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\_S1.py =====

/7=9455.1

Testing average cycles for attraction strength 0.4

Number of cycles run: 2953

Number of cycles run: 974

Number of cycles run: 2667

Number of cycles run: 1499

Number of cycles run: 4997

Number of cycles run: 2517

Number of cycles run: 3648

Number of cycles run: 10916

Number of cycles run: 2001

Number of cycles run: 29483

Number of cycles run: 50000

Number of cycles run: 2470

Number of cycles run: 8343

Number of cycles run: 5199

Number of cycles run: 1643

Number of cycles run: 1851

Number of cycles run: 3321

Number of cycles run: 5198

Number of cycles run: 1649

Number of cycles run: 3369

Number of cycles run: 5486

Number of cycles run: 2500

Number of cycles run: 476

Number of cycles run: 1929

Number of cycles run: 2414

Number of cycles run: 1058

Number of cycles run: 6203

Number of cycles run: 3036

Number of cycles run: 3899

Number of cycles run: 3556

Number of cycles run: 5062

Number of cycles run: 935

Number of cycles run: 1842

Number of cycles run: 4274

Number of cycles run: 1210

Number of cycles run: 41262

Number of cycles run: 2222

Number of cycles run: 6578

Number of cycles run: 2022

Number of cycles run: 8771

Number of cycles run: 3208

Number of cycles run: 13546

Number of cycles run: 18623

Number of cycles run: 21641

Number of cycles run: 7900

Number of cycles run: 50000

Number of cycles run: 11461

Number of cycles run: 2273

Number of cycles run: 2702

Number of cycles run: 10338

Number of cycles run: 1528

Number of cycles run: 1816

Number of cycles run: 3413

Number of cycles run: 4972

Number of cycles run: 1324

Number of cycles run: 29855

Number of cycles run: 50000

Number of cycles run: 4396

Number of cycles run: 2637

Number of cycles run: 596

Number of cycles run: 4993

Number of cycles run: 3794

Number of cycles run: 2699

Number of cycles run: 3298

Number of cycles run: 3312

Number of cycles run: 487

Number of cycles run: 1388

Number of cycles run: 10936

Number of cycles run: 2400

Number of cycles run: 27950

Number of cycles run: 3194

Number of cycles run: 970

Number of cycles run: 32186

Number of cycles run: 50000

Number of cycles run: 2117

Number of cycles run: 8058

Number of cycles run: 2783

Number of cycles run: 7757

Number of cycles run: 11229

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6081

Number of cycles run: 977

Number of cycles run: 4000

Number of cycles run: 6561

Number of cycles run: 50000

Number of cycles run: 1475

Number of cycles run: 1251

Number of cycles run: 50000

Number of cycles run: 2734

Number of cycles run: 2749

Number of cycles run: 1983

Number of cycles run: 21377

Number of cycles run: 931

Number of cycles run: 3899

Number of cycles run: 5903

Number of cycles run: 2250

Number of cycles run: 6002

Number of cycles run: 12624

Number of cycles run: 20996

Av cycles for attraction strength 0.4 is 9730

standard diviation is 14068.4100599

Testing average cycles for attraction strength 0.4

Number of cycles run: 4730

Number of cycles run: 7910

Number of cycles run: 4931

Number of cycles run: 10724

Number of cycles run: 3947

Number of cycles run: 3046

Number of cycles run: 856

Number of cycles run: 50000

Number of cycles run: 13274

Number of cycles run: 5131

Number of cycles run: 1321

Number of cycles run: 4717

Number of cycles run: 2633

Number of cycles run: 1998

Number of cycles run: 2146

Number of cycles run: 3123

Number of cycles run: 1858

Number of cycles run: 4022

Number of cycles run: 5437

Number of cycles run: 7502

Number of cycles run: 1989

Number of cycles run: 439

Number of cycles run: 13361

Number of cycles run: 9953

Number of cycles run: 1166

Number of cycles run: 14426

Number of cycles run: 16696

Number of cycles run: 1009

Number of cycles run: 50000

