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\_R2.py =====

Testing average cycles for repulsion strength 2

Number of cycles run: 4197

Number of cycles run: 3483

Number of cycles run: 1024

Number of cycles run: 1228

Number of cycles run: 8092

Number of cycles run: 13067

Number of cycles run: 18929

Number of cycles run: 3383

Number of cycles run: 2720

Number of cycles run: 3920

Number of cycles run: 668

Number of cycles run: 652

Number of cycles run: 567

Number of cycles run: 6199

Number of cycles run: 3584

Number of cycles run: 3062

Number of cycles run: 7982

Number of cycles run: 1674

Number of cycles run: 6142

Number of cycles run: 3955

Number of cycles run: 4679

Number of cycles run: 636

Number of cycles run: 4708

Number of cycles run: 50000

Number of cycles run: 1686

Number of cycles run: 621

Number of cycles run: 3417

Number of cycles run: 3798

Number of cycles run: 9191

Number of cycles run: 2808

Number of cycles run: 33980

Number of cycles run: 50000

Number of cycles run: 1752

Number of cycles run: 2927

Number of cycles run: 2411

Number of cycles run: 499

Number of cycles run: 6113

Number of cycles run: 1705

Number of cycles run: 1638

Number of cycles run: 456

Number of cycles run: 3574

Number of cycles run: 614

Number of cycles run: 5547

Number of cycles run: 21305

Number of cycles run: 2875

Number of cycles run: 679

Number of cycles run: 12803

Number of cycles run: 809

Number of cycles run: 1511

Number of cycles run: 5308

Number of cycles run: 20697

Number of cycles run: 12844

Number of cycles run: 4016

Number of cycles run: 2793

Number of cycles run: 7753

Number of cycles run: 2752

Number of cycles run: 792

Number of cycles run: 1319

Number of cycles run: 463

Number of cycles run: 2039

Number of cycles run: 3359

Number of cycles run: 2507

Number of cycles run: 2020

Number of cycles run: 2754

Number of cycles run: 8672

Number of cycles run: 570

Number of cycles run: 1719

Number of cycles run: 6170

Number of cycles run: 2601

Number of cycles run: 8755

Number of cycles run: 3111

Number of cycles run: 5496

Number of cycles run: 4897

Number of cycles run: 3880

Number of cycles run: 12859

Number of cycles run: 2834

Number of cycles run: 6027

Number of cycles run: 1598

Number of cycles run: 1014

Number of cycles run: 33969

Number of cycles run: 3505

Number of cycles run: 3890

Number of cycles run: 3097

Number of cycles run: 1215

Number of cycles run: 14472

Number of cycles run: 1357

Number of cycles run: 576

Number of cycles run: 2784

Number of cycles run: 2834

Number of cycles run: 2721

Number of cycles run: 427

Number of cycles run: 17042

Number of cycles run: 4029

Number of cycles run: 4591

Number of cycles run: 1192

Number of cycles run: 6634

Number of cycles run: 42741

Number of cycles run: 19614

Number of cycles run: 7062

Number of cycles run: 3707

Av cycles for repulsion strength 2 is 6463

standard diviation is 9554.25100953

Testing average cycles for repulsion strength 2

Number of cycles run: 9070

Number of cycles run: 2872

Number of cycles run: 3298

Number of cycles run: 5242

Number of cycles run: 2067

Number of cycles run: 5496

Number of cycles run: 4555

Number of cycles run: 6521

Number of cycles run: 649

Number of cycles run: 1632

Number of cycles run: 3188

Number of cycles run: 1727

Number of cycles run: 5282

Number of cycles run: 1426

Number of cycles run: 3480

Number of cycles run: 771

Number of cycles run: 4434

Number of cycles run: 5136

Number of cycles run: 1082

Number of cycles run: 2479

Number of cycles run: 500

Number of cycles run: 4051

Number of cycles run: 686

Number of cycles run: 2567

Number of cycles run: 50000

Number of cycles run: 6612

Number of cycles run: 2100

Number of cycles run: 1462

Number of cycles run: 2923

Number of cycles run: 2204

Number of cycles run: 3097

Number of cycles run: 6407

Number of cycles run: 1928

Number of cycles run: 577

Number of cycles run: 3279

Number of cycles run: 2073

Number of cycles run: 2334

Number of cycles run: 2596

Number of cycles run: 2592

Number of cycles run: 1033

Number of cycles run: 50000

Number of cycles run: 9319

Number of cycles run: 3878

Number of cycles run: 2364

Number of cycles run: 3915

Number of cycles run: 3670

