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\_R3.py =====

Testing average cycles for repulsion strength 2

Number of cycles run: 721

Number of cycles run: 50000

Number of cycles run: 4020

Number of cycles run: 50000

Number of cycles run: 2840

Number of cycles run: 731

Number of cycles run: 4081

Number of cycles run: 2074

Number of cycles run: 666

Number of cycles run: 6553

Number of cycles run: 7873

Number of cycles run: 2372

Number of cycles run: 5119

Number of cycles run: 3553

Number of cycles run: 3417

Number of cycles run: 2551

Number of cycles run: 50000

Number of cycles run: 3012

Number of cycles run: 2655

Number of cycles run: 4778

Number of cycles run: 7388

Number of cycles run: 983

Number of cycles run: 1507

Number of cycles run: 43330

Number of cycles run: 2183

Number of cycles run: 30147

Number of cycles run: 1379

Number of cycles run: 5983

Number of cycles run: 2439

Number of cycles run: 33603

Number of cycles run: 4571

Number of cycles run: 7093

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 15769

Number of cycles run: 3740

Number of cycles run: 2798

Number of cycles run: 1360

Number of cycles run: 1126

Number of cycles run: 1474

Number of cycles run: 8262

Number of cycles run: 1262

Number of cycles run: 2773

Number of cycles run: 5839

Number of cycles run: 653

Number of cycles run: 29187

Number of cycles run: 2566

Number of cycles run: 1246

Number of cycles run: 17509

Number of cycles run: 42962

Number of cycles run: 5751

Number of cycles run: 35184

Number of cycles run: 754

Number of cycles run: 716

Number of cycles run: 476

Number of cycles run: 25928

Number of cycles run: 49561

Number of cycles run: 8616

Number of cycles run: 3484

Number of cycles run: 2775

Number of cycles run: 10594

Number of cycles run: 6915

Number of cycles run: 35666

Number of cycles run: 4511

Number of cycles run: 762

Number of cycles run: 3067

Number of cycles run: 1860

Number of cycles run: 2453

Number of cycles run: 3852

Number of cycles run: 2916

Number of cycles run: 6676

Number of cycles run: 650

Number of cycles run: 858

Number of cycles run: 426

Number of cycles run: 1639

Number of cycles run: 6029

Number of cycles run: 50000

Number of cycles run: 2449

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 27228

Number of cycles run: 5516

Number of cycles run: 3155

Number of cycles run: 813

Number of cycles run: 3670

Number of cycles run: 4887

Number of cycles run: 2742

Number of cycles run: 5092

Number of cycles run: 2474

Number of cycles run: 2383

Number of cycles run: 21025

Number of cycles run: 50000

Number of cycles run: 1942

Number of cycles run: 6767

Number of cycles run: 50000

Number of cycles run: 1138

Number of cycles run: 6863

Number of cycles run: 17648

Number of cycles run: 10750

Number of cycles run: 4535

Av cycles for repulsion strength 2 is 11893

standard diviation is 16371.5095497

Testing average cycles for repulsion strength 2

Number of cycles run: 50000

Number of cycles run: 393

Number of cycles run: 2614

Number of cycles run: 3865

Number of cycles run: 4175

Number of cycles run: 3715

Number of cycles run: 50000

Number of cycles run: 1360

Number of cycles run: 6785

Number of cycles run: 1270

Number of cycles run: 13512

Number of cycles run: 1844

Number of cycles run: 1823

Number of cycles run: 5631

Number of cycles run: 3968

Number of cycles run: 2566

Number of cycles run: 9207

Number of cycles run: 5459

Number of cycles run: 4803

Number of cycles run: 1826

Number of cycles run: 411

Number of cycles run: 5967

Number of cycles run: 38458

Number of cycles run: 3736

Number of cycles run: 1088

Number of cycles run: 50000

Number of cycles run: 2090

Number of cycles run: 1912

Number of cycles run: 6146

Number of cycles run: 2829

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1277

Number of cycles run: 448

Number of cycles run: 1838

Number of cycles run: 3177

Number of cycles run: 1368

Number of cycles run: 50000

Number of cycles run: 19603

Number of cycles run: 2119

Number of cycles run: 4843

Number of cycles run: 17688

Number of cycles run: 1911

Number of cycles run: 3684

Number of cycles run: 8854

Number of cycles run: 4313

Number of cycles run: 688

Number of cycles run: 7187

Number of cycles run: 50000

Number of cycles run: 4547

Number of cycles run: 928

Number of cycles run: 10543

