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\_S6.py =====

Testing average cycles for attraction strength 0.6

Number of cycles run: 50000

Number of cycles run: 1435

Number of cycles run: 9006

Number of cycles run: 50000

Number of cycles run: 21140

Number of cycles run: 8063

Number of cycles run: 1706

Number of cycles run: 7266

Number of cycles run: 4616

Number of cycles run: 2194

Number of cycles run: 1672

Number of cycles run: 2368

Number of cycles run: 1667

Number of cycles run: 50000

Number of cycles run: 1670

Number of cycles run: 25200

Number of cycles run: 1358

Number of cycles run: 3094

Number of cycles run: 10798

Number of cycles run: 6093

Number of cycles run: 7947

Number of cycles run: 945

Number of cycles run: 565

Number of cycles run: 9080

Number of cycles run: 2304

Number of cycles run: 447

Number of cycles run: 2406

Number of cycles run: 1167

Number of cycles run: 2869

Number of cycles run: 50000

Number of cycles run: 505

Number of cycles run: 619

Number of cycles run: 3501

Number of cycles run: 3686

Number of cycles run: 2467

Number of cycles run: 1907

Number of cycles run: 5939

Number of cycles run: 620

Number of cycles run: 8045

Number of cycles run: 1938

Number of cycles run: 472

Number of cycles run: 50000

Number of cycles run: 16673

Number of cycles run: 2731

Number of cycles run: 669

Number of cycles run: 643

Number of cycles run: 5714

Number of cycles run: 1889

Number of cycles run: 3252

Number of cycles run: 7956

Number of cycles run: 9186

Number of cycles run: 1552

Number of cycles run: 8161

Number of cycles run: 1174

Number of cycles run: 2203

Number of cycles run: 2189

Number of cycles run: 50000

Number of cycles run: 7261

Number of cycles run: 4857

Number of cycles run: 4823

Number of cycles run: 4250

Number of cycles run: 865

Number of cycles run: 3087

Number of cycles run: 1613

Number of cycles run: 21631

Number of cycles run: 2139

Number of cycles run: 3636

Number of cycles run: 2612

Number of cycles run: 4295

Number of cycles run: 5592

Number of cycles run: 50000

Number of cycles run: 15552

Number of cycles run: 5337

Number of cycles run: 1860

Number of cycles run: 2883

Number of cycles run: 518

Number of cycles run: 3281

Number of cycles run: 1196

Number of cycles run: 13664

Number of cycles run: 2455

Number of cycles run: 468

Number of cycles run: 3483

Number of cycles run: 5571

Number of cycles run: 3005

Number of cycles run: 1879

Number of cycles run: 547

Number of cycles run: 8302

Number of cycles run: 2698

Number of cycles run: 2690

Number of cycles run: 2134

Number of cycles run: 5683

Number of cycles run: 2937

Number of cycles run: 3968

Number of cycles run: 3199

Number of cycles run: 2666

Number of cycles run: 2352

Number of cycles run: 3660

Number of cycles run: 640

Number of cycles run: 3385

Number of cycles run: 4325

Av cycles for attraction strength 0.6 is 7577

standard diviation is 12531.1159581

Testing average cycles for attraction strength 0.6

Number of cycles run: 3364

Number of cycles run: 4219

Number of cycles run: 1847

Number of cycles run: 5307

Number of cycles run: 24203

Number of cycles run: 5168

Number of cycles run: 38096

Number of cycles run: 30527

Number of cycles run: 17661

Number of cycles run: 622

Number of cycles run: 2399

Number of cycles run: 3594

Number of cycles run: 2961

Number of cycles run: 559

Number of cycles run: 2297

Number of cycles run: 50000

Number of cycles run: 1900

Number of cycles run: 2042

Number of cycles run: 3056

Number of cycles run: 1060

Number of cycles run: 1447

Number of cycles run: 2173

Number of cycles run: 2270

Number of cycles run: 50000

Number of cycles run: 2060

Number of cycles run: 5323

Number of cycles run: 1009

Number of cycles run: 1405

Number of cycles run: 2977

Number of cycles run: 3758

Number of cycles run: 2869

Number of cycles run: 821

Number of cycles run: 50000

Number of cycles run: 2607

Number of cycles run: 1705

Number of cycles run: 4667

Number of cycles run: 5179

Number of cycles run: 2182

Number of cycles run: 3630

Number of cycles run: 429

Number of cycles run: 50000

Number of cycles run: 4115

Number of cycles run: 3536

Number of cycles run: 663

Number of cycles run: 50000

Number of cycles run: 2090

Number of cycles run: 6241

Number of cycles run: 3393