Number of cycles run: 11177

Number of cycles run: 4393

Number of cycles run: 11881

Number of cycles run: 548

Number of cycles run: 6869

Number of cycles run: 658

Number of cycles run: 2903

Number of cycles run: 5886

Number of cycles run: 3296

Number of cycles run: 634

Number of cycles run: 3182

Number of cycles run: 3213

Number of cycles run: 2342

Number of cycles run: 6029

Number of cycles run: 3304

Number of cycles run: 843

Number of cycles run: 1114

Number of cycles run: 2899

Number of cycles run: 1602

Number of cycles run: 6037

Number of cycles run: 24576

Number of cycles run: 3347

Number of cycles run: 4818

Number of cycles run: 5718

Number of cycles run: 525

Number of cycles run: 1478

Number of cycles run: 5383

Number of cycles run: 29696

Number of cycles run: 1424

Number of cycles run: 4243

Number of cycles run: 3199

Number of cycles run: 581

Number of cycles run: 1827

Number of cycles run: 2312

Number of cycles run: 764

Number of cycles run: 4047

Number of cycles run: 19169

Number of cycles run: 50000

Number of cycles run: 2568

Number of cycles run: 7282

Number of cycles run: 26128

Number of cycles run: 1253

Number of cycles run: 3227

Number of cycles run: 1874

Number of cycles run: 2616

Number of cycles run: 1789

Number of cycles run: 6254

Number of cycles run: 626

Number of cycles run: 437

Number of cycles run: 572

Number of cycles run: 2310

Number of cycles run: 2930

Number of cycles run: 2136

Number of cycles run: 50000

Av cycles for repulsion strength 2 is 5964

standard diviation is 10268.5120117

Testing average cycles for repulsion strength 2

Number of cycles run: 1046

Number of cycles run: 1897

Number of cycles run: 1872

Number of cycles run: 5046

Number of cycles run: 3701

Number of cycles run: 7311

Number of cycles run: 4396

Number of cycles run: 6510

Number of cycles run: 2017

Number of cycles run: 5422

Number of cycles run: 6245

Number of cycles run: 5180

Number of cycles run: 3364

Number of cycles run: 11677

Number of cycles run: 3584

Number of cycles run: 12943

Number of cycles run: 2190

Number of cycles run: 2891

Number of cycles run: 7253

Number of cycles run: 5444

Number of cycles run: 538

Number of cycles run: 3229

Number of cycles run: 7966

Number of cycles run: 2184

Number of cycles run: 2544

Number of cycles run: 3805

Number of cycles run: 1819

Number of cycles run: 6202

Number of cycles run: 20718

Number of cycles run: 3083

Number of cycles run: 3072

Number of cycles run: 717

Number of cycles run: 653

Number of cycles run: 2670

Number of cycles run: 3153

Number of cycles run: 675

Number of cycles run: 6540

Number of cycles run: 2794

Number of cycles run: 4338

Number of cycles run: 5324

Number of cycles run: 2392

Number of cycles run: 3895

Number of cycles run: 50000

Number of cycles run: 5310

Number of cycles run: 4239

Number of cycles run: 1609

Number of cycles run: 4521

Number of cycles run: 4341

Number of cycles run: 5147

Number of cycles run: 5644

Number of cycles run: 6707

Number of cycles run: 6005

Number of cycles run: 459

Number of cycles run: 2846

Number of cycles run: 5929

Number of cycles run: 17132

Number of cycles run: 4328

Number of cycles run: 7707

Number of cycles run: 2456

Number of cycles run: 16007

Number of cycles run: 2629

Number of cycles run: 2380

Number of cycles run: 50000

Number of cycles run: 13678

Number of cycles run: 444

Number of cycles run: 2456

Number of cycles run: 1886

Number of cycles run: 3682

Number of cycles run: 1606

Number of cycles run: 6795

Number of cycles run: 597

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2930

Number of cycles run: 19719

Number of cycles run: 1328

Number of cycles run: 3823

Number of cycles run: 3521

Number of cycles run: 2776

Number of cycles run: 50000

Number of cycles run: 2205

Number of cycles run: 3198

Number of cycles run: 50000

Number of cycles run: 1916

Number of cycles run: 1436

Number of cycles run: 2668

Number of cycles run: 1298

Number of cycles run: 3580

Number of cycles run: 2765

Number of cycles run: 3412

Number of cycles run: 3331

Number of cycles run: 25920

Number of cycles run: 4877

Number of cycles run: 19367

Number of cycles run: 1308

Number of cycles run: 4052

Number of cycles run: 2248

