cycles run: 2383

Number of cycles run: 1924

Number of cycles run: 3693

Number of cycles run: 10944

Number of cycles run: 4608

Number of cycles run: 2823

Number of cycles run: 6657

Number of cycles run: 723

Number of cycles run: 2667

Number of cycles run: 6240

Number of cycles run: 2258

Number of cycles run: 4588

Number of cycles run: 546

Number of cycles run: 5494

Number of cycles run: 1188

Number of cycles run: 5577

Number of cycles run: 3818

Number of cycles run: 4017

Number of cycles run: 5214

Number of cycles run: 2297

Number of cycles run: 4981

Number of cycles run: 25544

Number of cycles run: 4462

Number of cycles run: 2665

Number of cycles run: 6195

Number of cycles run: 3583

Number of cycles run: 3136

Number of cycles run: 50000

Number of cycles run: 9237

Number of cycles run: 50000

Number of cycles run: 3132

Number of cycles run: 1501

Number of cycles run: 815

Number of cycles run: 1431

Number of cycles run: 2442

Number of cycles run: 2153

Number of cycles run: 884

Number of cycles run: 983

Number of cycles run: 503

Number of cycles run: 50000

Number of cycles run: 599

Number of cycles run: 1159

Number of cycles run: 828

Number of cycles run: 1186

Number of cycles run: 8286

Number of cycles run: 3078

Number of cycles run: 3402

Number of cycles run: 3846

Number of cycles run: 2026

Number of cycles run: 6483

Number of cycles run: 4669

Number of cycles run: 8207

Number of cycles run: 7994

Number of cycles run: 3047

Number of cycles run: 3754

Number of cycles run: 3495

Number of cycles run: 50000

Number of cycles run: 537

Number of cycles run: 3548

Number of cycles run: 15407

Number of cycles run: 803

Number of cycles run: 2380

Number of cycles run: 8835

Number of cycles run: 4219

Number of cycles run: 730

Number of cycles run: 11269

Number of cycles run: 624

Number of cycles run: 588

Number of cycles run: 50000

Number of cycles run: 4205

Number of cycles run: 50000

Number of cycles run: 2550

Number of cycles run: 1511

Number of cycles run: 1206

Number of cycles run: 50000

Number of cycles run: 8075

Number of cycles run: 9662

Number of cycles run: 1081

Number of cycles run: 3852

Number of cycles run: 3117

Number of cycles run: 3247

Number of cycles run: 4138

Number of cycles run: 4688

Number of cycles run: 13408

Number of cycles run: 1516

Number of cycles run: 4075

Number of cycles run: 3687

Number of cycles run: 839

Number of cycles run: 6305

Number of cycles run: 3071

Number of cycles run: 1794

Number of cycles run: 4110

Number of cycles run: 3343

Number of cycles run: 643

Number of cycles run: 4121

Number of cycles run: 6655

Number of cycles run: 901

Av cycles for attraction strength 0.6 is 7274

standard diviation is 12311.6550901

Testing average cycles for attraction strength 0.6

Number of cycles run: 2454

Number of cycles run: 4032

Number of cycles run: 2059

Number of cycles run: 505

Number of cycles run: 3371

Number of cycles run: 5807

Number of cycles run: 3637

Number of cycles run: 1886

Number of cycles run: 3649

Number of cycles run: 2097

Number of cycles run: 50000

Number of cycles run: 2237

Number of cycles run: 2662

Number of cycles run: 804

Number of cycles run: 2218

Number of cycles run: 1608

Number of cycles run: 22552

Number of cycles run: 2544

Number of cycles run: 1075

Number of cycles run: 815

Number of cycles run: 754

Number of cycles run: 2915

Number of cycles run: 4170

Number of cycles run: 50000

Number of cycles run: 2335

Number of cycles run: 8995

Number of cycles run: 8881

Number of cycles run: 2328

Number of cycles run: 3760

Number of cycles run: 488

Number of cycles run: 21327

Number of cycles run: 3558

Number of cycles run: 5860

Number of cycles run: 5140

Number of cycles run: 6087

Number of cycles run: 8182

Number of cycles run: 5684

Number of cycles run: 2959

Number of cycles run: 13516

Number of cycles run: 4497

Number of cycles run: 669

Number of cycles run: 4067

Number of cycles run: 4794

Number of cycles run: 4935