Number of cycles run: 1194

Number of cycles run: 7955

Number of cycles run: 2488

Number of cycles run: 50000

Number of cycles run: 3476

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1905

Number of cycles run: 973

Number of cycles run: 2666

Number of cycles run: 1153

Number of cycles run: 4098

Number of cycles run: 4394

Number of cycles run: 1484

Number of cycles run: 23419

Number of cycles run: 787

Number of cycles run: 2149

Number of cycles run: 3486

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 13527

Number of cycles run: 2021

Number of cycles run: 5466

Number of cycles run: 651

Number of cycles run: 2112

Number of cycles run: 1796

Number of cycles run: 6059

Number of cycles run: 1935

Number of cycles run: 1646

Number of cycles run: 1549

Number of cycles run: 9718

Number of cycles run: 2839

Number of cycles run: 2485

Number of cycles run: 2407

Number of cycles run: 50000

Number of cycles run: 896

Number of cycles run: 2564

Number of cycles run: 50000

Number of cycles run: 19740

Number of cycles run: 4193

Number of cycles run: 3986

Number of cycles run: 2181

Number of cycles run: 11904

Number of cycles run: 5164

Number of cycles run: 18617

Number of cycles run: 17362

Number of cycles run: 8993

Number of cycles run: 9811

Number of cycles run: 27165

Number of cycles run: 4770

Number of cycles run: 3939

Number of cycles run: 810

Av cycles for attraction strength 0.6 is 10753

standard diviation is 16013.6714662

Testing average cycles for attraction strength 0.6

Number of cycles run: 7919

Number of cycles run: 2881

Number of cycles run: 40401

Number of cycles run: 4191

Number of cycles run: 963

Number of cycles run: 6342

Number of cycles run: 5915

Number of cycles run: 2034

Number of cycles run: 3217

Number of cycles run: 3972

Number of cycles run: 4770

Number of cycles run: 5810

Number of cycles run: 39314

Number of cycles run: 6989

Number of cycles run: 2642

Number of cycles run: 6197

Number of cycles run: 3459

Number of cycles run: 984

Number of cycles run: 2803

Number of cycles run: 1492

Number of cycles run: 1983

Number of cycles run: 2909

Number of cycles run: 11634

Number of cycles run: 985

Number of cycles run: 40147

Number of cycles run: 2109

Number of cycles run: 613

Number of cycles run: 2558

Number of cycles run: 430

Number of cycles run: 780

Number of cycles run: 1606

Number of cycles run: 1436

Number of cycles run: 4039

Number of cycles run: 2559

Number of cycles run: 2794

Number of cycles run: 3192

Number of cycles run: 1109

Number of cycles run: 530

Number of cycles run: 3206

Number of cycles run: 50000

Number of cycles run: 3366

Number of cycles run: 510

Number of cycles run: 4469

Number of cycles run: 7614

Number of cycles run: 1028

Number of cycles run: 3055

Number of cycles run: 6524

Number of cycles run: 10928

Number of cycles run: 2252

Number of cycles run: 4560

Number of cycles run: 50000

Number of cycles run: 6978

Number of cycles run: 3056

Number of cycles run: 1284

Number of cycles run: 4419

Number of cycles run: 2479

Number of cycles run: 2091

Number of cycles run: 3503

Number of cycles run: 24520

Number of cycles run: 11275

Number of cycles run: 2409

Number of cycles run: 2521

Number of cycles run: 2509

Number of cycles run: 5262

Number of cycles run: 975

Number of cycles run: 17333

Number of cycles run: 3674

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 14179

Number of cycles run: 510

Number of cycles run: 1607

Number of cycles run: 463

Number of cycles run: 1903

Number of cycles run: 3774

Number of cycles run: 7376

Number of cycles run: 3183

Number of cycles run: 478

Number of cycles run: 3421

Number of cycles run: 4001

Number of cycles run: 6393

Number of cycles run: 3116

Number of cycles run: 4950

Number of cycles run: 982

Number of cycles run: 570

Number of cycles run: 50000

Number of cycles run: 5697

Number of cycles run: 3796

Number of cycles run: 3717

Number of cycles run: 3722

Number of cycles run: 4320

Number of cycles run: 2891

Number of cycles run: 2168

Number of cycles run: 2533

Number of cycles run: 4099

Number of cycles run: 2959

Number of cycles run: 2753

Number of cycles run: 3630

Number of cycles run: 2193

Number of cycles run: 573

Av cycles for attraction strength 0.6 is 7274

standard diviation is 12151.6249463

