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\_S2.py =====

Testing average cycles for attraction strength 1.0

Number of cycles run: 6893

Number of cycles run: 1777

Number of cycles run: 911

Number of cycles run: 9464

Number of cycles run: 50000

Number of cycles run: 2678

Number of cycles run: 6131

Number of cycles run: 50000

Number of cycles run: 35000

Number of cycles run: 772

Number of cycles run: 3556

Number of cycles run: 3803

Number of cycles run: 593

Number of cycles run: 6575

Number of cycles run: 2166

Number of cycles run: 567

Number of cycles run: 442

Number of cycles run: 50000

Number of cycles run: 1316

Number of cycles run: 4550

Number of cycles run: 664

Number of cycles run: 4491

Number of cycles run: 622

Number of cycles run: 890

Number of cycles run: 2166

Number of cycles run: 424

Number of cycles run: 3524

Number of cycles run: 6226

Number of cycles run: 16157

Number of cycles run: 5370

Number of cycles run: 2340

Number of cycles run: 4524

Number of cycles run: 5703

Number of cycles run: 11235

Number of cycles run: 1837

Number of cycles run: 2986

Number of cycles run: 3618

Number of cycles run: 4564

Number of cycles run: 2054

Number of cycles run: 1916

Number of cycles run: 2509

Number of cycles run: 3305

Number of cycles run: 674

Number of cycles run: 5609

Number of cycles run: 2683

Number of cycles run: 687

Number of cycles run: 2850

Number of cycles run: 1000

Number of cycles run: 670

Number of cycles run: 454

Number of cycles run: 50000

Number of cycles run: 3484

Number of cycles run: 1052

Number of cycles run: 2553

Number of cycles run: 508

Number of cycles run: 2318

Number of cycles run: 3913

Number of cycles run: 4477

Number of cycles run: 1411

Number of cycles run: 2129

Number of cycles run: 575

Number of cycles run: 3496

Number of cycles run: 2454

Number of cycles run: 2148

Number of cycles run: 4166

Number of cycles run: 2781

Number of cycles run: 884

Number of cycles run: 890

Number of cycles run: 2438

Number of cycles run: 3680

Number of cycles run: 3466

Number of cycles run: 3297

Number of cycles run: 2047

Number of cycles run: 9096

Number of cycles run: 50000

Number of cycles run: 4702

Number of cycles run: 5213

Number of cycles run: 6596

Number of cycles run: 937

Number of cycles run: 50000

Number of cycles run: 4543

Number of cycles run: 24952

Number of cycles run: 3664

Number of cycles run: 1883

Number of cycles run: 3414

Number of cycles run: 11143

Number of cycles run: 3553

Number of cycles run: 1712

Number of cycles run: 1041

Number of cycles run: 1419

Number of cycles run: 2326

Number of cycles run: 1450

Number of cycles run: 465

Number of cycles run: 3111

Number of cycles run: 3791

Number of cycles run: 4192

Number of cycles run: 2043

Number of cycles run: 1767

Number of cycles run: 3133

Number of cycles run: 3246

Av cycles for attraction strength 1.0 is 6525

standard diviation is 11958.2641585

Testing average cycles for attraction strength 1.0

Number of cycles run: 466

Number of cycles run: 4327

Number of cycles run: 1219

Number of cycles run: 2308

Number of cycles run: 2725

Number of cycles run: 3252

Number of cycles run: 1667

Number of cycles run: 888

Number of cycles run: 2504

Number of cycles run: 3489

Number of cycles run: 1935

Number of cycles run: 6944

Number of cycles run: 2402

Number of cycles run: 7449

Number of cycles run: 45351

Number of cycles run: 50000

Number of cycles run: 4072

Number of cycles run: 21968

Number of cycles run: 3310

Number of cycles run: 4306

Number of cycles run: 3391

Number of cycles run: 2608

Number of cycles run: 50000

Number of cycles run: 7257

Number of cycles run: 433

Number of cycles run: 3220

Number of cycles run: 50000

Number of cycles run: 1377

Number of cycles run: 1293

Number of cycles run: 1138

Number of cycles run: 2023

Number of cycles run: 4172

Number of cycles run: 9601

Number of cycles run: 3912

Number of cycles run: 19924

Number of cycles run: 4413

Number of cycles run: 3508

Number of cycles run: 9193

Number of cycles run: 1317

Number of cycles run: 4071

Number of cycles run: 1841

Number of cycles run: 2627

Number of cycles run: 3055

Number of cycles run: 3705

Number of cycles run: 2499

Number of cycles run: 1192

Number of cycles run: 2661

Number of cycles run: 5042

