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\_S5.py =====

Testing average cycles for attraction strength 0.6

Number of cycles run: 50000

Number of cycles run: 900

Number of cycles run: 34219

Number of cycles run: 1660

Number of cycles run: 1948

Number of cycles run: 2929

Number of cycles run: 3623

Number of cycles run: 613

Number of cycles run: 715

Number of cycles run: 4434

Number of cycles run: 3537

Number of cycles run: 677

Number of cycles run: 7010

Number of cycles run: 50000

Number of cycles run: 4777

Number of cycles run: 3671

Number of cycles run: 676

Number of cycles run: 1028

Number of cycles run: 5321

Number of cycles run: 3815

Number of cycles run: 1623

Number of cycles run: 2641

Number of cycles run: 7450

Number of cycles run: 2924

Number of cycles run: 2991

Number of cycles run: 2413

Number of cycles run: 2490

Number of cycles run: 3152

Number of cycles run: 6681

Number of cycles run: 2176

Number of cycles run: 2999

Number of cycles run: 3404

Number of cycles run: 9695

Number of cycles run: 50000

Number of cycles run: 4181

Number of cycles run: 1878

Number of cycles run: 5293

Number of cycles run: 589

Number of cycles run: 466

Number of cycles run: 1420

Number of cycles run: 22339

Number of cycles run: 2248

Number of cycles run: 4036

Number of cycles run: 2433

Number of cycles run: 2547

Number of cycles run: 1491

Number of cycles run: 18631

Number of cycles run: 50000

Number of cycles run: 3532

Number of cycles run: 1330

Number of cycles run: 3584

Number of cycles run: 1289

Number of cycles run: 938

Number of cycles run: 1334

Number of cycles run: 2207

Number of cycles run: 3225

Number of cycles run: 3860

Number of cycles run: 3307

Number of cycles run: 2906

Number of cycles run: 3665

Number of cycles run: 50000

Number of cycles run: 1898

Number of cycles run: 2035

Number of cycles run: 5780

Number of cycles run: 2938

Number of cycles run: 647

Number of cycles run: 478

Number of cycles run: 3373

Number of cycles run: 6684

Number of cycles run: 1912

Number of cycles run: 50000

Number of cycles run: 3648

Number of cycles run: 2191

Number of cycles run: 50000

Number of cycles run: 4008

Number of cycles run: 3098

Number of cycles run: 50000

Number of cycles run: 8152

Number of cycles run: 2235

Number of cycles run: 5160

Number of cycles run: 1678

Number of cycles run: 1480

Number of cycles run: 4009

Number of cycles run: 2715

Number of cycles run: 4627

Number of cycles run: 7325

Number of cycles run: 516

Number of cycles run: 3662

Number of cycles run: 8504

Number of cycles run: 4342

Number of cycles run: 1610

Number of cycles run: 460

Number of cycles run: 50000

Number of cycles run: 3294

Number of cycles run: 7495

Number of cycles run: 1749

Number of cycles run: 3609

Number of cycles run: 4493

Number of cycles run: 447

Number of cycles run: 611

Av cycles for attraction strength 0.6 is 7977

standard diviation is 13984.9818552

Testing average cycles for attraction strength 0.6

Number of cycles run: 1568

Number of cycles run: 4028

Number of cycles run: 4160

Number of cycles run: 491

Number of cycles run: 743

Number of cycles run: 4504

Number of cycles run: 971

Number of cycles run: 1371

Number of cycles run: 508

Number of cycles run: 5331

Number of cycles run: 4812

Number of cycles run: 1433

Number of cycles run: 2516

Number of cycles run: 50000

Number of cycles run: 45009

Number of cycles run: 1012

Number of cycles run: 3257

Number of cycles run: 8400

Number of cycles run: 800

Number of cycles run: 9267

Number of cycles run: 6280

Number of cycles run: 1387

Number of cycles run: 50000

Number of cycles run: 8839

Number of cycles run: 922

Number of cycles run: 3062

Number of cycles run: 1696

Number of cycles run: 25154

Number of cycles run: 3328

Number of cycles run: 2936

Number of cycles run: 3462

Number of cycles run: 2843

Number of cycles run: 9929

Number of cycles run: 3279

Number of cycles run: 1047

Number of cycles run: 2607

Number of cycles run: 4194

Number of cycles run: 4626

Number of cycles run: 6409

Number of cycles run: 2951

Number of cycles run: 3148

Number of cycles run: 34511

Number of cycles run: 483

Number of cycles run: 3253

Number of cycles run: 12659

Number of cycles run: 1077

Number of cycles run: 5075

Number of cycles run: 2806

Number of cycles run: 4028