Number of cycles run: 3433

Number of cycles run: 520

Number of cycles run: 469

Number of cycles run: 2885

Number of cycles run: 3353

Number of cycles run: 890

Number of cycles run: 3335

Number of cycles run: 50000

Number of cycles run: 3028

Number of cycles run: 5945

Number of cycles run: 561

Number of cycles run: 7889

Number of cycles run: 4159

Number of cycles run: 439

Number of cycles run: 50000

Number of cycles run: 3111

Number of cycles run: 556

Number of cycles run: 50000

Number of cycles run: 1224

Number of cycles run: 1838

Number of cycles run: 50000

Number of cycles run: 1872

Number of cycles run: 3974

Number of cycles run: 3752

Number of cycles run: 3248

Number of cycles run: 502

Number of cycles run: 2075

Number of cycles run: 4297

Number of cycles run: 4212

Number of cycles run: 32789

Number of cycles run: 2022

Number of cycles run: 611

Number of cycles run: 1077

Number of cycles run: 17465

Number of cycles run: 496

Number of cycles run: 3512

Number of cycles run: 2329

Number of cycles run: 4164

Number of cycles run: 2175

Number of cycles run: 802

Number of cycles run: 3562

Number of cycles run: 5905

Number of cycles run: 7879

Number of cycles run: 6424

Number of cycles run: 2835

Number of cycles run: 881

Number of cycles run: 1980

Number of cycles run: 827

Number of cycles run: 16435

Number of cycles run: 1615

Number of cycles run: 11343

Number of cycles run: 2120

Number of cycles run: 21648

Number of cycles run: 1306

Number of cycles run: 3987

Number of cycles run: 1524

Av cycles for attraction strength 0.6 is 7171

standard diviation is 12062.5300479

Testing average cycles for attraction strength 0.6

Number of cycles run: 2791

Number of cycles run: 623

Number of cycles run: 5505

Number of cycles run: 4287

Number of cycles run: 456

Number of cycles run: 3290

Number of cycles run: 1941

Number of cycles run: 578

Number of cycles run: 1188

Number of cycles run: 1627

Number of cycles run: 3811

Number of cycles run: 1633

Number of cycles run: 50000

Number of cycles run: 617

Number of cycles run: 41022

Number of cycles run: 6242

Number of cycles run: 4231

Number of cycles run: 3256

Number of cycles run: 2557

Number of cycles run: 8002

Number of cycles run: 50000

Number of cycles run: 9184

Number of cycles run: 1578

Number of cycles run: 2307

Number of cycles run: 50000

Number of cycles run: 4141

Number of cycles run: 50000

Number of cycles run: 5525

Number of cycles run: 4384

Number of cycles run: 457

Number of cycles run: 422

Number of cycles run: 50000

Number of cycles run: 531

Number of cycles run: 3200

Number of cycles run: 3847

Number of cycles run: 2031

Number of cycles run: 3732

Number of cycles run: 26107

Number of cycles run: 5978

Number of cycles run: 1720

Number of cycles run: 5970

Number of cycles run: 1215

Number of cycles run: 1626

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2465

Number of cycles run: 465

Number of cycles run: 33450

Number of cycles run: 2222

Number of cycles run: 1780

Number of cycles run: 1954

Number of cycles run: 2374

Number of cycles run: 1631

Number of cycles run: 2736

Number of cycles run: 2645

Number of cycles run: 3501

Number of cycles run: 620

Number of cycles run: 1192

Number of cycles run: 4155

Number of cycles run: 4294

Number of cycles run: 2287

Number of cycles run: 8484

Number of cycles run: 1008

Number of cycles run: 3601

Number of cycles run: 2064

Number of cycles run: 1307

Number of cycles run: 3326

Number of cycles run: 3627

Number of cycles run: 2195

Number of cycles run: 3718

Number of cycles run: 1859

Number of cycles run: 2514

Number of cycles run: 710

Number of cycles run: 9213

Number of cycles run: 1161

Number of cycles run: 1651

Number of cycles run: 668

Number of cycles run: 5433

Number of cycles run: 9028

Number of cycles run: 4525

Number of cycles run: 50000

Number of cycles run: 9427

Number of cycles run: 13582

Number of cycles run: 1488

Number of cycles run: 8122

Number of cycles run: 20649