Testing average cycles for attraction strength 0.6

Number of cycles run: 482

Number of cycles run: 50000

Number of cycles run: 2650

Number of cycles run: 1774

Number of cycles run: 2641

Number of cycles run: 2002

Number of cycles run: 4151

Number of cycles run: 1596

Number of cycles run: 50000

Number of cycles run: 2915

Number of cycles run: 794

Number of cycles run: 745

Number of cycles run: 5836

Number of cycles run: 50000

Number of cycles run: 3920

Number of cycles run: 464

Number of cycles run: 1025

Number of cycles run: 50000

Number of cycles run: 1145

Number of cycles run: 50000

Number of cycles run: 2921

Number of cycles run: 622

Number of cycles run: 2888

Number of cycles run: 3780

Number of cycles run: 10967

Number of cycles run: 412

Number of cycles run: 622

Number of cycles run: 1649

Number of cycles run: 11281

Number of cycles run: 3704

Number of cycles run: 7390

Number of cycles run: 2565

Number of cycles run: 11426

Number of cycles run: 660

Number of cycles run: 3999

Number of cycles run: 1536

Number of cycles run: 3663

Number of cycles run: 1279

Number of cycles run: 50000

Number of cycles run: 8292

Number of cycles run: 4718

Number of cycles run: 9165

Number of cycles run: 3541

Number of cycles run: 1287

Number of cycles run: 4702

Number of cycles run: 50000

Number of cycles run: 2562

Number of cycles run: 3228

Number of cycles run: 3469

Number of cycles run: 3711

Number of cycles run: 903

Number of cycles run: 3333

Number of cycles run: 5718

Number of cycles run: 2332

Number of cycles run: 3881

Number of cycles run: 6680

Number of cycles run: 9511

Number of cycles run: 3566

Number of cycles run: 8314

Number of cycles run: 4066

Number of cycles run: 2344

Number of cycles run: 536

Number of cycles run: 1572

Number of cycles run: 1849

Number of cycles run: 5139

Number of cycles run: 2831

Number of cycles run: 2398

Number of cycles run: 1351

Number of cycles run: 6195

Number of cycles run: 461

Number of cycles run: 1162

Number of cycles run: 3652

Number of cycles run: 17483

Number of cycles run: 7871

Number of cycles run: 11237

Number of cycles run: 3164

Number of cycles run: 707

Number of cycles run: 2668

Number of cycles run: 6015

Number of cycles run: 5292

Number of cycles run: 2282

Number of cycles run: 869

Number of cycles run: 5279

Number of cycles run: 1685

Number of cycles run: 1576

Number of cycles run: 1648

Number of cycles run: 641

Number of cycles run: 1320

Number of cycles run: 1249

Number of cycles run: 13410

Number of cycles run: 1041

Number of cycles run: 2799

Number of cycles run: 852

Number of cycles run: 50000

Number of cycles run: 955

Number of cycles run: 4177

Number of cycles run: 4316

Number of cycles run: 3197

Number of cycles run: 467

Number of cycles run: 36915

Av cycles for attraction strength 0.6 is 7650

standard diviation is 13352.8023861

Testing average cycles for attraction strength 0.6

Number of cycles run: 50000

Number of cycles run: 3598

Number of cycles run: 8141

Number of cycles run: 50000

Number of cycles run: 2238

Number of cycles run: 841

Number of cycles run: 50000

Number of cycles run: 3175

Number of cycles run: 3400

Number of cycles run: 4524

Number of cycles run: 3075

Number of cycles run: 3867

Number of cycles run: 2956

Number of cycles run: 3587

Number of cycles run: 3514

Number of cycles run: 597

Number of cycles run: 6697

Number of cycles run: 2288

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 14758

Number of cycles run: 1424

Number of cycles run: 1444

Number of cycles run: 4389

Number of cycles run: 2169

Number of cycles run: 35558

Number of cycles run: 1239

Number of cycles run: 13015

Number of cycles run: 2560

Number of cycles run: 1307

Number of cycles run: 15372

Number of cycles run: 2971

Number of cycles run: 6672

Number of cycles run: 20109

Number of cycles run: 6965

Number of cycles run: 2213

Number of cycles run: 1851

Number of cycles run: 50000

Number of cycles run: 4429

Number of cycles run: 9829

Number of cycles run: 8208

Number of cycles run: 966

Number of cycles run: 438

Number of cycles run: 791

Number of cycles run: 776

Number of cycles run: 2681

Number of cycles run: 1213

Number of cycles run: 2606

Number of cycles run: 516

Number of cycles run: 748

Number of cycles run: 4996