Number of cycles run: 4523

Number of cycles run: 11136

Number of cycles run: 50000

Number of cycles run: 1432

Number of cycles run: 2675

Number of cycles run: 927

Number of cycles run: 47091

Number of cycles run: 50000

Number of cycles run: 2099

Number of cycles run: 3068

Number of cycles run: 15216

Number of cycles run: 4116

Number of cycles run: 11538

Number of cycles run: 50000

Number of cycles run: 3843

Number of cycles run: 2437

Number of cycles run: 3645

Number of cycles run: 3549

Number of cycles run: 15705

Number of cycles run: 2379

Number of cycles run: 574

Number of cycles run: 1085

Number of cycles run: 3013

Number of cycles run: 4703

Number of cycles run: 38046

Number of cycles run: 457

Number of cycles run: 2162

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4703

Number of cycles run: 2427

Number of cycles run: 36936

Number of cycles run: 11364

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1388

Number of cycles run: 4187

Number of cycles run: 2049

Number of cycles run: 1814

Number of cycles run: 6180

Number of cycles run: 50000

Number of cycles run: 961

Number of cycles run: 1371

Number of cycles run: 7093

Number of cycles run: 13399

Number of cycles run: 5811

Number of cycles run: 2975

Number of cycles run: 1205

Av cycles for repulsion strength 2 is 12717

standard diviation is 17653.583452

Testing average cycles for repulsion strength 2

Number of cycles run: 3368

Number of cycles run: 4485

Number of cycles run: 1847

Number of cycles run: 1858

Number of cycles run: 1086

Number of cycles run: 2658

Number of cycles run: 10077

Number of cycles run: 2773

Number of cycles run: 2345

Number of cycles run: 434

Number of cycles run: 6050

Number of cycles run: 2564

Number of cycles run: 27771

Number of cycles run: 2602

Number of cycles run: 2233

Number of cycles run: 1837

Number of cycles run: 4401

Number of cycles run: 50000

Number of cycles run: 2483

Number of cycles run: 1199

Number of cycles run: 6101

Number of cycles run: 36350

Number of cycles run: 3302

Number of cycles run: 3219

Number of cycles run: 6783

Number of cycles run: 50000

Number of cycles run: 2519

Number of cycles run: 50000

Number of cycles run: 4062

Number of cycles run: 3842

Number of cycles run: 2633

Number of cycles run: 2794

Number of cycles run: 431

Number of cycles run: 1738

Number of cycles run: 2989

Number of cycles run: 17607

Number of cycles run: 8711

Number of cycles run: 5001

Number of cycles run: 3031

Number of cycles run: 4184

Number of cycles run: 3769

Number of cycles run: 630

Number of cycles run: 50000

Number of cycles run: 12029

Number of cycles run: 3752

Number of cycles run: 3043

Number of cycles run: 2725

Number of cycles run: 4323

Number of cycles run: 4799

Number of cycles run: 18940

Number of cycles run: 2988

Number of cycles run: 3424

Number of cycles run: 4685

Number of cycles run: 2279

Number of cycles run: 1621

Number of cycles run: 3023

Number of cycles run: 2756

Number of cycles run: 455

Number of cycles run: 11897

Number of cycles run: 2913

Number of cycles run: 15752

Number of cycles run: 3163

Number of cycles run: 4018

Number of cycles run: 12978

Number of cycles run: 50000

Number of cycles run: 2108

Number of cycles run: 20535

Number of cycles run: 2487

Number of cycles run: 2085

Number of cycles run: 4811

Number of cycles run: 3116

Number of cycles run: 35518

Number of cycles run: 50000

Number of cycles run: 33382

Number of cycles run: 3289

Number of cycles run: 2223

Number of cycles run: 2078

Number of cycles run: 2655

Number of cycles run: 50000

Number of cycles run: 4011

Number of cycles run: 5914

Number of cycles run: 1901

Number of cycles run: 1095

Number of cycles run: 6629

Number of cycles run: 4055

Number of cycles run: 3968

Number of cycles run: 4145

Number of cycles run: 3527

Number of cycles run: 1592

Number of cycles run: 4707

Number of cycles run: 23342

Number of cycles run: 6928

Number of cycles run: 2721

Number of cycles run: 3688

Number of cycles run: 15493

Number of cycles run: 2893

Number of cycles run: 2311

Number of cycles run: 5609

Number of cycles run: 6480

Number of cycles run: 941

Av cycles for repulsion strength 2 is 8995

standard diviation is 13335.2501524

Testing average cycles for repulsion strength 2

Number of cycles run: 12118

Number of cycles run: 6006