Number of cycles run: 5590

Number of cycles run: 1679

Number of cycles run: 8479

Number of cycles run: 12723

Number of cycles run: 2351

Number of cycles run: 1518

Number of cycles run: 6221

Number of cycles run: 1556

Number of cycles run: 2933

Number of cycles run: 3701

Number of cycles run: 2116

Number of cycles run: 4088

Number of cycles run: 9085

Number of cycles run: 18039

Number of cycles run: 3745

Number of cycles run: 2943

Number of cycles run: 5207

Number of cycles run: 2041

Number of cycles run: 1362

Number of cycles run: 2004

Number of cycles run: 2056

Number of cycles run: 822

Number of cycles run: 2421

Number of cycles run: 819

Number of cycles run: 18923

Number of cycles run: 1698

Number of cycles run: 10241

Number of cycles run: 11698

Number of cycles run: 2370

Number of cycles run: 50000

Number of cycles run: 43414

Number of cycles run: 3630

Number of cycles run: 6701

Number of cycles run: 1570

Number of cycles run: 3516

Number of cycles run: 18785

Number of cycles run: 6113

Number of cycles run: 10165

Number of cycles run: 4159

Number of cycles run: 1109

Number of cycles run: 521

Number of cycles run: 4313

Number of cycles run: 2099

Number of cycles run: 3846

Number of cycles run: 617

Number of cycles run: 450

Number of cycles run: 2074

Number of cycles run: 965

Number of cycles run: 50000

Number of cycles run: 20103

Number of cycles run: 5964

Av cycles for attraction strength 0.6 is 7507

standard diviation is 11683.59795

Testing average cycles for attraction strength 0.6

Number of cycles run: 3702

Number of cycles run: 577

Number of cycles run: 4053

Number of cycles run: 9875

Number of cycles run: 3439

Number of cycles run: 4278

Number of cycles run: 2679

Number of cycles run: 464

Number of cycles run: 521

Number of cycles run: 5075

Number of cycles run: 589

Number of cycles run: 2371

Number of cycles run: 50000

Number of cycles run: 5774

Number of cycles run: 2888

Number of cycles run: 7065

Number of cycles run: 27713

Number of cycles run: 2012

Number of cycles run: 509

Number of cycles run: 868

Number of cycles run: 3561

Number of cycles run: 50000

Number of cycles run: 3654

Number of cycles run: 8566

Number of cycles run: 50000

Number of cycles run: 3480

Number of cycles run: 50000

Number of cycles run: 2126

Number of cycles run: 1154

Number of cycles run: 4422

Number of cycles run: 36399

Number of cycles run: 4858

Number of cycles run: 1992

Number of cycles run: 6683

Number of cycles run: 2104

Number of cycles run: 2315

Number of cycles run: 1108

Number of cycles run: 1778

Number of cycles run: 50000

Number of cycles run: 579

Number of cycles run: 613

Number of cycles run: 3292

Number of cycles run: 1867

Number of cycles run: 6415

Number of cycles run: 4949

Number of cycles run: 50000

Number of cycles run: 2985

Number of cycles run: 2994

Number of cycles run: 6577

Number of cycles run: 4512

Number of cycles run: 24782

Number of cycles run: 989

Number of cycles run: 706

Number of cycles run: 4233

Number of cycles run: 50000

Number of cycles run: 10210

Number of cycles run: 578

Number of cycles run: 1632

Number of cycles run: 821

Number of cycles run: 469

Number of cycles run: 3782

Number of cycles run: 2444

Number of cycles run: 43208

Number of cycles run: 2864

Number of cycles run: 14692

Number of cycles run: 847

Number of cycles run: 2733

Number of cycles run: 7997

Number of cycles run: 3071

Number of cycles run: 5785

Number of cycles run: 792

Number of cycles run: 7219

Number of cycles run: 4454

Number of cycles run: 2565

Number of cycles run: 3322

Number of cycles run: 6447

Number of cycles run: 928

Number of cycles run: 1087

Number of cycles run: 26894

Number of cycles run: 8931

Number of cycles run: 5634

Number of cycles run: 445

Number of cycles run: 50000

Number of cycles run: 14884

Number of cycles run: 3921

Number of cycles run: 50000

Number of cycles run: 3624

Number of cycles run: 629

Number of cycles run: 605

Number of cycles run: 2269

Number of cycles run: 1812

Number of cycles run: 751

Number of cycles run: 2636

Number of cycles run: 561

Number of cycles run: 2123

Number of cycles run: 3587

Number of cycles run: 8670

Number of cycles run: 6478

Number of cycles run: 13455

Number of cycles run: 1852

Av cycles for attraction strength 0.6 is 9218