Number of cycles run: 3171

Number of cycles run: 5099

Av cycles for repulsion strength 2 is 8007

standard diviation is 12436.9730137

Testing average cycles for repulsion strength 2

Number of cycles run: 2429

Number of cycles run: 2404

Number of cycles run: 21638

Number of cycles run: 10635

Number of cycles run: 4411

Number of cycles run: 1771

Number of cycles run: 2222

Number of cycles run: 926

Number of cycles run: 2121

Number of cycles run: 14424

Number of cycles run: 7913

Number of cycles run: 851

Number of cycles run: 3860

Number of cycles run: 15084

Number of cycles run: 3223

Number of cycles run: 4843

Number of cycles run: 3127

Number of cycles run: 50000

Number of cycles run: 451

Number of cycles run: 6469

Number of cycles run: 2759

Number of cycles run: 8845

Number of cycles run: 3752

Number of cycles run: 4403

Number of cycles run: 4317

Number of cycles run: 4355

Number of cycles run: 50000

Number of cycles run: 1316

Number of cycles run: 5748

Number of cycles run: 1103

Number of cycles run: 672

Number of cycles run: 7513

Number of cycles run: 4522

Number of cycles run: 23288

Number of cycles run: 4519

Number of cycles run: 11875

Number of cycles run: 20797

Number of cycles run: 3302

Number of cycles run: 632

Number of cycles run: 4878

Number of cycles run: 1495

Number of cycles run: 2089

Number of cycles run: 822

Number of cycles run: 7398

Number of cycles run: 6607

Number of cycles run: 4546

Number of cycles run: 621

Number of cycles run: 1694

Number of cycles run: 2093

Number of cycles run: 439

Number of cycles run: 3404

Number of cycles run: 5803

Number of cycles run: 460

Number of cycles run: 1942

Number of cycles run: 50000

Number of cycles run: 2790

Number of cycles run: 2195

Number of cycles run: 624

Number of cycles run: 3222

Number of cycles run: 2710

Number of cycles run: 1170

Number of cycles run: 2938

Number of cycles run: 3407

Number of cycles run: 5236

Number of cycles run: 3355

Number of cycles run: 1619

Number of cycles run: 1744

Number of cycles run: 6459

Number of cycles run: 2614

Number of cycles run: 1628

Number of cycles run: 2392

Number of cycles run: 8441

Number of cycles run: 50000

Number of cycles run: 6286

Number of cycles run: 3659

Number of cycles run: 3522

Number of cycles run: 10896

Number of cycles run: 2187

Number of cycles run: 1435

Number of cycles run: 3708

Number of cycles run: 2205

Number of cycles run: 2779

Number of cycles run: 3399

Number of cycles run: 4220

Number of cycles run: 15541

Number of cycles run: 10710

Number of cycles run: 32904

Number of cycles run: 2382

Number of cycles run: 8687

Number of cycles run: 853

Number of cycles run: 1654

Number of cycles run: 6912

Number of cycles run: 427

Number of cycles run: 2955

Number of cycles run: 5478

Number of cycles run: 4196

Number of cycles run: 825

Number of cycles run: 1925

Number of cycles run: 3704

Number of cycles run: 799

Av cycles for repulsion strength 2 is 6636

standard diviation is 10330.2283961

Testing average cycles for repulsion strength 2

Number of cycles run: 14836

Number of cycles run: 1045

Number of cycles run: 1845

Number of cycles run: 2958

Number of cycles run: 3455

Number of cycles run: 50000

Number of cycles run: 2959

Number of cycles run: 2456

Number of cycles run: 554

Number of cycles run: 637

Number of cycles run: 1225

Number of cycles run: 5083

Number of cycles run: 2865

Number of cycles run: 626

Number of cycles run: 639

Number of cycles run: 7940

Number of cycles run: 1021

Number of cycles run: 1130

Number of cycles run: 1895

Number of cycles run: 6246

Number of cycles run: 4124

Number of cycles run: 893

Number of cycles run: 4907

Number of cycles run: 6315

Number of cycles run: 3293

Number of cycles run: 1046

Number of cycles run: 10942

Number of cycles run: 479

Number of cycles run: 7786

Number of cycles run: 4211

Number of cycles run: 7681

Number of cycles run: 2019

Number of cycles run: 1751

Number of cycles run: 2395

Number of cycles run: 2442

Number of cycles run: 2382

Number of cycles run: 16549

Number of cycles run: 17835

Number of cycles run: 50000

Number of cycles run: 25709

Number of cycles run: 2826

Number of cycles run: 7262

Number of cycles run: 2816