Number of cycles run: 4168

Number of cycles run: 1825

Number of cycles run: 2489

Number of cycles run: 50000

Number of cycles run: 471

Number of cycles run: 1987

Number of cycles run: 3466

Number of cycles run: 1087

Number of cycles run: 5832

Number of cycles run: 1898

Number of cycles run: 9074

Number of cycles run: 5456

Number of cycles run: 50000

Number of cycles run: 8037

Number of cycles run: 1226

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3351

Number of cycles run: 2133

Number of cycles run: 1331

Number of cycles run: 10602

Number of cycles run: 40970

Number of cycles run: 833

Number of cycles run: 1141

Number of cycles run: 2094

Number of cycles run: 5482

Number of cycles run: 8996

Number of cycles run: 5437

Number of cycles run: 3647

Number of cycles run: 2783

Number of cycles run: 454

Number of cycles run: 5852

Number of cycles run: 50000

Number of cycles run: 2526

Number of cycles run: 8848

Number of cycles run: 3277

Number of cycles run: 3309

Number of cycles run: 2919

Number of cycles run: 1036

Number of cycles run: 492

Number of cycles run: 1505

Number of cycles run: 5137

Number of cycles run: 891

Number of cycles run: 4052

Number of cycles run: 1894

Number of cycles run: 1347

Number of cycles run: 4748

Number of cycles run: 7210

Number of cycles run: 9209

Number of cycles run: 984

Number of cycles run: 2001

Number of cycles run: 2581

Number of cycles run: 50000

Number of cycles run: 2287

Number of cycles run: 3725

Number of cycles run: 3544

Number of cycles run: 3837

Number of cycles run: 7270

Number of cycles run: 6344

Number of cycles run: 1411

Number of cycles run: 3359

Number of cycles run: 5973

Number of cycles run: 7309

Number of cycles run: 44069

Number of cycles run: 1489

Number of cycles run: 1933

Number of cycles run: 50000

Number of cycles run: 3756

Number of cycles run: 2303

Number of cycles run: 12917

Number of cycles run: 7667

Av cycles for attraction strength 0.4 is 9236

standard diviation is 14351.8547013

Testing average cycles for attraction strength 0.4

Number of cycles run: 2682

Number of cycles run: 673

Number of cycles run: 5376

Number of cycles run: 1465

Number of cycles run: 3206

Number of cycles run: 10795

Number of cycles run: 1820

Number of cycles run: 6773

Number of cycles run: 4218

Number of cycles run: 5268

Number of cycles run: 1772

Number of cycles run: 1751

Number of cycles run: 10787

Number of cycles run: 1451

Number of cycles run: 1394

Number of cycles run: 50000

Number of cycles run: 5633

Number of cycles run: 4635

Number of cycles run: 32315

Number of cycles run: 50000

Number of cycles run: 2924

Number of cycles run: 3205

Number of cycles run: 3047

Number of cycles run: 2698

Number of cycles run: 4339

Number of cycles run: 2789

Number of cycles run: 3686

Number of cycles run: 4756

Number of cycles run: 1175

Number of cycles run: 15959

Number of cycles run: 25044

Number of cycles run: 5479

Number of cycles run: 4276

Number of cycles run: 1293

Number of cycles run: 1322

Number of cycles run: 2137

Number of cycles run: 2971

Number of cycles run: 1177

Number of cycles run: 426

Number of cycles run: 4832

Number of cycles run: 3619

Number of cycles run: 2441

Number of cycles run: 50000

Number of cycles run: 3850

Number of cycles run: 2984

Number of cycles run: 4664

Number of cycles run: 6054

Number of cycles run: 753

Number of cycles run: 3766

Number of cycles run: 7777

Number of cycles run: 2154

Number of cycles run: 50000

Number of cycles run: 3059

Number of cycles run: 43647

Number of cycles run: 3471

Number of cycles run: 50000

Number of cycles run: 1655

Number of cycles run: 3828

Number of cycles run: 7053

Number of cycles run: 2216

Number of cycles run: 1566

Number of cycles run: 934

Number of cycles run: 4211

