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\_R5.py =====/7=10350

Testing average cycles for repulsion strength 4

Number of cycles run: 6174

Number of cycles run: 2817

Number of cycles run: 1776

Number of cycles run: 5195

Number of cycles run: 7248

Number of cycles run: 2105

Number of cycles run: 3572

Number of cycles run: 1759

Number of cycles run: 8703

Number of cycles run: 4982

Number of cycles run: 2561

Number of cycles run: 3180

Number of cycles run: 4335

Number of cycles run: 4591

Number of cycles run: 6883

Number of cycles run: 1440

Number of cycles run: 9932

Number of cycles run: 2778

Number of cycles run: 2633

Number of cycles run: 2047

Number of cycles run: 1747

Number of cycles run: 4891

Number of cycles run: 2288

Number of cycles run: 2861

Number of cycles run: 4051

Number of cycles run: 4358

Number of cycles run: 3062

Number of cycles run: 3319

Number of cycles run: 3656

Number of cycles run: 3508

Number of cycles run: 2171

Number of cycles run: 19013

Number of cycles run: 7105

Number of cycles run: 2952

Number of cycles run: 50000

Number of cycles run: 1743

Number of cycles run: 43545

Number of cycles run: 5393

Number of cycles run: 7888

Number of cycles run: 494

Number of cycles run: 4225

Number of cycles run: 13583

Number of cycles run: 448

Number of cycles run: 5390

Number of cycles run: 2744

Number of cycles run: 50000

Number of cycles run: 3378

Number of cycles run: 1810

Number of cycles run: 2090

Number of cycles run: 8505

Number of cycles run: 2004

Number of cycles run: 4399

Number of cycles run: 1202

Number of cycles run: 1746

Number of cycles run: 3276

Number of cycles run: 1491

Number of cycles run: 831

Number of cycles run: 5419

Number of cycles run: 3296

Number of cycles run: 3077

Number of cycles run: 4742

Number of cycles run: 4389

Number of cycles run: 3292

Number of cycles run: 378

Number of cycles run: 50000

Number of cycles run: 4560

Number of cycles run: 685

Number of cycles run: 6553

Number of cycles run: 1512

Number of cycles run: 50000

Number of cycles run: 8218

Number of cycles run: 2051

Number of cycles run: 1228

Number of cycles run: 3676

Number of cycles run: 2905

Number of cycles run: 50000

Number of cycles run: 787

Number of cycles run: 9370

Number of cycles run: 2485

Number of cycles run: 5152

Number of cycles run: 3557

Number of cycles run: 4682

Number of cycles run: 4989

Number of cycles run: 1633

Number of cycles run: 760

Number of cycles run: 1751

Number of cycles run: 16051

Number of cycles run: 12327

Number of cycles run: 5438

Number of cycles run: 6624

Number of cycles run: 14038

Number of cycles run: 830

Number of cycles run: 7613

Number of cycles run: 39976

Number of cycles run: 935

Number of cycles run: 2378

Number of cycles run: 431

Number of cycles run: 1151

Number of cycles run: 4523

Number of cycles run: 4384

Av cycles for repulsion strength 4 is 7237

standard diviation is 11669.2241016

Testing average cycles for repulsion strength 4

Number of cycles run: 2729

Number of cycles run: 448

Number of cycles run: 44711

Number of cycles run: 425

Number of cycles run: 2769

Number of cycles run: 24388

Number of cycles run: 5221

Number of cycles run: 50000

Number of cycles run: 4661

Number of cycles run: 9054

Number of cycles run: 2281

Number of cycles run: 28271

Number of cycles run: 445

Number of cycles run: 1193

Number of cycles run: 50000

Number of cycles run: 4178

Number of cycles run: 50000

Number of cycles run: 1021

Number of cycles run: 546

Number of cycles run: 4161

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2966

Number of cycles run: 2023

Number of cycles run: 50000

Number of cycles run: 3099

Number of cycles run: 3206

Number of cycles run: 3701

Number of cycles run: 2146

Number of cycles run: 2918

Number of cycles run: 3191

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3564

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3066

Number of cycles run: 2346

Number of cycles run: 4050

Number of cycles run: 50000

Number of cycles run: 2589

Number of cycles run: 50000

Number of cycles run: 2403

Number of cycles run: 4514

Number of cycles run: 50000

Number of cycles run: 4647

Number of cycles run: 10408

Number of cycles run: 5441

Number of cycles run: 2624

Number of cycles run: 3832

Number of cycles run: 4345

Number of cycles run: 4604

Number of cycles run: 9753

Number of cycles run: 2083

Number of cycles run: 638

Number of cycles run: 50000

Number of cycles run: 2012

Number of cycles run: 50000

Number of cycles run: 5186

Number of cycles run: 911

Number of cycles run: 5921