Number of cycles run: 5596

Number of cycles run: 2436

Number of cycles run: 2698

Number of cycles run: 3650

Number of cycles run: 50000

Number of cycles run: 472

Number of cycles run: 1774

Number of cycles run: 1431

Number of cycles run: 2246

Number of cycles run: 3701

Number of cycles run: 12889

Number of cycles run: 3030

Number of cycles run: 7298

Number of cycles run: 2357

Number of cycles run: 2671

Number of cycles run: 2699

Number of cycles run: 601

Number of cycles run: 2410

Number of cycles run: 6785

Number of cycles run: 4034

Number of cycles run: 508

Number of cycles run: 3318

Number of cycles run: 5369

Number of cycles run: 2478

Number of cycles run: 1882

Number of cycles run: 8584

Number of cycles run: 2361

Number of cycles run: 2063

Number of cycles run: 3399

Number of cycles run: 3202

Number of cycles run: 3060

Number of cycles run: 2149

Number of cycles run: 516

Number of cycles run: 4148

Number of cycles run: 3685

Number of cycles run: 921

Number of cycles run: 2582

Number of cycles run: 6236

Number of cycles run: 3595

Number of cycles run: 3039

Number of cycles run: 6620

Number of cycles run: 2067

Number of cycles run: 3170

Number of cycles run: 1202

Number of cycles run: 1110

Number of cycles run: 5938

Number of cycles run: 9322

Number of cycles run: 1756

Number of cycles run: 4664

Number of cycles run: 2141

Number of cycles run: 3923

Number of cycles run: 542

Number of cycles run: 2702

Number of cycles run: 1501

Number of cycles run: 3535

Number of cycles run: 792

Number of cycles run: 13299

Av cycles for repulsion strength 2 is 5412

standard diviation is 8858.13412801

Testing average cycles for repulsion strength 2

Number of cycles run: 11929

Number of cycles run: 607

Number of cycles run: 1007

Number of cycles run: 687

Number of cycles run: 7479

Number of cycles run: 1458

Number of cycles run: 11201

Number of cycles run: 1701

Number of cycles run: 3517

Number of cycles run: 4044

Number of cycles run: 2700

Number of cycles run: 28794

Number of cycles run: 2722

Number of cycles run: 50000

Number of cycles run: 4874

Number of cycles run: 1779

Number of cycles run: 2513

Number of cycles run: 7507

Number of cycles run: 857

Number of cycles run: 4583

Number of cycles run: 1382

Number of cycles run: 792

Number of cycles run: 1644

Number of cycles run: 1257

Number of cycles run: 10832

Number of cycles run: 863

Number of cycles run: 15029

Number of cycles run: 6198

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\_R1.py =====

Testing average cycles for repulsion strength 2

Number of cycles run: 995

Number of cycles run: 25792

Number of cycles run: 462

Number of cycles run: 50000

Number of cycles run: 2978

Number of cycles run: 50000

Number of cycles run: 643

Number of cycles run: 50000

Number of cycles run: 1521

Number of cycles run: 6631

Number of cycles run: 2707

Number of cycles run: 26803

Number of cycles run: 6030

Number of cycles run: 3010

Number of cycles run: 5531

Number of cycles run: 10724

Number of cycles run: 11303

Number of cycles run: 1319

Number of cycles run: 525

Number of cycles run: 3424

Number of cycles run: 634

Number of cycles run: 2493

Number of cycles run: 24657

Number of cycles run: 3972

Number of cycles run: 2770

Number of cycles run: 4084

Number of cycles run: 10976

Number of cycles run: 3290

Number of cycles run: 2436

Number of cycles run: 3022

Number of cycles run: 11169

Number of cycles run: 731

Number of cycles run: 5319

Number of cycles run: 4889

Number of cycles run: 3851

Number of cycles run: 50000

Number of cycles run: 3650

Number of cycles run: 579

Number of cycles run: 6559

Number of cycles run: 7516

Number of cycles run: 2307

Number of cycles run: 1957

Number of cycles run: 2665

Number of cycles run: 4806

Number of cycles run: 17102

Number of cycles run: 4608

Number of cycles run: 32611

Number of cycles run: 608

Number of cycles run: 1685

Number of cycles run: 6516

Number of cycles run: 5851

Number of cycles run: 4130

Number of cycles run: 5016

Number of cycles run: 2773

Number of cycles run: 4531

Number of cycles run: 1558

Number of cycles run: 50000

Number of cycles run: 1850

Number of cycles run: 4177

Number of cycles run: 2443

Number of cycles run: 843