Number of cycles run: 14597

Number of cycles run: 50000

Number of cycles run: 3808

Number of cycles run: 2124

Number of cycles run: 50000

Number of cycles run: 1260

Number of cycles run: 5312

Number of cycles run: 10658

Number of cycles run: 50000

Number of cycles run: 5503

Number of cycles run: 18367

Number of cycles run: 5213

Number of cycles run: 560

Number of cycles run: 986

Number of cycles run: 2411

Number of cycles run: 3621

Number of cycles run: 3555

Number of cycles run: 1272

Number of cycles run: 2463

Number of cycles run: 4788

Number of cycles run: 1834

Number of cycles run: 791

Number of cycles run: 484

Number of cycles run: 1453

Number of cycles run: 612

Number of cycles run: 2892

Number of cycles run: 10944

Number of cycles run: 1702

Number of cycles run: 470

Number of cycles run: 50000

Number of cycles run: 17034

Number of cycles run: 2396

Number of cycles run: 4227

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 5828

Number of cycles run: 2741

Number of cycles run: 37743

Number of cycles run: 3332

Number of cycles run: 2286

Number of cycles run: 8859

Number of cycles run: 3046

Number of cycles run: 1021

Number of cycles run: 12181

Number of cycles run: 3453

Number of cycles run: 2818

Number of cycles run: 4539

Number of cycles run: 2866

Number of cycles run: 451

Number of cycles run: 12541

Number of cycles run: 2505

Number of cycles run: 1556

Av cycles for attraction strength 1.0 is 9151

standard diviation is 14539.9230864

Testing average cycles for attraction strength 1.0

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3510

Number of cycles run: 7803

Number of cycles run: 1137

Number of cycles run: 2830

Number of cycles run: 14831

Number of cycles run: 2884

Number of cycles run: 3354

Number of cycles run: 1601

Number of cycles run: 1168

Number of cycles run: 3201

Number of cycles run: 1334

Number of cycles run: 3463

Number of cycles run: 7495

Number of cycles run: 1261

Number of cycles run: 1896

Number of cycles run: 3851

Number of cycles run: 5334

Number of cycles run: 9906

Number of cycles run: 2028

Number of cycles run: 721

Number of cycles run: 3023

Number of cycles run: 489

Number of cycles run: 16259

Number of cycles run: 1844

Number of cycles run: 674

Number of cycles run: 50000

Number of cycles run: 23245

Number of cycles run: 6303

Number of cycles run: 1298

Number of cycles run: 6916

Number of cycles run: 6240

Number of cycles run: 767

Number of cycles run: 1141

Number of cycles run: 1584

Number of cycles run: 2572

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 16276

Number of cycles run: 436

Number of cycles run: 1561

Number of cycles run: 1878

Number of cycles run: 4103

Number of cycles run: 3227

Number of cycles run: 50000

Number of cycles run: 4727

Number of cycles run: 1432

Number of cycles run: 2568

Number of cycles run: 1970

Number of cycles run: 6600

Number of cycles run: 10178

Number of cycles run: 16466

Number of cycles run: 7775

Number of cycles run: 482

Number of cycles run: 4122

Number of cycles run: 13474

Number of cycles run: 3695

Number of cycles run: 1183

Number of cycles run: 3127

Number of cycles run: 3461

Number of cycles run: 611

Number of cycles run: 50000

Number of cycles run: 9411

Number of cycles run: 1695

Number of cycles run: 2721

Number of cycles run: 1558

Number of cycles run: 478

Number of cycles run: 2811

Number of cycles run: 2191

Number of cycles run: 4248

Number of cycles run: 21711

Number of cycles run: 20164

Number of cycles run: 15724

Number of cycles run: 1074

Number of cycles run: 3299

Number of cycles run: 4051

Number of cycles run: 42151

Number of cycles run: 1773

Number of cycles run: 2701

Number of cycles run: 18901

Number of cycles run: 4175

Number of cycles run: 1217

Number of cycles run: 50000

Number of cycles run: 43375

Number of cycles run: 1027

Number of cycles run: 10575

Number of cycles run: 4805

Number of cycles run: 469

Number of cycles run: 2388

Number of cycles run: 2633

Number of cycles run: 3942

Number of cycles run: 1762

Number of cycles run: 45903

Number of cycles run: 22546

Number of cycles run: 2727

Number of cycles run: 50000

Number of cycles run: 9721

Number of cycles run: 8675

Number of cycles run: 5820

Av cycles for attraction strength 1.0 is 10397

standard diviation is 15101.1284304