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3534

Number of cycles run: 8122

Number of cycles run: 50000

Number of cycles run: 1880

Number of cycles run: 11595

Number of cycles run: 12341

Number of cycles run: 3353

Number of cycles run: 18329

Number of cycles run: 50000

Number of cycles run: 3749

Number of cycles run: 2720

Number of cycles run: 3028

Number of cycles run: 6095

Number of cycles run: 2939

Number of cycles run: 1056

Number of cycles run: 5075

Number of cycles run: 21667

Number of cycles run: 3028

Number of cycles run: 2270

Number of cycles run: 5187

Number of cycles run: 854

Number of cycles run: 593

Number of cycles run: 6033

Number of cycles run: 1269

Number of cycles run: 2697

Number of cycles run: 2446

Number of cycles run: 25930

Number of cycles run: 467

Number of cycles run: 5306

Number of cycles run: 2104

Number of cycles run: 50000

Number of cycles run: 12409

Number of cycles run: 5507

Number of cycles run: 2558

Number of cycles run: 5608

Av cycles for attraction strength 0.4 is 9950

standard diviation is 14963.2231876

Testing average cycles for attraction strength 0.4

Number of cycles run: 3858

Number of cycles run: 1708

Number of cycles run: 4362

Number of cycles run: 5239

Number of cycles run: 3269

Number of cycles run: 2231

Number of cycles run: 50000

Number of cycles run: 2792

Number of cycles run: 3892

Number of cycles run: 7357

Number of cycles run: 9562

Number of cycles run: 50000

Number of cycles run: 2294

Number of cycles run: 1169

Number of cycles run: 3594

Number of cycles run: 625

Number of cycles run: 1284

Number of cycles run: 10965

Number of cycles run: 11054

Number of cycles run: 50000

Number of cycles run: 5552

Number of cycles run: 7569

Number of cycles run: 2299

Number of cycles run: 1108

Number of cycles run: 8096

Number of cycles run: 4347

Number of cycles run: 24254

Number of cycles run: 5316

Number of cycles run: 2094

Number of cycles run: 4194

Number of cycles run: 2605

Number of cycles run: 3548

Number of cycles run: 5656

Number of cycles run: 2819

Number of cycles run: 3189

Number of cycles run: 1492

Number of cycles run: 4300

Number of cycles run: 5225

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4258

Number of cycles run: 3344

Number of cycles run: 1385

Number of cycles run: 18176

Number of cycles run: 2320

Number of cycles run: 2458

Number of cycles run: 2068

Number of cycles run: 2479

Number of cycles run: 2173

Number of cycles run: 26873

Number of cycles run: 3234

Number of cycles run: 4824

Number of cycles run: 4321

Number of cycles run: 4389

Number of cycles run: 5129

Number of cycles run: 3924

Number of cycles run: 1072

Number of cycles run: 7058

Number of cycles run: 50000

Number of cycles run: 1171

Number of cycles run: 29449

Number of cycles run: 1225

Number of cycles run: 50000

Number of cycles run: 2173

Number of cycles run: 1089

Number of cycles run: 951

Number of cycles run: 3082

Number of cycles run: 50000

Number of cycles run: 2651

Number of cycles run: 11753

Number of cycles run: 29109

Number of cycles run: 6580

Number of cycles run: 5099

Number of cycles run: 4018

Number of cycles run: 3208

Number of cycles run: 4631

Number of cycles run: 936

Number of cycles run: 2115

Number of cycles run: 19092

Number of cycles run: 3314

Number of cycles run: 6452

Number of cycles run: 3101

Number of cycles run: 6171

Number of cycles run: 48754

Number of cycles run: 865

Number of cycles run: 3552

Number of cycles run: 1549

Number of cycles run: 3083

Number of cycles run: 2413

Number of cycles run: 783

Number of cycles run: 1743

Number of cycles run: 4054

Number of cycles run: 4853

Number of cycles run: 12228

Number of cycles run: 2746

Number of cycles run: 2180

Number of cycles run: 16685

Number of cycles run: 2571

Number of cycles run: 3723