Number of cycles run: 444

Number of cycles run: 3733

Number of cycles run: 15704

Number of cycles run: 3974

Number of cycles run: 608

Number of cycles run: 3129

Number of cycles run: 1840

Number of cycles run: 8979

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 9867

Number of cycles run: 662

Number of cycles run: 4744

Number of cycles run: 1776

Number of cycles run: 762

Number of cycles run: 2784

Number of cycles run: 50000

Number of cycles run: 4569

Number of cycles run: 1343

Number of cycles run: 5016

Number of cycles run: 6419

Number of cycles run: 4533

Number of cycles run: 1517

Number of cycles run: 3802

Number of cycles run: 641

Number of cycles run: 5780

Number of cycles run: 50000

Number of cycles run: 4539

Number of cycles run: 3371

Number of cycles run: 684

Number of cycles run: 5844

Number of cycles run: 2024

Number of cycles run: 50000

Number of cycles run: 3057

Number of cycles run: 50000

Number of cycles run: 3487

Number of cycles run: 2353

Number of cycles run: 881

Number of cycles run: 26823

Av cycles for repulsion strength 2 is 10167

standard diviation is 15284.1984239

Testing average cycles for repulsion strength 2

Number of cycles run: 6584

Number of cycles run: 1561

Number of cycles run: 6175

Number of cycles run: 4347

Number of cycles run: 6613

Number of cycles run: 5176

Number of cycles run: 444

Number of cycles run: 6370

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2296

Number of cycles run: 50000

Number of cycles run: 2466

Number of cycles run: 2947

Number of cycles run: 13804

Number of cycles run: 6095

Number of cycles run: 1093

Number of cycles run: 2198

Number of cycles run: 459

Number of cycles run: 2837

Number of cycles run: 12570

Number of cycles run: 2313

Number of cycles run: 3146

Number of cycles run: 12371

Number of cycles run: 3568

Number of cycles run: 14429

Number of cycles run: 1474

Number of cycles run: 2130

Number of cycles run: 10977

Number of cycles run: 1841

Number of cycles run: 50000

Number of cycles run: 35234

Number of cycles run: 2849

Number of cycles run: 2455

Number of cycles run: 7490

Number of cycles run: 2087

Number of cycles run: 6863

Number of cycles run: 1631

Number of cycles run: 1351

Number of cycles run: 8138

Number of cycles run: 1711

Number of cycles run: 1427

Number of cycles run: 8345

Number of cycles run: 911

Number of cycles run: 20214

Number of cycles run: 2919

Number of cycles run: 1662

Number of cycles run: 1953

Number of cycles run: 2610

Number of cycles run: 30346

Number of cycles run: 50000

Number of cycles run: 5470

Number of cycles run: 50000

Number of cycles run: 3416

Number of cycles run: 5289

Number of cycles run: 3948

Number of cycles run: 36945

Number of cycles run: 50000

Number of cycles run: 3002

Number of cycles run: 6830

Number of cycles run: 2179

Number of cycles run: 8523

Number of cycles run: 2472

Number of cycles run: 4203

Number of cycles run: 50000

Number of cycles run: 30487

Number of cycles run: 1008

Number of cycles run: 2944

Number of cycles run: 3563

Number of cycles run: 665

Number of cycles run: 2640

Number of cycles run: 39366

Number of cycles run: 3300

Number of cycles run: 5732

Number of cycles run: 11089

Number of cycles run: 50000

Number of cycles run: 2178

Number of cycles run: 3170

Number of cycles run: 663

Number of cycles run: 3293

Number of cycles run: 4899

Number of cycles run: 50000

Number of cycles run: 3834

Number of cycles run: 1826

Number of cycles run: 3598

Number of cycles run: 5142

Number of cycles run: 6504

Number of cycles run: 3886

Number of cycles run: 18412

Number of cycles run: 6906

Number of cycles run: 9360

Number of cycles run: 4796

Number of cycles run: 8772

Number of cycles run: 1343

Number of cycles run: 14062

Number of cycles run: 542

Number of cycles run: 1055

Number of cycles run: 15745

Number of cycles run: 2104

Number of cycles run: 3636

Av cycles for repulsion strength 2 is 10852

standard diviation is 15150.6123908

Testing average cycles for repulsion strength 2

Number of cycles run: 2940

Number of cycles run: 509

Number of cycles run: 8368

Number of cycles run: 50000

Number of cycles run: 5374

Number of cycles run: 845

Number of cycles run: 888

Number of cycles run: 5771