Number of cycles run: 1155

Number of cycles run: 1975

Number of cycles run: 50000

Number of cycles run: 5429

Number of cycles run: 5430

Number of cycles run: 4086

Number of cycles run: 1138

Number of cycles run: 922

Number of cycles run: 1677

Number of cycles run: 7736

Number of cycles run: 2665

Number of cycles run: 656

Number of cycles run: 782

Number of cycles run: 444

Number of cycles run: 2000

Number of cycles run: 4076

Number of cycles run: 2022

Number of cycles run: 3782

Number of cycles run: 4131

Number of cycles run: 709

Number of cycles run: 3293

Number of cycles run: 2409

Number of cycles run: 1821

Number of cycles run: 6206

Number of cycles run: 1277

Number of cycles run: 959

Number of cycles run: 623

Number of cycles run: 2320

Number of cycles run: 5250

Number of cycles run: 7247

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3566

Number of cycles run: 1211

Number of cycles run: 2693

Number of cycles run: 383

Number of cycles run: 6921

Number of cycles run: 17429

Number of cycles run: 1963

Number of cycles run: 28080

Number of cycles run: 3748

Number of cycles run: 522

Number of cycles run: 7426

Number of cycles run: 4036

Number of cycles run: 3558

Number of cycles run: 1880

Number of cycles run: 50000

Number of cycles run: 885

Number of cycles run: 4453

Number of cycles run: 419

Number of cycles run: 574

Number of cycles run: 2722

Number of cycles run: 3890

Number of cycles run: 860

Number of cycles run: 419

Number of cycles run: 16669

Number of cycles run: 4581

Number of cycles run: 2978

Number of cycles run: 1423

Number of cycles run: 2737

Number of cycles run: 18236

Number of cycles run: 2059

Number of cycles run: 654

Number of cycles run: 1463

Number of cycles run: 623

Number of cycles run: 2623

Number of cycles run: 675

Number of cycles run: 3985

Number of cycles run: 2875

Number of cycles run: 1105

Number of cycles run: 449

Number of cycles run: 1140

Number of cycles run: 6484

Number of cycles run: 3572

Number of cycles run: 2653

Number of cycles run: 4447

Number of cycles run: 7117

Number of cycles run: 26632

Number of cycles run: 880

Number of cycles run: 3067

Number of cycles run: 776

Number of cycles run: 7237

Number of cycles run: 2143

Number of cycles run: 6288

Number of cycles run: 6135

Number of cycles run: 2055

Number of cycles run: 2275

Number of cycles run: 50000

Number of cycles run: 2016

Number of cycles run: 2575

Number of cycles run: 10968

Number of cycles run: 1792

Number of cycles run: 2267

Number of cycles run: 6876

Number of cycles run: 9269

Number of cycles run: 1790

Number of cycles run: 4484

Number of cycles run: 7516

Av cycles for repulsion strength 2 is 6435

standard diviation is 11123.7543135

Testing average cycles for repulsion strength 2

Number of cycles run: 4673

Number of cycles run: 4895

Number of cycles run: 2873

Number of cycles run: 11631

Number of cycles run: 2186

Number of cycles run: 6691

Number of cycles run: 5559

Number of cycles run: 10272

Number of cycles run: 459

Number of cycles run: 1417

Number of cycles run: 50000

Number of cycles run: 2076

Number of cycles run: 5350

Number of cycles run: 1283

Number of cycles run: 12310

Number of cycles run: 384

Number of cycles run: 44063

Number of cycles run: 3940

Number of cycles run: 3776

Number of cycles run: 3710

Number of cycles run: 3797

Number of cycles run: 461

Number of cycles run: 3820

Number of cycles run: 50000

Number of cycles run: 2755

Number of cycles run: 7644

Number of cycles run: 3257

Number of cycles run: 3640

Number of cycles run: 1570

Number of cycles run: 3758

Number of cycles run: 5974

Number of cycles run: 542

Number of cycles run: 1132

Number of cycles run: 1163

Number of cycles run: 3758

Number of cycles run: 460

Number of cycles run: 9563

Number of cycles run: 13945

Number of cycles run: 1145

Number of cycles run: 4774

Number of cycles run: 30066

Number of cycles run: 4042

Number of cycles run: 2474

Number of cycles run: 4607

Number of cycles run: 22703

Number of cycles run: 514

Number of cycles run: 555

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\_R8.py =====/7=9762.14

Testing average cycles for repulsion strength 2

Number of cycles run: 10952

Number of cycles run: 5483

Number of cycles run: 4094

Number of cycles run: 5161

Number of cycles run: 700