Testing average cycles for attraction strength 1.0

Number of cycles run: 422

Number of cycles run: 1649

Number of cycles run: 1055

Number of cycles run: 441

Number of cycles run: 2125

Number of cycles run: 17879

Number of cycles run: 3393

Number of cycles run: 7420

Number of cycles run: 2286

Number of cycles run: 2710

Number of cycles run: 3252

Number of cycles run: 2851

Number of cycles run: 50000

Number of cycles run: 3188

Number of cycles run: 3604

Number of cycles run: 2063

Number of cycles run: 1558

Number of cycles run: 917

Number of cycles run: 1651

Number of cycles run: 4934

Number of cycles run: 3192

Number of cycles run: 1581

Number of cycles run: 16729

Number of cycles run: 2483

Number of cycles run: 1692

Number of cycles run: 3567

Number of cycles run: 820

Number of cycles run: 466

Number of cycles run: 2558

Number of cycles run: 3279

Number of cycles run: 1499

Number of cycles run: 50000

Number of cycles run: 2767

Number of cycles run: 4286

Number of cycles run: 50000

Number of cycles run: 8617

Number of cycles run: 50000

Number of cycles run: 4096

Number of cycles run: 9491

Number of cycles run: 26232

Number of cycles run: 615

Number of cycles run: 454

Number of cycles run: 7192

Number of cycles run: 2849

Number of cycles run: 1710

Number of cycles run: 4670

Number of cycles run: 5998

Number of cycles run: 3164

Number of cycles run: 4117

Number of cycles run: 4492

Number of cycles run: 595

Number of cycles run: 777

Number of cycles run: 6980

Number of cycles run: 11636

Number of cycles run: 3974

Number of cycles run: 3487

Number of cycles run: 50000

Number of cycles run: 943

Number of cycles run: 6663

Number of cycles run: 2777

Number of cycles run: 2161

Number of cycles run: 3280

Number of cycles run: 3802

Number of cycles run: 3127

Number of cycles run: 50000

Number of cycles run: 1845

Number of cycles run: 836

Number of cycles run: 2166

Number of cycles run: 9003

Number of cycles run: 2504

Number of cycles run: 15088

Number of cycles run: 3376

Number of cycles run: 2000

Number of cycles run: 32648

Number of cycles run: 6742

Number of cycles run: 446

Number of cycles run: 6972

Number of cycles run: 1938

Number of cycles run: 1861

Number of cycles run: 4479

Number of cycles run: 17731

Number of cycles run: 3176

Number of cycles run: 5082

Number of cycles run: 420

Number of cycles run: 32540

Number of cycles run: 2947

Number of cycles run: 2598

Number of cycles run: 2226

Number of cycles run: 12253

Number of cycles run: 6125

Number of cycles run: 4285

Number of cycles run: 1734

Number of cycles run: 1744

Number of cycles run: 2757

Number of cycles run: 3399

Number of cycles run: 5444

Number of cycles run: 1961

Number of cycles run: 3391

Number of cycles run: 3162

Number of cycles run: 4195

Av cycles for attraction strength 1.0 is 7512

standard diviation is 12228.3224313

Testing average cycles for attraction strength 1.0

Number of cycles run: 497

Number of cycles run: 46945

Number of cycles run: 2806

Number of cycles run: 27068

Number of cycles run: 446

Number of cycles run: 2668

Number of cycles run: 2325

Number of cycles run: 14883

Number of cycles run: 2502

Number of cycles run: 1543

Number of cycles run: 1287

Number of cycles run: 1714

Number of cycles run: 4205

Number of cycles run: 1496

Number of cycles run: 6027

Number of cycles run: 2272

Number of cycles run: 882

Number of cycles run: 50000

Number of cycles run: 3303

Number of cycles run: 4253

Number of cycles run: 2705

Number of cycles run: 4994

Number of cycles run: 6063

Number of cycles run: 3170

Number of cycles run: 1921

Number of cycles run: 50000

Number of cycles run: 2535

Number of cycles run: 4247

Number of cycles run: 2366

Number of cycles run: 1237

Number of cycles run: 7801

Number of cycles run: 1872

Number of cycles run: 2911

Number of cycles run: 2040

Number of cycles run: 1236

Number of cycles run: 2715

Number of cycles run: 797

Number of cycles run: 5835

Number of cycles run: 3380

Number of cycles run: 1384

Number of cycles run: 1182

Number of cycles run: 453

Number of cycles run: 2381

Number of cycles run: 21857

Number of cycles run: 4367

Number of cycles run: 2632

Number of cycles run: 592

Number of cycles run: 1346

Number of cycles run: 769

Number of cycles run: 50000

Number of cycles run: 3006