Number of cycles run: 3417

Number of cycles run: 50000

Number of cycles run: 9919

Number of cycles run: 556

Number of cycles run: 5329

Number of cycles run: 664

Number of cycles run: 10616

Number of cycles run: 16466

Number of cycles run: 7591

Number of cycles run: 3190

Number of cycles run: 4973

Number of cycles run: 4716

Number of cycles run: 10772

Number of cycles run: 13343

Number of cycles run: 771

Number of cycles run: 50000

Number of cycles run: 8235

Number of cycles run: 50000

Number of cycles run: 5920

Number of cycles run: 6317

Number of cycles run: 846

Number of cycles run: 526

Number of cycles run: 2228

Number of cycles run: 7679

Number of cycles run: 15726

Number of cycles run: 2454

Number of cycles run: 7173

Number of cycles run: 50000

Number of cycles run: 605

Number of cycles run: 35462

Number of cycles run: 3163

Number of cycles run: 550

Number of cycles run: 3016

Number of cycles run: 1591

Number of cycles run: 18882

Number of cycles run: 50000

Number of cycles run: 886

Number of cycles run: 648

Number of cycles run: 474

Number of cycles run: 2766

Number of cycles run: 2146

Number of cycles run: 3048

Number of cycles run: 6143

Number of cycles run: 6298

Number of cycles run: 4810

Number of cycles run: 1477

Number of cycles run: 9786

Number of cycles run: 2559

Number of cycles run: 1580

Av cycles for attraction strength 0.6 is 10300

standard diviation is 15277.0965643

Testing average cycles for attraction strength 0.6

Number of cycles run: 19296

Number of cycles run: 6720

Number of cycles run: 1299

Number of cycles run: 8051

Number of cycles run: 1875

Number of cycles run: 50000

Number of cycles run: 1552

Number of cycles run: 620

Number of cycles run: 1398

Number of cycles run: 2681

Number of cycles run: 4984

Number of cycles run: 4833

Number of cycles run: 6252

Number of cycles run: 3359

Number of cycles run: 50000

Number of cycles run: 24419

Number of cycles run: 50000

Number of cycles run: 3063

Number of cycles run: 2572

Number of cycles run: 9755

Number of cycles run: 2686

Number of cycles run: 544

Number of cycles run: 50000

Number of cycles run: 3017

Number of cycles run: 2981

Number of cycles run: 3474

Number of cycles run: 1657

Number of cycles run: 1345

Number of cycles run: 1022

Number of cycles run: 18859

Number of cycles run: 1437

Number of cycles run: 3813

Number of cycles run: 4442

Number of cycles run: 4090

Number of cycles run: 1263

Number of cycles run: 2204

Number of cycles run: 506

Number of cycles run: 3157

Number of cycles run: 3987

Number of cycles run: 3165

Number of cycles run: 2579

Number of cycles run: 1126

Number of cycles run: 9800

Number of cycles run: 50000

Number of cycles run: 47161

Number of cycles run: 3006

Number of cycles run: 3803

Number of cycles run: 2031

Number of cycles run: 1299

Number of cycles run: 50000

Number of cycles run: 11081

Number of cycles run: 624

Number of cycles run: 562

Number of cycles run: 6229

Number of cycles run: 3506

Number of cycles run: 1217

Number of cycles run: 1743

Number of cycles run: 3598

Number of cycles run: 3918

Number of cycles run: 5569

Number of cycles run: 6525

Number of cycles run: 4668

Number of cycles run: 3001

Number of cycles run: 12609

Number of cycles run: 7985

Number of cycles run: 4777

Number of cycles run: 4242

Number of cycles run: 648

Number of cycles run: 2209

Number of cycles run: 567

Number of cycles run: 2470

Number of cycles run: 3642

Number of cycles run: 4359

Number of cycles run: 1127

Number of cycles run: 491

Number of cycles run: 816

Number of cycles run: 2235

Number of cycles run: 2788

Number of cycles run: 1224

Number of cycles run: 3312

Number of cycles run: 1661

Number of cycles run: 683

Number of cycles run: 638

Number of cycles run: 5472

Number of cycles run: 3743

Number of cycles run: 50000

Number of cycles run: 10795

Number of cycles run: 1955

Number of cycles run: 7867

Number of cycles run: 639

Number of cycles run: 1763

Number of cycles run: 1468

Number of cycles run: 1374

Number of cycles run: 23746

Number of cycles run: 3307

Number of cycles run: 37045

Number of cycles run: 9540

Number of cycles run: 11419

Number of cycles run: 10589

Number of cycles run: 2852

Av cycles for attraction strength 0.6 is 8314

standard diviation is 13452.7653856