Number of cycles run: 3642

Number of cycles run: 1742

Number of cycles run: 2375

Number of cycles run: 1407

Number of cycles run: 2018

Number of cycles run: 3146

Number of cycles run: 3115

Number of cycles run: 1066

Number of cycles run: 5521

Number of cycles run: 454

Number of cycles run: 3164

Number of cycles run: 50000

Number of cycles run: 444

Number of cycles run: 2975

Number of cycles run: 22385

Number of cycles run: 4248

Number of cycles run: 2778

Number of cycles run: 3576

Number of cycles run: 50000

Number of cycles run: 1406

Number of cycles run: 1339

Number of cycles run: 14255

Number of cycles run: 2826

Number of cycles run: 1717

Number of cycles run: 6618

Number of cycles run: 2885

Number of cycles run: 50000

Number of cycles run: 2115

Number of cycles run: 667

Number of cycles run: 37267

Number of cycles run: 3667

Number of cycles run: 3212

Number of cycles run: 2569

Number of cycles run: 669

Number of cycles run: 1765

Number of cycles run: 1440

Number of cycles run: 407

Number of cycles run: 2638

Number of cycles run: 50000

Av cycles for repulsion strength 4 is 13462

standard diviation is 19026.6353227

Testing average cycles for repulsion strength 4

Number of cycles run: 483

Number of cycles run: 50000

Number of cycles run: 2810

Number of cycles run: 2853

Number of cycles run: 1169

Number of cycles run: 1121

Number of cycles run: 1270

Number of cycles run: 5455

Number of cycles run: 7523

Number of cycles run: 6965

Number of cycles run: 2827

Number of cycles run: 11246

Number of cycles run: 6064

Number of cycles run: 1756

Number of cycles run: 3352

Number of cycles run: 24783

Number of cycles run: 1565

Number of cycles run: 1471

Number of cycles run: 427

Number of cycles run: 1449

Number of cycles run: 8099

Number of cycles run: 50000

Number of cycles run: 593

Number of cycles run: 2390

Number of cycles run: 5370

Number of cycles run: 2023

Number of cycles run: 15101

Number of cycles run: 4844

Number of cycles run: 984

Number of cycles run: 2159

Number of cycles run: 7174

Number of cycles run: 741

Number of cycles run: 4969

Number of cycles run: 5934

Number of cycles run: 50000

Number of cycles run: 3350

Number of cycles run: 3546

Number of cycles run: 3907

Number of cycles run: 1559

Number of cycles run: 8205

Number of cycles run: 2332

Number of cycles run: 13163

Number of cycles run: 6499

Number of cycles run: 658

Number of cycles run: 9243

Number of cycles run: 13353

Number of cycles run: 3788

Number of cycles run: 1293

Number of cycles run: 1005

Number of cycles run: 2546

Number of cycles run: 27510

Number of cycles run: 669

Number of cycles run: 2236

Number of cycles run: 416

Number of cycles run: 2858

Number of cycles run: 7811

Number of cycles run: 32747

Number of cycles run: 9529

Number of cycles run: 1025

Number of cycles run: 4554

Number of cycles run: 2328

Number of cycles run: 31842

Number of cycles run: 2268

Number of cycles run: 50000

Number of cycles run: 14065

Number of cycles run: 50000

Number of cycles run: 3109

Number of cycles run: 10240

Number of cycles run: 480

Number of cycles run: 50000

Number of cycles run: 505

Number of cycles run: 50000

Number of cycles run: 6151

Number of cycles run: 1699

Number of cycles run: 50000

Number of cycles run: 4526

Number of cycles run: 831

Number of cycles run: 7856

Number of cycles run: 3196

Number of cycles run: 2631

Number of cycles run: 13404

Number of cycles run: 4076

Number of cycles run: 11047

Number of cycles run: 3267

Number of cycles run: 4236

Number of cycles run: 50000

Number of cycles run: 11721

Number of cycles run: 3334

Number of cycles run: 50000

Number of cycles run: 2971

Number of cycles run: 11230

Number of cycles run: 652

Number of cycles run: 2962

Number of cycles run: 2000

Number of cycles run: 6549

Number of cycles run: 2902

Number of cycles run: 7357

Number of cycles run: 1135

Number of cycles run: 4154

Number of cycles run: 1114

Av cycles for repulsion strength 4 is 9946

standard diviation is 14710.6810914

Testing average cycles for repulsion strength 4

Number of cycles run: 30714

Number of cycles run: 6461

Number of cycles run: 39436

Number of cycles run: 1713

Number of cycles run: 9597

Number of cycles run: 4641

Number of cycles run: 6474

Number of cycles run: 2966

Number of cycles run: 1977

Number of cycles run: 17155

Number of cycles run: 2075

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[GCC 7.2.0] on linux

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>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_R5.py =====