standard diviation is 14667.0878255

Testing average cycles for attraction strength 0.6

Number of cycles run: 1749

Number of cycles run: 9655

Number of cycles run: 6713

Number of cycles run: 2177

Number of cycles run: 3348

Number of cycles run: 1712

Number of cycles run: 5303

Number of cycles run: 2063

Number of cycles run: 50000

Number of cycles run: 1717

Number of cycles run: 4657

Number of cycles run: 4950

Number of cycles run: 3457

Number of cycles run: 4745

Number of cycles run: 549

Number of cycles run: 50000

Number of cycles run: 2732

Number of cycles run: 1501

Number of cycles run: 3740

Number of cycles run: 9536

Number of cycles run: 4151

Number of cycles run: 50000

Number of cycles run: 6176

Number of cycles run: 5670

Number of cycles run: 4643

Number of cycles run: 551

Number of cycles run: 1298

Number of cycles run: 1196

Number of cycles run: 1773

Number of cycles run: 6810

Number of cycles run: 613

Number of cycles run: 1329

Number of cycles run: 6203

Number of cycles run: 50000

Number of cycles run: 2068

Number of cycles run: 29620

Number of cycles run: 780

Number of cycles run: 670

Number of cycles run: 50000

Number of cycles run: 2720

Number of cycles run: 3779

Number of cycles run: 3989

Number of cycles run: 2173

Number of cycles run: 26392

Number of cycles run: 4990

Number of cycles run: 50000

Number of cycles run: 1109

Number of cycles run: 1674

Number of cycles run: 16558

Number of cycles run: 13068

Number of cycles run: 5825

Number of cycles run: 5543

Number of cycles run: 3168

Number of cycles run: 641

Number of cycles run: 3717

Number of cycles run: 3445

Number of cycles run: 11078

Number of cycles run: 3642

Number of cycles run: 3388

Number of cycles run: 2746

Number of cycles run: 6140

Number of cycles run: 1865

Number of cycles run: 2655

Number of cycles run: 5827

Number of cycles run: 4224

Number of cycles run: 2012

Number of cycles run: 3376

Number of cycles run: 2209

Number of cycles run: 1309

Number of cycles run: 6531

Number of cycles run: 592

Number of cycles run: 2081

Number of cycles run: 3630

Number of cycles run: 860

Number of cycles run: 3403

Number of cycles run: 3253

Number of cycles run: 50000

Number of cycles run: 2569

Number of cycles run: 2272

Number of cycles run: 1874

Number of cycles run: 3800

Number of cycles run: 837

Number of cycles run: 6091

Number of cycles run: 1108

Number of cycles run: 1741

Number of cycles run: 50000

Number of cycles run: 3617

Number of cycles run: 2944

Number of cycles run: 22299

Number of cycles run: 3610

Number of cycles run: 682

Number of cycles run: 2569

Number of cycles run: 7537

Number of cycles run: 609

Number of cycles run: 2311

Number of cycles run: 3439

Number of cycles run: 1264

Number of cycles run: 2499

Number of cycles run: 11762

Number of cycles run: 2461

Av cycles for attraction strength 0.6 is 8013

standard diviation is 13320.4843678

Testing average cycles for attraction strength 0.6

Number of cycles run: 2498

Number of cycles run: 1115

Number of cycles run: 3429

Number of cycles run: 3654

Number of cycles run: 6397

Number of cycles run: 50000

Number of cycles run: 4504

Number of cycles run: 5207

Number of cycles run: 3171

Number of cycles run: 6098

Number of cycles run: 50000

Number of cycles run: 1945

Number of cycles run: 50000

Number of cycles run: 7363

Number of cycles run: 12035

Number of cycles run: 784

Number of cycles run: 3393

Number of cycles run: 3484

Number of cycles run: 5532

Number of cycles run: 4070

Number of cycles run: 584

Number of cycles run: 1755

Number of cycles run: 2772

Number of cycles run: 756

Number of cycles run: 4846

Number of cycles run: 2483

Number of cycles run: 29854

Number of cycles run: 2533

Number of cycles run: 497

Number of cycles run: 1651

Number of cycles run: 2976

Number of cycles run: 2168

Number of cycles run: 11336

Number of cycles run: 703

Number of cycles run: 4669

Number of cycles run: 5745

Number of cycles run: 789

Number of cycles run: 10333

Number of cycles run: 3912

Number of cycles run: 3022

Number of cycles run: 1413

Number of cycles run: 1513

Number of cycles run: 1320

Number of cycles run: 3038

Number of cycles run: 1166

Number of cycles run: 1609

Number of cycles run: 1944

Number of cycles run: 3377

Number of cycles run: 4785

Number of cycles run: 456