Number of cycles run: 5098

Number of cycles run: 4566

Number of cycles run: 50000

Number of cycles run: 454

Number of cycles run: 4558

Number of cycles run: 4031

Number of cycles run: 41485

Number of cycles run: 3306

Number of cycles run: 4658

Number of cycles run: 2991

Number of cycles run: 4313

Number of cycles run: 34626

Number of cycles run: 3177

Number of cycles run: 762

Number of cycles run: 3968

Number of cycles run: 1205

Number of cycles run: 1389

Number of cycles run: 4422

Number of cycles run: 25241

Number of cycles run: 3532

Number of cycles run: 49203

Number of cycles run: 3629

Number of cycles run: 2105

Number of cycles run: 864

Number of cycles run: 2085

Number of cycles run: 1331

Number of cycles run: 1442

Number of cycles run: 1224

Number of cycles run: 1695

Number of cycles run: 4034

Number of cycles run: 3954

Number of cycles run: 7462

Number of cycles run: 2434

Number of cycles run: 3123

Number of cycles run: 3844

Number of cycles run: 2516

Number of cycles run: 50000

Number of cycles run: 5929

Number of cycles run: 6585

Number of cycles run: 12452

Number of cycles run: 977

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1489

Number of cycles run: 2393

Number of cycles run: 5520

Number of cycles run: 2936

Number of cycles run: 5715

Number of cycles run: 50000

Number of cycles run: 5202

Number of cycles run: 726

Number of cycles run: 2180

Number of cycles run: 7151

Number of cycles run: 2297

Number of cycles run: 421

Number of cycles run: 2051

Number of cycles run: 50000

Number of cycles run: 1379

Number of cycles run: 1762

Number of cycles run: 1631

Number of cycles run: 1139

Number of cycles run: 590

Number of cycles run: 2806

Number of cycles run: 4937

Number of cycles run: 976

Number of cycles run: 2798

Number of cycles run: 2217

Number of cycles run: 15984

Number of cycles run: 1438

Number of cycles run: 50000

Number of cycles run: 2552

Number of cycles run: 2416

Number of cycles run: 4052

Number of cycles run: 2681

Number of cycles run: 1181

Number of cycles run: 1453

Number of cycles run: 607

Number of cycles run: 16545

Number of cycles run: 6345

Number of cycles run: 3883

Number of cycles run: 50000

Number of cycles run: 2399

Number of cycles run: 2855

Number of cycles run: 1071

Number of cycles run: 2144

Number of cycles run: 6873

Number of cycles run: 31166

Number of cycles run: 34503

Number of cycles run: 3757

Number of cycles run: 2260

Number of cycles run: 12337

Number of cycles run: 7273

Number of cycles run: 1615

Number of cycles run: 2449

Number of cycles run: 50000

Av cycles for repulsion strength 2 is 9752

standard diviation is 15266.4833265

Testing average cycles for repulsion strength 2

Number of cycles run: 4581

Number of cycles run: 4626

Number of cycles run: 14110

Number of cycles run: 513

Number of cycles run: 5084

Number of cycles run: 5216

Number of cycles run: 14139

Number of cycles run: 4103

Number of cycles run: 20032

Number of cycles run: 3373

Number of cycles run: 32829

Number of cycles run: 2559

Number of cycles run: 447

Number of cycles run: 2613

Number of cycles run: 28852

Number of cycles run: 50000

Number of cycles run: 6738

Number of cycles run: 2656

Number of cycles run: 50000

Number of cycles run: 3454

Number of cycles run: 449

Number of cycles run: 3128

Number of cycles run: 5680

Number of cycles run: 460

Number of cycles run: 1211

Number of cycles run: 9244

Number of cycles run: 1208

Number of cycles run: 4665

Number of cycles run: 3480

Number of cycles run: 4783

Number of cycles run: 21812

Number of cycles run: 32762

Number of cycles run: 3178

Number of cycles run: 6187

Number of cycles run: 50000

Number of cycles run: 7175

Number of cycles run: 50000

Number of cycles run: 9217

Number of cycles run: 5660

Number of cycles run: 2770

Number of cycles run: 765

Number of cycles run: 460

Number of cycles run: 1823

Number of cycles run: 2858

Number of cycles run: 595

Number of cycles run: 13715

Number of cycles run: 1886

Number of cycles run: 16906

Number of cycles run: 2341

Number of cycles run: 2714

Number of cycles run: 2111

Number of cycles run: 1429

Number of cycles run: 4888

Number of cycles run: 50000

Number of cycles run: 946

Number of cycles run: 2069

Number of cycles run: 12187

Number of cycles run: 5837

Number of cycles run: 47869