Testing average cycles for repulsion strength 4

Number of cycles run: 45444

Number of cycles run: 10930

Number of cycles run: 1243

Number of cycles run: 6219

Number of cycles run: 2346

Number of cycles run: 643

Number of cycles run: 666

Number of cycles run: 50000

Number of cycles run: 4263

Number of cycles run: 50000

Number of cycles run: 3677

Number of cycles run: 8865

Number of cycles run: 2626

Number of cycles run: 2290

Number of cycles run: 7699

Number of cycles run: 17339

Number of cycles run: 3186

Number of cycles run: 2911

Number of cycles run: 11010

Number of cycles run: 50000

Number of cycles run: 1609

Number of cycles run: 1234

Number of cycles run: 2143

Number of cycles run: 1415

Number of cycles run: 50000

Number of cycles run: 1363

Number of cycles run: 50000

Number of cycles run: 1544

Number of cycles run: 515

Number of cycles run: 5151

Number of cycles run: 2031

Number of cycles run: 10655

Number of cycles run: 5237

Number of cycles run: 663

Number of cycles run: 37286

Number of cycles run: 3017

Number of cycles run: 50000

Number of cycles run: 5873

Number of cycles run: 50000

Number of cycles run: 3665

Number of cycles run: 50000

Number of cycles run: 3452

Number of cycles run: 4063

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 9590

Number of cycles run: 3868

Number of cycles run: 14245

Number of cycles run: 644

Number of cycles run: 50000

Number of cycles run: 1009

Number of cycles run: 1250

Number of cycles run: 639

Number of cycles run: 594

Number of cycles run: 4137

Number of cycles run: 884

Number of cycles run: 3777

Number of cycles run: 50000

Number of cycles run: 863

Number of cycles run: 7930

Number of cycles run: 1389

Number of cycles run: 692

Number of cycles run: 5390

Number of cycles run: 395

Number of cycles run: 2417

Number of cycles run: 50000

Number of cycles run: 5079

Number of cycles run: 50000

Number of cycles run: 18823

Number of cycles run: 1212

Number of cycles run: 2512

Number of cycles run: 2056

Number of cycles run: 50000

Number of cycles run: 1475

Number of cycles run: 3494

Number of cycles run: 2835

Number of cycles run: 2750

Number of cycles run: 50000

Number of cycles run: 1655

Number of cycles run: 1994

Number of cycles run: 398

Number of cycles run: 3219

Number of cycles run: 793

Number of cycles run: 2731

Number of cycles run: 1436

Number of cycles run: 3982

Number of cycles run: 1452

Number of cycles run: 6766

Number of cycles run: 2596

Number of cycles run: 6373

Number of cycles run: 581

Number of cycles run: 1735

Number of cycles run: 2527

Number of cycles run: 383

Number of cycles run: 4323

Number of cycles run: 50000

Number of cycles run: 2975

Number of cycles run: 3052

Number of cycles run: 50000

Number of cycles run: 2074

Av cycles for repulsion strength 4 is 12732

standard diviation is 18630.5723477

Testing average cycles for repulsion strength 4

Number of cycles run: 1299

Number of cycles run: 4648

Number of cycles run: 2160

Number of cycles run: 4140

Number of cycles run: 823

Number of cycles run: 3510

Number of cycles run: 520

Number of cycles run: 1074

Number of cycles run: 50000

Number of cycles run: 2700

Number of cycles run: 3508

Number of cycles run: 540

Number of cycles run: 2767

Number of cycles run: 2204

Number of cycles run: 450

Number of cycles run: 393

Number of cycles run: 3049

Number of cycles run: 2408

Number of cycles run: 1460

Number of cycles run: 1870

Number of cycles run: 1982

Number of cycles run: 4789

Number of cycles run: 50000