Number of cycles run: 1634

Number of cycles run: 3538

Number of cycles run: 702

Number of cycles run: 948

Number of cycles run: 2831

Number of cycles run: 48286

Number of cycles run: 2579

Number of cycles run: 2992

Number of cycles run: 8023

Number of cycles run: 19463

Number of cycles run: 6120

Number of cycles run: 776

Number of cycles run: 6144

Number of cycles run: 1711

Av cycles for attraction strength 0.6 is 8704

standard diviation is 14404.7491969

Testing average cycles for attraction strength 0.6

Number of cycles run: 1130

Number of cycles run: 4805

Number of cycles run: 11099

Number of cycles run: 2917

Number of cycles run: 4218

Number of cycles run: 1878

Number of cycles run: 525

Number of cycles run: 3952

Number of cycles run: 645

Number of cycles run: 2135

Number of cycles run: 3333

Number of cycles run: 3411

Number of cycles run: 19288

Number of cycles run: 3973

Number of cycles run: 5314

Number of cycles run: 1744

Number of cycles run: 1741

Number of cycles run: 1147

Number of cycles run: 2587

Number of cycles run: 3006

Number of cycles run: 4308

Number of cycles run: 12847

Number of cycles run: 10065

Number of cycles run: 716

Number of cycles run: 2494

Number of cycles run: 3602

Number of cycles run: 50000

Number of cycles run: 1608

Number of cycles run: 4712

Number of cycles run: 1981

Number of cycles run: 2121

Number of cycles run: 733

Number of cycles run: 21125

Number of cycles run: 4857

Number of cycles run: 2676

Number of cycles run: 1872

Number of cycles run: 3342

Number of cycles run: 625

Number of cycles run: 1131

Number of cycles run: 857

Number of cycles run: 9649

Number of cycles run: 775

Number of cycles run: 50000

Number of cycles run: 5756

Number of cycles run: 1678

Number of cycles run: 5066

Number of cycles run: 2541

Number of cycles run: 1886

Number of cycles run: 2568

Number of cycles run: 3214

Number of cycles run: 3901

Number of cycles run: 2367

Number of cycles run: 592

Number of cycles run: 7842

Number of cycles run: 459

Number of cycles run: 1736

Number of cycles run: 479

Number of cycles run: 4982

Number of cycles run: 2348

Number of cycles run: 4433

Number of cycles run: 549

Number of cycles run: 4111

Number of cycles run: 5226

Number of cycles run: 1458

Number of cycles run: 13790

Number of cycles run: 1574

Number of cycles run: 775

Number of cycles run: 1806

Number of cycles run: 1914

Number of cycles run: 3038

Number of cycles run: 7213

Number of cycles run: 685

Number of cycles run: 2470

Number of cycles run: 2591

Number of cycles run: 34680

Number of cycles run: 19464

Number of cycles run: 50000

Number of cycles run: 3201

Number of cycles run: 6233

Number of cycles run: 3130

Number of cycles run: 3276

Number of cycles run: 3307

Number of cycles run: 3124

Number of cycles run: 9981

Number of cycles run: 4608

Number of cycles run: 652

Number of cycles run: 2516

Number of cycles run: 4599

Number of cycles run: 1489

Number of cycles run: 923

Number of cycles run: 50000

Number of cycles run: 2695

Number of cycles run: 478

Number of cycles run: 11792

Number of cycles run: 4994

Number of cycles run: 5364

Number of cycles run: 2398

Number of cycles run: 2458

Number of cycles run: 9630

Number of cycles run: 439

Av cycles for attraction strength 0.6 is 6114

standard diviation is 10309.6605533

Testing average cycles for attraction strength 0.6

Number of cycles run: 1819

Number of cycles run: 50000

Number of cycles run: 2082

Number of cycles run: 2408

Number of cycles run: 6587

Number of cycles run: 5110

Number of cycles run: 2251

Number of cycles run: 1366

Number of cycles run: 7062

Number of cycles run: 2188

Number of cycles run: 2754

Number of cycles run: 50000

Number of cycles run: 4160

Number of cycles run: 2045

Number of cycles run: 11697

Number of cycles run: 6379

Number of cycles run: 1341

Number of cycles run: 5983

Number of cycles run: 7472

Number of cycles run: 2744

Number of cycles run: 9915