Number of cycles run: 2552

Number of cycles run: 796

Number of cycles run: 1364

Number of cycles run: 672

Number of cycles run: 440

Number of cycles run: 5549

Number of cycles run: 990

Number of cycles run: 816

Number of cycles run: 14494

Number of cycles run: 5575

Number of cycles run: 5188

Number of cycles run: 623

Number of cycles run: 492

Number of cycles run: 7014

Number of cycles run: 3317

Number of cycles run: 2658

Number of cycles run: 2949

Number of cycles run: 6449

Number of cycles run: 698

Number of cycles run: 9250

Number of cycles run: 2391

Number of cycles run: 7568

Number of cycles run: 4049

Number of cycles run: 3889

Number of cycles run: 605

Number of cycles run: 2672

Number of cycles run: 32181

Number of cycles run: 3564

Number of cycles run: 1027

Number of cycles run: 2686

Number of cycles run: 4251

Number of cycles run: 1659

Number of cycles run: 3902

Number of cycles run: 4635

Number of cycles run: 3789

Number of cycles run: 1338

Number of cycles run: 654

Number of cycles run: 4555

Number of cycles run: 1227

Number of cycles run: 16991

Number of cycles run: 3047

Number of cycles run: 592

Number of cycles run: 2036

Number of cycles run: 2680

Number of cycles run: 1255

Number of cycles run: 791

Number of cycles run: 492

Number of cycles run: 5259

Number of cycles run: 5398

Number of cycles run: 8856

Number of cycles run: 6317

Number of cycles run: 4314

Number of cycles run: 5166

Number of cycles run: 895

Number of cycles run: 2592

Number of cycles run: 4190

Number of cycles run: 3153

Number of cycles run: 50000

Number of cycles run: 3257

Number of cycles run: 2240

Number of cycles run: 2533

Number of cycles run: 2160

Number of cycles run: 1195

Number of cycles run: 5466

Number of cycles run: 952

Number of cycles run: 3066

Number of cycles run: 4459

Number of cycles run: 9113

Number of cycles run: 8189

Number of cycles run: 2465

Number of cycles run: 2174

Number of cycles run: 1761

Number of cycles run: 4665

Number of cycles run: 3513

Number of cycles run: 2248

Number of cycles run: 1234

Number of cycles run: 2173

Number of cycles run: 675

Number of cycles run: 467

Number of cycles run: 1886

Number of cycles run: 2017

Number of cycles run: 6812

Number of cycles run: 2031

Number of cycles run: 4849

Number of cycles run: 3885

Number of cycles run: 673

Number of cycles run: 5079

Number of cycles run: 4547

Number of cycles run: 5456

Number of cycles run: 8968

Number of cycles run: 489

Number of cycles run: 8861

Av cycles for repulsion strength 2 is 4768

standard diviation is 7678.51648837

Testing average cycles for repulsion strength 2

Number of cycles run: 3483

Number of cycles run: 1681

Number of cycles run: 4410

Number of cycles run: 2995

Number of cycles run: 50000

Number of cycles run: 517

Number of cycles run: 7064

Number of cycles run: 5185

Number of cycles run: 521

Number of cycles run: 2408

Number of cycles run: 1322

Number of cycles run: 8754

Number of cycles run: 8708

Number of cycles run: 1801

Number of cycles run: 10198

Number of cycles run: 20338

Number of cycles run: 1134

Number of cycles run: 9950

Number of cycles run: 4357

Number of cycles run: 2927

Number of cycles run: 468

Number of cycles run: 461

Number of cycles run: 1816

Number of cycles run: 1971

Number of cycles run: 2397

Number of cycles run: 50000

Number of cycles run: 685

Number of cycles run: 4115

Number of cycles run: 50000

Number of cycles run: 3012

Number of cycles run: 4260

Number of cycles run: 1066

Number of cycles run: 3802

Number of cycles run: 2903

Number of cycles run: 4010

Number of cycles run: 2671

Number of cycles run: 3968

Number of cycles run: 1935

Number of cycles run: 2285

Number of cycles run: 5640

Number of cycles run: 50000

Number of cycles run: 435

Number of cycles run: 4636

Number of cycles run: 2426

Number of cycles run: 30221

Number of cycles run: 2045

Number of cycles run: 8339

Number of cycles run: 1087

Number of cycles run: 13313

Number of cycles run: 3083

Number of cycles run: 915

Number of cycles run: 8584

Number of cycles run: 1766

Number of cycles run: 2152

Number of cycles run: 668

Number of cycles run: 5747

Number of cycles run: 8014

Number of cycles run: 3175