Number of cycles run: 10397

Av cycles for attraction strength 0.4 is 9379

standard diviation is 14002.6477334

Testing average cycles for attraction strength 0.4

Number of cycles run: 23698

Number of cycles run: 2636

Number of cycles run: 3440

Number of cycles run: 6886

Number of cycles run: 6145

Number of cycles run: 1163

Number of cycles run: 751

Number of cycles run: 14413

Number of cycles run: 5597

Number of cycles run: 4521

Number of cycles run: 4623

Number of cycles run: 3418

Number of cycles run: 5296

Number of cycles run: 3293

Number of cycles run: 1133

Number of cycles run: 2217

Number of cycles run: 4689

Number of cycles run: 3214

Number of cycles run: 4934

Number of cycles run: 2146

Number of cycles run: 5706

Number of cycles run: 1216

Number of cycles run: 1696

Number of cycles run: 9620

Number of cycles run: 928

Number of cycles run: 2685

Number of cycles run: 5494

Number of cycles run: 1819

Number of cycles run: 1858

Number of cycles run: 1275

Number of cycles run: 50000

Number of cycles run: 1322

Number of cycles run: 10768

Number of cycles run: 2449

Number of cycles run: 9389

Number of cycles run: 621

Number of cycles run: 5857

Number of cycles run: 825

Number of cycles run: 1603

Number of cycles run: 2899

Number of cycles run: 6458

Number of cycles run: 390

Number of cycles run: 2973

Number of cycles run: 2969

Number of cycles run: 8302

Number of cycles run: 1105

Number of cycles run: 11584

Number of cycles run: 6474

Number of cycles run: 5353

Number of cycles run: 3418

Number of cycles run: 4234

Number of cycles run: 7190

Number of cycles run: 2925

Number of cycles run: 50000

Number of cycles run: 11401

Number of cycles run: 5835

Number of cycles run: 6739

Number of cycles run: 50000

Number of cycles run: 7974

Number of cycles run: 7289

Number of cycles run: 49744

Number of cycles run: 35665

Number of cycles run: 2753

Number of cycles run: 3004

Number of cycles run: 2566

Number of cycles run: 5241

Number of cycles run: 736

Number of cycles run: 2630

Number of cycles run: 1468

Number of cycles run: 4785

Number of cycles run: 2347

Number of cycles run: 862

Number of cycles run: 13733

Number of cycles run: 742

Number of cycles run: 439

Number of cycles run: 50000

Number of cycles run: 5110

Number of cycles run: 1998

Number of cycles run: 50000

Number of cycles run: 6445

Number of cycles run: 5784

Number of cycles run: 1689

Number of cycles run: 5465

Number of cycles run: 2595

Number of cycles run: 626

Number of cycles run: 32495

Number of cycles run: 2557

Number of cycles run: 3530

Number of cycles run: 50000

Number of cycles run: 2585

Number of cycles run: 2145

Number of cycles run: 6338

Number of cycles run: 998

Number of cycles run: 3242

Number of cycles run: 4336

Number of cycles run: 11807

Number of cycles run: 1983

Number of cycles run: 50000

Number of cycles run: 689

Number of cycles run: 462

Av cycles for attraction strength 0.4 is 8544

standard diviation is 13454.4216242

Testing average cycles for attraction strength 0.4

Number of cycles run: 4356

Number of cycles run: 5217

Number of cycles run: 5706

Number of cycles run: 4012

Number of cycles run: 5501

Number of cycles run: 9967

Number of cycles run: 8218

Number of cycles run: 3012

Number of cycles run: 3113

Number of cycles run: 50000

Number of cycles run: 24755

Number of cycles run: 4819

Number of cycles run: 2793

Number of cycles run: 2112

Number of cycles run: 2066

Number of cycles run: 5700

Number of cycles run: 2606

Number of cycles run: 3799

Number of cycles run: 2508

Number of cycles run: 3844

Number of cycles run: 990

Number of cycles run: 50000

Number of cycles run: 4410

Number of cycles run: 36168

Number of cycles run: 10430

Number of cycles run: 30815

Number of cycles run: 1233