Number of cycles run: 2533

Number of cycles run: 974

Number of cycles run: 2911

Number of cycles run: 4732

Number of cycles run: 3627

Number of cycles run: 4112

Number of cycles run: 3978

Number of cycles run: 917

Number of cycles run: 451

Number of cycles run: 784

Number of cycles run: 972

Number of cycles run: 1168

Number of cycles run: 2852

Number of cycles run: 2773

Number of cycles run: 878

Number of cycles run: 2267

Number of cycles run: 3942

Number of cycles run: 7961

Number of cycles run: 4073

Number of cycles run: 737

Number of cycles run: 1862

Number of cycles run: 24635

Number of cycles run: 1750

Number of cycles run: 14074

Number of cycles run: 16284

Number of cycles run: 16556

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3061

Number of cycles run: 3186

Number of cycles run: 5758

Number of cycles run: 33670

Number of cycles run: 3723

Number of cycles run: 10326

Number of cycles run: 13849

Number of cycles run: 10510

Number of cycles run: 3982

Number of cycles run: 1634

Number of cycles run: 2008

Number of cycles run: 3257

Number of cycles run: 1398

Number of cycles run: 5262

Number of cycles run: 50000

Number of cycles run: 3314

Number of cycles run: 3953

Number of cycles run: 528

Number of cycles run: 2204

Number of cycles run: 2666

Number of cycles run: 4277

Number of cycles run: 2398

Number of cycles run: 4480

Number of cycles run: 2953

Number of cycles run: 2130

Number of cycles run: 658

Number of cycles run: 5868

Number of cycles run: 24136

Number of cycles run: 585

Number of cycles run: 3140

Number of cycles run: 8095

Number of cycles run: 3812

Number of cycles run: 2016

Number of cycles run: 7429

Number of cycles run: 545

Number of cycles run: 20230

Number of cycles run: 846

Number of cycles run: 3719

Number of cycles run: 8640

Number of cycles run: 639

Number of cycles run: 1612

Number of cycles run: 1224

Number of cycles run: 6759

Number of cycles run: 23578

Number of cycles run: 5072

Number of cycles run: 461

Number of cycles run: 7214

Number of cycles run: 16315

Number of cycles run: 1745

Number of cycles run: 2629

Number of cycles run: 5508

Av cycles for attraction strength 0.6 is 7561

standard diviation is 11420.992741

Testing average cycles for attraction strength 0.6

Number of cycles run: 17046

Number of cycles run: 4498

Number of cycles run: 565

Number of cycles run: 4054

Number of cycles run: 25862

Number of cycles run: 2352

Number of cycles run: 3301

Number of cycles run: 7139

Number of cycles run: 3976

Number of cycles run: 4831

Number of cycles run: 736

Number of cycles run: 8927

Number of cycles run: 1679

Number of cycles run: 1614

Number of cycles run: 13643

Number of cycles run: 5305

Number of cycles run: 4017

Number of cycles run: 50000

Number of cycles run: 1631

Number of cycles run: 1522

Number of cycles run: 2269

Number of cycles run: 2455

Number of cycles run: 3265

Number of cycles run: 4173

Number of cycles run: 4918

Number of cycles run: 50000

Number of cycles run: 8641

Number of cycles run: 5958

Number of cycles run: 1291

Number of cycles run: 1545

Number of cycles run: 12953

Number of cycles run: 1200

Number of cycles run: 4450

Number of cycles run: 3193

Number of cycles run: 50000

Number of cycles run: 1191

Number of cycles run: 2371

Number of cycles run: 2998

Number of cycles run: 1681

Number of cycles run: 667

Number of cycles run: 6681

Number of cycles run: 4080

Number of cycles run: 2123

Number of cycles run: 50000

Number of cycles run: 1940

Number of cycles run: 5505

Number of cycles run: 3250

Number of cycles run: 10288

Number of cycles run: 3812

Number of cycles run: 599

Number of cycles run: 653

Number of cycles run: 50000

Number of cycles run: 5387

Number of cycles run: 3736

Number of cycles run: 3184

Number of cycles run: 1003

Number of cycles run: 2553

Number of cycles run: 3944

Number of cycles run: 641

Number of cycles run: 5224

Number of cycles run: 7882

Number of cycles run: 4634

Number of cycles run: 833