Number of cycles run: 1586

Number of cycles run: 5206

Number of cycles run: 10634

Number of cycles run: 2872

Number of cycles run: 5338

Number of cycles run: 11155

Number of cycles run: 18320

Number of cycles run: 2621

Number of cycles run: 2541

Number of cycles run: 4901

Number of cycles run: 1413

Number of cycles run: 5052

Number of cycles run: 50000

Number of cycles run: 2165

Number of cycles run: 2531

Number of cycles run: 8062

Number of cycles run: 28329

Number of cycles run: 2983

Number of cycles run: 2498

Number of cycles run: 3766

Number of cycles run: 2809

Number of cycles run: 4189

Number of cycles run: 17805

Number of cycles run: 14073

Number of cycles run: 18815

Number of cycles run: 5586

Number of cycles run: 8493

Number of cycles run: 2537

Number of cycles run: 794

Number of cycles run: 5349

Number of cycles run: 3892

Number of cycles run: 445

Number of cycles run: 5236

Number of cycles run: 3094

Number of cycles run: 3075

Number of cycles run: 3257

Number of cycles run: 631

Number of cycles run: 2900

Number of cycles run: 1350

Number of cycles run: 5169

Number of cycles run: 2835

Av cycles for repulsion strength 2 is 9347

standard diviation is 13070.5522462

Testing average cycles for repulsion strength 2

Number of cycles run: 3682

Number of cycles run: 4546

Number of cycles run: 1165

Number of cycles run: 50000

Number of cycles run: 1561

Number of cycles run: 1428

Number of cycles run: 3029

Number of cycles run: 4278

Number of cycles run: 2236

Number of cycles run: 4446

Number of cycles run: 5538

Number of cycles run: 703

Number of cycles run: 2666

Number of cycles run: 7729

Number of cycles run: 2140

Number of cycles run: 5941

Number of cycles run: 3306

Number of cycles run: 1485

Number of cycles run: 1055

Number of cycles run: 4915

Number of cycles run: 706

Number of cycles run: 4572

Number of cycles run: 2444

Number of cycles run: 22644

Number of cycles run: 2436

Number of cycles run: 5606

Number of cycles run: 50000

Number of cycles run: 2893

Number of cycles run: 50000

Number of cycles run: 570

Number of cycles run: 5739

Number of cycles run: 50000

Number of cycles run: 5927

Number of cycles run: 2895

Number of cycles run: 2343

Number of cycles run: 2791

Number of cycles run: 50000

Number of cycles run: 2552

Number of cycles run: 4970

Number of cycles run: 3218

Number of cycles run: 26166

Number of cycles run: 6046

Number of cycles run: 4361

Number of cycles run: 1564

Number of cycles run: 3166

Number of cycles run: 2503

Number of cycles run: 4292

Number of cycles run: 6909

Number of cycles run: 50000

Number of cycles run: 4201

Number of cycles run: 4170

Number of cycles run: 3456

Number of cycles run: 50000

Number of cycles run: 18492

Number of cycles run: 4163

Number of cycles run: 412

Number of cycles run: 23430

Number of cycles run: 1163

Number of cycles run: 3288

Number of cycles run: 21554

Number of cycles run: 989

Number of cycles run: 584

Number of cycles run: 3257

Number of cycles run: 1392

Number of cycles run: 969

Number of cycles run: 5138

Number of cycles run: 3091

Number of cycles run: 634

Number of cycles run: 1608

Number of cycles run: 16693

Number of cycles run: 50000

Number of cycles run: 1683

Number of cycles run: 34592

Number of cycles run: 23797

Number of cycles run: 3187

Number of cycles run: 3598

Number of cycles run: 582

Number of cycles run: 787

Number of cycles run: 7412

Number of cycles run: 1696

Number of cycles run: 10405

Number of cycles run: 3066

Number of cycles run: 3737

Number of cycles run: 3203

Number of cycles run: 1152

Number of cycles run: 26388

Number of cycles run: 948

Number of cycles run: 3690

Number of cycles run: 1743

Number of cycles run: 1854

Number of cycles run: 3155

Number of cycles run: 6408

Number of cycles run: 4376

Number of cycles run: 3653

Number of cycles run: 1828

Number of cycles run: 3030

Number of cycles run: 50000

Number of cycles run: 504

Number of cycles run: 596

Number of cycles run: 4697

Av cycles for repulsion strength 2 is 9196

standard diviation is 14370.8785597

Testing average cycles for repulsion strength 2

Number of cycles run: 3297

Number of cycles run: 50000

Number of cycles run: 5598

Number of cycles run: 4543

Number of cycles run: 2436

Number of cycles run: 589

Number of cycles run: 2799

Number of cycles run: 3352