Number of cycles run: 10446

Number of cycles run: 21567

Number of cycles run: 2421

Number of cycles run: 4740

Number of cycles run: 740

Number of cycles run: 7779

Number of cycles run: 5092

Number of cycles run: 823

Number of cycles run: 3024

Number of cycles run: 22021

Number of cycles run: 3573

Number of cycles run: 11691

Number of cycles run: 50000

Number of cycles run: 3568

Number of cycles run: 6165

Number of cycles run: 4454

Number of cycles run: 24256

Number of cycles run: 2370

Number of cycles run: 3092

Number of cycles run: 5340

Number of cycles run: 668

Number of cycles run: 2672

Number of cycles run: 7105

Number of cycles run: 2446

Number of cycles run: 50000

Number of cycles run: 1255

Number of cycles run: 50000

Number of cycles run: 2775

Number of cycles run: 9203

Number of cycles run: 2939

Number of cycles run: 641

Number of cycles run: 28452

Number of cycles run: 2106

Number of cycles run: 1987

Number of cycles run: 24692

Number of cycles run: 3201

Number of cycles run: 4324

Number of cycles run: 1995

Number of cycles run: 24587

Number of cycles run: 4874

Number of cycles run: 3063

Number of cycles run: 4172

Av cycles for repulsion strength 2 is 8681

standard diviation is 13013.607386

Testing average cycles for repulsion strength 2

Number of cycles run: 4984

Number of cycles run: 3100

Number of cycles run: 2043

Number of cycles run: 2556

Number of cycles run: 4265

Number of cycles run: 459

Number of cycles run: 3871

Number of cycles run: 1532

Number of cycles run: 5274

Number of cycles run: 776

Number of cycles run: 50000

Number of cycles run: 5396

Number of cycles run: 3840

Number of cycles run: 474

Number of cycles run: 1232

Number of cycles run: 50000

Number of cycles run: 9690

Number of cycles run: 21493

Number of cycles run: 10453

Number of cycles run: 2731

Number of cycles run: 676

Number of cycles run: 6235

Number of cycles run: 16932

Number of cycles run: 5075

Number of cycles run: 4175

Number of cycles run: 3162

Number of cycles run: 3611

Number of cycles run: 1845

Number of cycles run: 2112

Number of cycles run: 1379

Number of cycles run: 1272

Number of cycles run: 2274

Number of cycles run: 2972

Number of cycles run: 2436

Number of cycles run: 4242

Number of cycles run: 1921

Number of cycles run: 7378

Number of cycles run: 50000

Number of cycles run: 950

Number of cycles run: 555

Number of cycles run: 2771

Number of cycles run: 678

Number of cycles run: 2077

Number of cycles run: 1133

Number of cycles run: 14933

Number of cycles run: 3411

Number of cycles run: 812

Number of cycles run: 2310

Number of cycles run: 8035

Number of cycles run: 16713

Number of cycles run: 3622

Number of cycles run: 1623

Number of cycles run: 6769

Number of cycles run: 50000

Number of cycles run: 3608

Number of cycles run: 50000

Number of cycles run: 15203

Number of cycles run: 4666

Number of cycles run: 2869

Number of cycles run: 34619

Number of cycles run: 3828

Number of cycles run: 50000

Number of cycles run: 5037

Number of cycles run: 4626

Number of cycles run: 713

Number of cycles run: 3069

Number of cycles run: 1155

Number of cycles run: 1415

Number of cycles run: 19585

Number of cycles run: 7736

Number of cycles run: 3462

Number of cycles run: 3504

Number of cycles run: 1208

Number of cycles run: 2423

Number of cycles run: 4360

Number of cycles run: 2978

Number of cycles run: 5068

Number of cycles run: 12234

Number of cycles run: 5777

Number of cycles run: 44549

Number of cycles run: 6245

Number of cycles run: 50000

Number of cycles run: 2355

Number of cycles run: 2904

Number of cycles run: 852

Number of cycles run: 2720

Number of cycles run: 4752

Number of cycles run: 456

Number of cycles run: 4904

Number of cycles run: 4319

Number of cycles run: 4682

Number of cycles run: 2219

Number of cycles run: 1309

Number of cycles run: 15084

Number of cycles run: 5564

Number of cycles run: 2576

Number of cycles run: 4560

Number of cycles run: 4934

Number of cycles run: 3704

Number of cycles run: 886

Av cycles for repulsion strength 2 is 8369

standard diviation is 13183.3970955

Testing average cycles for repulsion strength 2

Number of cycles run: 2404

Number of cycles run: 12368

Number of cycles run: 7603