Number of cycles run: 2149

Number of cycles run: 50000

Number of cycles run: 960

Number of cycles run: 2957

Number of cycles run: 50000

Number of cycles run: 5516

Number of cycles run: 477

Number of cycles run: 4883

Number of cycles run: 50000

Number of cycles run: 6323

Number of cycles run: 3000

Number of cycles run: 3626

Number of cycles run: 2419

Number of cycles run: 4230

Number of cycles run: 10059

Number of cycles run: 4873

Number of cycles run: 5487

Number of cycles run: 2079

Number of cycles run: 1528

Number of cycles run: 2057

Number of cycles run: 530

Number of cycles run: 4550

Number of cycles run: 2603

Number of cycles run: 3237

Number of cycles run: 9868

Number of cycles run: 658

Number of cycles run: 2410

Number of cycles run: 15726

Number of cycles run: 3757

Number of cycles run: 747

Number of cycles run: 5505

Number of cycles run: 3355

Number of cycles run: 38077

Number of cycles run: 1272

Number of cycles run: 3276

Number of cycles run: 3385

Number of cycles run: 6199

Number of cycles run: 2583

Number of cycles run: 2661

Number of cycles run: 452

Number of cycles run: 2520

Number of cycles run: 2500

Number of cycles run: 50000

Number of cycles run: 2762

Number of cycles run: 3989

Number of cycles run: 1603

Number of cycles run: 2478

Number of cycles run: 50000

Number of cycles run: 1513

Number of cycles run: 50000

Number of cycles run: 1164

Number of cycles run: 2772

Number of cycles run: 50000

Number of cycles run: 4290

Number of cycles run: 30400

Number of cycles run: 1852

Number of cycles run: 2394

Number of cycles run: 1270

Number of cycles run: 4625

Number of cycles run: 8176

Number of cycles run: 24523

Number of cycles run: 2921

Number of cycles run: 599

Number of cycles run: 3572

Number of cycles run: 3858

Number of cycles run: 6082

Number of cycles run: 2535

Number of cycles run: 4618

Number of cycles run: 2178

Number of cycles run: 2709

Number of cycles run: 1248

Number of cycles run: 2382

Number of cycles run: 12463

Av cycles for attraction strength 0.4 is 9556

standard diviation is 14585.6897566

Testing average cycles for attraction strength 0.4

Number of cycles run: 50000

Number of cycles run: 17876

Number of cycles run: 50000

Number of cycles run: 16963

Number of cycles run: 2301

Number of cycles run: 1406

Number of cycles run: 6225

Number of cycles run: 2746

Number of cycles run: 20537

Number of cycles run: 4563

Number of cycles run: 1203

Number of cycles run: 6674

Number of cycles run: 3820

Number of cycles run: 2066

Number of cycles run: 1676

Number of cycles run: 848

Number of cycles run: 3124

Number of cycles run: 4772

Number of cycles run: 3001

Number of cycles run: 3773

Number of cycles run: 1391

Number of cycles run: 50000

Number of cycles run: 7627

Number of cycles run: 50000

Number of cycles run: 4311

Number of cycles run: 7537

Number of cycles run: 735

Number of cycles run: 1164

Number of cycles run: 7417

Number of cycles run: 7068

Number of cycles run: 2009

Number of cycles run: 2965

Number of cycles run: 7200

Number of cycles run: 3057

Number of cycles run: 611

Number of cycles run: 5534

Number of cycles run: 1715

Number of cycles run: 1873

Number of cycles run: 2804

Number of cycles run: 2902

Number of cycles run: 21688

Number of cycles run: 1451

Number of cycles run: 11975

Number of cycles run: 1104

Number of cycles run: 30536

Number of cycles run: 4524

Number of cycles run: 7088

Number of cycles run: 3342

Number of cycles run: 3687

Number of cycles run: 26344

Number of cycles run: 4395

Number of cycles run: 2130

Number of cycles run: 7750

Number of cycles run: 7073

Number of cycles run: 556

Number of cycles run: 662

Number of cycles run: 3270

Number of cycles run: 2127

Number of cycles run: 1002

Number of cycles run: 1754

Number of cycles run: 40016