Number of cycles run: 2252

Number of cycles run: 1205

Number of cycles run: 574

Number of cycles run: 440

Number of cycles run: 1215

Number of cycles run: 2262

Number of cycles run: 17208

Number of cycles run: 1311

Number of cycles run: 1371

Number of cycles run: 3474

Number of cycles run: 50000

Number of cycles run: 3595

Number of cycles run: 677

Number of cycles run: 5813

Number of cycles run: 599

Number of cycles run: 2792

Number of cycles run: 5384

Number of cycles run: 50000

Number of cycles run: 815

Number of cycles run: 2444

Number of cycles run: 3127

Number of cycles run: 5470

Number of cycles run: 528

Number of cycles run: 5158

Number of cycles run: 20641

Number of cycles run: 8592

Number of cycles run: 2818

Number of cycles run: 2063

Number of cycles run: 10023

Number of cycles run: 4946

Number of cycles run: 979

Number of cycles run: 3006

Number of cycles run: 17878

Number of cycles run: 792

Number of cycles run: 34859

Number of cycles run: 4067

Number of cycles run: 2146

Av cycles for attraction strength 0.6 is 7863

standard diviation is 12808.7219923

Testing average cycles for attraction strength 0.6

Number of cycles run: 6174

Number of cycles run: 2701

Number of cycles run: 50000

Number of cycles run: 7121

Number of cycles run: 5930

Number of cycles run: 3954

Number of cycles run: 3925

Number of cycles run: 2008

Number of cycles run: 2291

Number of cycles run: 4361

Number of cycles run: 10093

Number of cycles run: 4206

Number of cycles run: 1821

Number of cycles run: 4514

Number of cycles run: 2195

Number of cycles run: 19088

Number of cycles run: 9674

Number of cycles run: 1819

Number of cycles run: 1829

Number of cycles run: 50000

Number of cycles run: 5885

Number of cycles run: 50000

Number of cycles run: 3900

Number of cycles run: 4024

Number of cycles run: 10257

Number of cycles run: 4595

Number of cycles run: 8538

Number of cycles run: 11380

Number of cycles run: 3305

Number of cycles run: 929

Number of cycles run: 3463

Number of cycles run: 3077

Number of cycles run: 775

Number of cycles run: 5224

Number of cycles run: 2275

Number of cycles run: 2900

Number of cycles run: 2894

Number of cycles run: 1984

Number of cycles run: 50000

Number of cycles run: 2284

Number of cycles run: 5298

Number of cycles run: 531

Number of cycles run: 3143

Number of cycles run: 4035

Number of cycles run: 1834

Number of cycles run: 493

Number of cycles run: 10565

Number of cycles run: 454

Number of cycles run: 2793

Number of cycles run: 1987

Number of cycles run: 6500

Number of cycles run: 3598

Number of cycles run: 2097

Number of cycles run: 2488

Number of cycles run: 2742

Number of cycles run: 3326

Number of cycles run: 1219

Number of cycles run: 4367

Number of cycles run: 2654

Number of cycles run: 17892

Number of cycles run: 4471

Number of cycles run: 2803

Number of cycles run: 3178

Number of cycles run: 3727

Number of cycles run: 1696

Number of cycles run: 50000

Number of cycles run: 1804

Number of cycles run: 4530

Number of cycles run: 50000

Number of cycles run: 3487

Number of cycles run: 3720

Number of cycles run: 2857

Number of cycles run: 594

Number of cycles run: 2333

Number of cycles run: 3259

Number of cycles run: 3828

Number of cycles run: 15943

Number of cycles run: 7528

Number of cycles run: 1681

Number of cycles run: 6712

Number of cycles run: 3951

Number of cycles run: 2685

Number of cycles run: 4018

Number of cycles run: 4697

Number of cycles run: 2539

Number of cycles run: 6229

Number of cycles run: 6170

Number of cycles run: 3870

Number of cycles run: 5125

Number of cycles run: 1137

Number of cycles run: 1115

Number of cycles run: 1232

Number of cycles run: 3782

Number of cycles run: 1105

Number of cycles run: 4677

Number of cycles run: 50000

Number of cycles run: 991

Number of cycles run: 1863

Number of cycles run: 4632

Number of cycles run: 21644

Av cycles for attraction strength 0.6 is 7550

standard diviation is 12279.3029732