Number of cycles run: 14685

Number of cycles run: 33665

Number of cycles run: 4963

Number of cycles run: 3561

Number of cycles run: 3490

Number of cycles run: 3172

Number of cycles run: 677

Number of cycles run: 16735

Number of cycles run: 3150

Number of cycles run: 5137

Number of cycles run: 2680

Number of cycles run: 1798

Number of cycles run: 720

Number of cycles run: 50000

Number of cycles run: 16377

Number of cycles run: 17454

Number of cycles run: 3571

Number of cycles run: 50000

Number of cycles run: 4621

Number of cycles run: 50000

Number of cycles run: 1070

Number of cycles run: 458

Number of cycles run: 1887

Number of cycles run: 30792

Number of cycles run: 2554

Number of cycles run: 1797

Number of cycles run: 13978

Number of cycles run: 34154

Number of cycles run: 3482

Number of cycles run: 5283

Number of cycles run: 1115

Number of cycles run: 13068

Number of cycles run: 6529

Number of cycles run: 3185

Number of cycles run: 6379

Number of cycles run: 2484

Number of cycles run: 3727

Number of cycles run: 2544

Number of cycles run: 3528

Number of cycles run: 27625

Number of cycles run: 4695

Number of cycles run: 1120

Number of cycles run: 1276

Number of cycles run: 434

Number of cycles run: 5752

Number of cycles run: 50000

Number of cycles run: 4848

Number of cycles run: 2485

Number of cycles run: 4326

Av cycles for attraction strength 1.0 is 9019

standard diviation is 13962.943743

Testing average cycles for attraction strength 1.0

Number of cycles run: 50000

Number of cycles run: 2930

Number of cycles run: 1436

Number of cycles run: 2766

Number of cycles run: 2503

Number of cycles run: 930

Number of cycles run: 1032

Number of cycles run: 1052

Number of cycles run: 2390

Number of cycles run: 1761

Number of cycles run: 5802

Number of cycles run: 8846

Number of cycles run: 50000

Number of cycles run: 904

Number of cycles run: 6305

Number of cycles run: 12930

Number of cycles run: 2234

Number of cycles run: 12188

Number of cycles run: 8334

Number of cycles run: 3587

Number of cycles run: 615

Number of cycles run: 2940

Number of cycles run: 1503

Number of cycles run: 4545

Number of cycles run: 3927

Number of cycles run: 17941

Number of cycles run: 1673

Number of cycles run: 21992

Number of cycles run: 877

Number of cycles run: 4929

Number of cycles run: 7304

Number of cycles run: 50000

Number of cycles run: 4479

Number of cycles run: 3575

Number of cycles run: 8537

Number of cycles run: 646

Number of cycles run: 5260

Number of cycles run: 2425

Number of cycles run: 2380

Number of cycles run: 3336

Number of cycles run: 6049

Number of cycles run: 1580

Number of cycles run: 2619

Number of cycles run: 6004

Number of cycles run: 653

Number of cycles run: 1534

Number of cycles run: 551

Number of cycles run: 2862

Number of cycles run: 5666

Number of cycles run: 50000

Number of cycles run: 3376

Number of cycles run: 870

Number of cycles run: 4034

Number of cycles run: 2332

Number of cycles run: 1886

Number of cycles run: 2705

Number of cycles run: 43124

Number of cycles run: 4566

Number of cycles run: 5316

Number of cycles run: 1633

Number of cycles run: 4596

Number of cycles run: 4467

Number of cycles run: 2525

Number of cycles run: 2090

Number of cycles run: 2495

Number of cycles run: 2011

Number of cycles run: 4699

Number of cycles run: 2437

Number of cycles run: 1268

Number of cycles run: 3149

Number of cycles run: 2421

Number of cycles run: 9289

Number of cycles run: 2731

Number of cycles run: 834

Number of cycles run: 2489

Number of cycles run: 3845

Number of cycles run: 13999

Number of cycles run: 2242

Number of cycles run: 1717

Number of cycles run: 1576

Number of cycles run: 1658

Number of cycles run: 626

Number of cycles run: 2016

Number of cycles run: 19148

Number of cycles run: 2315

Number of cycles run: 1358

Number of cycles run: 47517

Number of cycles run: 2033

Number of cycles run: 31449

Number of cycles run: 2764

Number of cycles run: 997

Number of cycles run: 2197

Number of cycles run: 3411

Number of cycles run: 1523

Number of cycles run: 2242

Number of cycles run: 2459

Number of cycles run: 1658

Number of cycles run: 4024

Number of cycles run: 2397

Number of cycles run: 2486

Av cycles for attraction strength 1.0 is 6793

standard diviation is 11581.9261843