Number of cycles run: 3475

Number of cycles run: 5902

Number of cycles run: 24503

Number of cycles run: 666

Number of cycles run: 7549

Number of cycles run: 1910

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

[GCC 7.2.0] on linux

Type "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_R2.py =====6628.33

Testing average cycles for repulsion strength 2

Number of cycles run: 8592

Number of cycles run: 15887

Number of cycles run: 1917

Number of cycles run: 2671

Number of cycles run: 1960

Number of cycles run: 4580

Number of cycles run: 2863

Number of cycles run: 790

Number of cycles run: 4102

Number of cycles run: 10267

Number of cycles run: 795

Number of cycles run: 7124

Number of cycles run: 50000

Number of cycles run: 2117

Number of cycles run: 2111

Number of cycles run: 6334

Number of cycles run: 21358

Number of cycles run: 3313

Number of cycles run: 3862

Number of cycles run: 2799

Number of cycles run: 3667

Number of cycles run: 2242

Number of cycles run: 50000

Number of cycles run: 3252

Number of cycles run: 2409

Number of cycles run: 50000

Number of cycles run: 1381

Number of cycles run: 27954

Number of cycles run: 4183

Number of cycles run: 5857

Number of cycles run: 11746

Number of cycles run: 18024

Number of cycles run: 1050

Number of cycles run: 3587

Number of cycles run: 6349

Number of cycles run: 806

Number of cycles run: 1281

Number of cycles run: 3713

Number of cycles run: 1014

Number of cycles run: 2778

Number of cycles run: 4624

Number of cycles run: 594

Number of cycles run: 729

Number of cycles run: 2071

Number of cycles run: 4217

Number of cycles run: 848

Number of cycles run: 1475

Number of cycles run: 1518

Number of cycles run: 1691

Number of cycles run: 4377

Number of cycles run: 29696

Number of cycles run: 6820

Number of cycles run: 14800

Number of cycles run: 50000

Number of cycles run: 3883

Number of cycles run: 5590

Number of cycles run: 7091

Number of cycles run: 2217

Number of cycles run: 1194

Number of cycles run: 2807

Number of cycles run: 4713

Number of cycles run: 3749

Number of cycles run: 3648

Number of cycles run: 34560

Number of cycles run: 2001

Number of cycles run: 5928

Number of cycles run: 1464

Number of cycles run: 8480

Number of cycles run: 537

Number of cycles run: 11498

Number of cycles run: 23211

Number of cycles run: 624

Number of cycles run: 5145

Number of cycles run: 592

Number of cycles run: 5865

Number of cycles run: 1637

Number of cycles run: 6102

Number of cycles run: 4778

Number of cycles run: 2085

Number of cycles run: 4112

Number of cycles run: 1366

Number of cycles run: 9133

Number of cycles run: 9210

Number of cycles run: 4412

Number of cycles run: 815

Number of cycles run: 11548

Number of cycles run: 4059

Number of cycles run: 15012

Number of cycles run: 1991

Number of cycles run: 2407

Number of cycles run: 590

Number of cycles run: 2287

Number of cycles run: 5827

Number of cycles run: 2990

Number of cycles run: 639

Number of cycles run: 3026

Number of cycles run: 810

Number of cycles run: 5574

Number of cycles run: 3775

Number of cycles run: 11632

Av cycles for repulsion strength 2 is 7288

standard diviation is 10778.6904014

Testing average cycles for repulsion strength 2

Number of cycles run: 7782

Number of cycles run: 623

Number of cycles run: 8575

Number of cycles run: 654

Number of cycles run: 5929

Number of cycles run: 1039

Number of cycles run: 455

Number of cycles run: 834

Number of cycles run: 20203

Number of cycles run: 4359

Number of cycles run: 9681

Number of cycles run: 2252

Number of cycles run: 3365

Number of cycles run: 7362

Number of cycles run: 2619

Number of cycles run: 1828

Number of cycles run: 3883

Number of cycles run: 631

Number of cycles run: 2807

Number of cycles run: 2616

Number of cycles run: 50000

Number of cycles run: 590

Number of cycles run: 6993

Number of cycles run: 50000

Number of cycles run: 2377

Number of cycles run: 1538

Number of cycles run: 2188

Number of cycles run: 43055

Number of cycles run: 50000

Number of cycles run: 1768

Number of cycles run: 2931

Number of cycles run: 1575

Number of cycles run: 1143

Number of cycles run: 33688

Number of cycles run: 2748

Number of cycles run: 2698

Number of cycles run: 7079