Number of cycles run: 3825

Number of cycles run: 1716

Number of cycles run: 2971

Number of cycles run: 2102

Number of cycles run: 5103

Number of cycles run: 1697

Number of cycles run: 3878

Number of cycles run: 5066

Number of cycles run: 1076

Number of cycles run: 579

Number of cycles run: 4925

Number of cycles run: 1116

Number of cycles run: 1342

Number of cycles run: 1973

Number of cycles run: 2344

Number of cycles run: 2191

Number of cycles run: 3374

Number of cycles run: 2886

Number of cycles run: 4237

Number of cycles run: 4849

Number of cycles run: 2814

Number of cycles run: 2634

Number of cycles run: 484

Number of cycles run: 8155

Number of cycles run: 2206

Number of cycles run: 3815

Number of cycles run: 6584

Number of cycles run: 18600

Number of cycles run: 8554

Number of cycles run: 4136

Number of cycles run: 50000

Number of cycles run: 37971

Number of cycles run: 4414

Number of cycles run: 1786

Number of cycles run: 50000

Number of cycles run: 4362

Number of cycles run: 9564

Number of cycles run: 1804

Number of cycles run: 50000

Av cycles for attraction strength 0.4 is 8791

standard diviation is 13419.1294653

Testing average cycles for attraction strength 0.4

Number of cycles run: 3558

Number of cycles run: 9186

Number of cycles run: 3591

Number of cycles run: 4346

Number of cycles run: 50000

Number of cycles run: 2140

Number of cycles run: 3449

Number of cycles run: 3128

Number of cycles run: 50000

Number of cycles run: 2346

Number of cycles run: 10676

Number of cycles run: 1264

Number of cycles run: 2541

Number of cycles run: 3156

Number of cycles run: 399

Number of cycles run: 7118

Number of cycles run: 6718

Number of cycles run: 50000

Number of cycles run: 1212

Number of cycles run: 50000

Number of cycles run: 2578

Number of cycles run: 4148

Number of cycles run: 23727

Number of cycles run: 3633

Number of cycles run: 2037

Number of cycles run: 4672

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 514

Number of cycles run: 21879

Number of cycles run: 50000

Number of cycles run: 7205

Number of cycles run: 20259

Number of cycles run: 14291

Number of cycles run: 4110

Number of cycles run: 50000

Number of cycles run: 3731

Number of cycles run: 2751

Number of cycles run: 10570

Number of cycles run: 5846

Number of cycles run: 2999

Number of cycles run: 2334

Number of cycles run: 1083

Number of cycles run: 5148

Number of cycles run: 3035

Number of cycles run: 46032

Number of cycles run: 8314

Number of cycles run: 1870

Number of cycles run: 4698

Number of cycles run: 3591

Number of cycles run: 3352

Number of cycles run: 50000

Number of cycles run: 3209

Number of cycles run: 1754

Number of cycles run: 3334

Number of cycles run: 864

Number of cycles run: 2890

Number of cycles run: 2954

Number of cycles run: 2625

Number of cycles run: 45938

Number of cycles run: 3776

Number of cycles run: 1732

Number of cycles run: 4146

Number of cycles run: 3395

Number of cycles run: 2923

Number of cycles run: 5561

Number of cycles run: 50000

Number of cycles run: 1239

Number of cycles run: 5316

Number of cycles run: 3401

Number of cycles run: 6191

Number of cycles run: 2970

Number of cycles run: 7953

Number of cycles run: 21712

Number of cycles run: 1240

Number of cycles run: 13554

Number of cycles run: 556

Number of cycles run: 3400

Number of cycles run: 39857

Number of cycles run: 4842

Number of cycles run: 1949

Number of cycles run: 5127

Number of cycles run: 1053

Number of cycles run: 5271

Number of cycles run: 1640

Number of cycles run: 7140

Number of cycles run: 5902

Number of cycles run: 1361

Number of cycles run: 4915

Number of cycles run: 1426

Number of cycles run: 50000

Number of cycles run: 458

Number of cycles run: 411

Number of cycles run: 5776

Number of cycles run: 2653