Number of cycles run: 32303

Number of cycles run: 3606

Number of cycles run: 5664

Number of cycles run: 24416

Number of cycles run: 11293

Number of cycles run: 7361

Number of cycles run: 4765

Number of cycles run: 4382

Number of cycles run: 18833

Number of cycles run: 1920

Number of cycles run: 6083

Number of cycles run: 50000

Number of cycles run: 2859

Number of cycles run: 1968

Number of cycles run: 2680

Number of cycles run: 4838

Number of cycles run: 697

Number of cycles run: 1127

Number of cycles run: 3389

Number of cycles run: 3643

Number of cycles run: 50000

Number of cycles run: 9800

Number of cycles run: 751

Number of cycles run: 859

Number of cycles run: 50000

Number of cycles run: 1223

Number of cycles run: 50000

Number of cycles run: 2782

Number of cycles run: 5009

Number of cycles run: 5524

Number of cycles run: 1332

Number of cycles run: 4263

Number of cycles run: 2974

Number of cycles run: 7594

Number of cycles run: 9880

Number of cycles run: 768

Number of cycles run: 50000

Number of cycles run: 3116

Number of cycles run: 3540

Number of cycles run: 2531

Number of cycles run: 5871

Number of cycles run: 36054

Number of cycles run: 8152

Number of cycles run: 16426

Number of cycles run: 947

Number of cycles run: 50000

Number of cycles run: 2188

Number of cycles run: 1103

Number of cycles run: 50000

Number of cycles run: 728

Av cycles for attraction strength 0.6 is 9639

standard diviation is 14875.2238728

Testing average cycles for attraction strength 0.6

Number of cycles run: 45993

Number of cycles run: 4417

Number of cycles run: 16358

Number of cycles run: 16959

Number of cycles run: 1714

Number of cycles run: 6981

Number of cycles run: 3098

Number of cycles run: 1574

Number of cycles run: 1861

Number of cycles run: 10298

Number of cycles run: 3068

Number of cycles run: 5157

Number of cycles run: 10279

Number of cycles run: 2578

Number of cycles run: 2841

Number of cycles run: 4855

Number of cycles run: 4033

Number of cycles run: 3921

Number of cycles run: 8815

Number of cycles run: 1939

Number of cycles run: 746

Number of cycles run: 6885

Number of cycles run: 50000

Number of cycles run: 5592

Number of cycles run: 2596

Number of cycles run: 2354

Number of cycles run: 2561

Number of cycles run: 5943

Number of cycles run: 1285

Number of cycles run: 1127

Number of cycles run: 5794

Number of cycles run: 1810

Number of cycles run: 1830

Number of cycles run: 50000

Number of cycles run: 4542

Number of cycles run: 22288

Number of cycles run: 770

Number of cycles run: 5173

Number of cycles run: 4768

Number of cycles run: 9565

Number of cycles run: 6137

Number of cycles run: 2724

Number of cycles run: 1638

Number of cycles run: 7438

Number of cycles run: 5665

Number of cycles run: 3704

Number of cycles run: 4166

Number of cycles run: 13032

Number of cycles run: 50000

Number of cycles run: 5734

Number of cycles run: 1484

Number of cycles run: 50000

Number of cycles run: 5698

Number of cycles run: 7127

Number of cycles run: 5771

Number of cycles run: 5992

Number of cycles run: 50000

Number of cycles run: 4154

Number of cycles run: 25344

Number of cycles run: 494

Number of cycles run: 11110

Number of cycles run: 50000

Number of cycles run: 1721

Number of cycles run: 1022

Number of cycles run: 3248

Number of cycles run: 4855

Number of cycles run: 2604

Number of cycles run: 5001

Number of cycles run: 11789

Number of cycles run: 593

Number of cycles run: 7331

Number of cycles run: 2210

Number of cycles run: 904

Number of cycles run: 11067

Number of cycles run: 1147

Number of cycles run: 3674

Number of cycles run: 2667

Number of cycles run: 3220

Number of cycles run: 8486

Number of cycles run: 3265

Number of cycles run: 4385

Number of cycles run: 563

Number of cycles run: 3892

Number of cycles run: 863

Number of cycles run: 6536

Number of cycles run: 4262

Number of cycles run: 1701

Number of cycles run: 1590

Number of cycles run: 3783

Number of cycles run: 5274

Number of cycles run: 22083

Number of cycles run: 525

Number of cycles run: 974

Number of cycles run: 5112

Number of cycles run: 5204

Number of cycles run: 7941

Number of cycles run: 1182

Number of cycles run: 649

Number of cycles run: 4456

Number of cycles run: 4515

Av cycles for attraction strength 0.6 is 8200

standard diviation is 12255.9999725