Number of cycles run: 1182

Number of cycles run: 8289

Number of cycles run: 1387

Number of cycles run: 2055

Number of cycles run: 4132

Number of cycles run: 2800

Number of cycles run: 5901

Number of cycles run: 6060

Number of cycles run: 2183

Number of cycles run: 1609

Number of cycles run: 2008

Number of cycles run: 22261

Number of cycles run: 2887

Number of cycles run: 1904

Number of cycles run: 8186

Number of cycles run: 478

Number of cycles run: 4530

Number of cycles run: 5706

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2971

Number of cycles run: 592

Number of cycles run: 50000

Number of cycles run: 39315

Number of cycles run: 5731

Number of cycles run: 50000

Number of cycles run: 3852

Number of cycles run: 50000

Number of cycles run: 2202

Number of cycles run: 14220

Number of cycles run: 9866

Number of cycles run: 6784

Number of cycles run: 1485

Number of cycles run: 3889

Number of cycles run: 2751

Number of cycles run: 5206

Number of cycles run: 1723

Number of cycles run: 7390

Number of cycles run: 4296

Number of cycles run: 4694

Number of cycles run: 2101

Number of cycles run: 7378

Number of cycles run: 1831

Number of cycles run: 2731

Number of cycles run: 3413

Number of cycles run: 8561

Number of cycles run: 5477

Number of cycles run: 3833

Number of cycles run: 6523

Number of cycles run: 3300

Number of cycles run: 5488

Number of cycles run: 2814

Number of cycles run: 2701

Number of cycles run: 50000

Number of cycles run: 4858

Number of cycles run: 2679

Number of cycles run: 970

Number of cycles run: 6488

Number of cycles run: 4066

Number of cycles run: 3508

Number of cycles run: 1256

Number of cycles run: 3867

Number of cycles run: 14604

Number of cycles run: 2880

Number of cycles run: 1532

Number of cycles run: 50000

Number of cycles run: 15935

Number of cycles run: 2919

Number of cycles run: 36418

Number of cycles run: 1255

Number of cycles run: 36667

Number of cycles run: 50000

Number of cycles run: 5746

Number of cycles run: 2831

Number of cycles run: 2367

Number of cycles run: 4444

Number of cycles run: 2768

Av cycles for repulsion strength 4 is 9610

standard diviation is 15065.185947

Testing average cycles for repulsion strength 4

Number of cycles run: 2265

Number of cycles run: 1313

Number of cycles run: 2997

Number of cycles run: 2362

Number of cycles run: 50000

Number of cycles run: 2173

Number of cycles run: 3755

Number of cycles run: 441

Number of cycles run: 2721

Number of cycles run: 7608

Number of cycles run: 5472

Number of cycles run: 3463

Number of cycles run: 8356

Number of cycles run: 6018

Number of cycles run: 20047

Number of cycles run: 2553

Number of cycles run: 4517

Number of cycles run: 3593

Number of cycles run: 691

Number of cycles run: 3890

Number of cycles run: 1907

Number of cycles run: 7555

Number of cycles run: 3745

Number of cycles run: 3242

Number of cycles run: 5640

Number of cycles run: 23385

Number of cycles run: 8134

Number of cycles run: 3094

Number of cycles run: 3508

Number of cycles run: 2448

Number of cycles run: 3449

Number of cycles run: 8874

Number of cycles run: 6793

Number of cycles run: 50000

Number of cycles run: 4382

Number of cycles run: 2341

Number of cycles run: 3512

Number of cycles run: 2880

Number of cycles run: 440

Number of cycles run: 1491

Number of cycles run: 699

Number of cycles run: 3082

Number of cycles run: 1997

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3398

Number of cycles run: 50000

Number of cycles run: 636

Number of cycles run: 4479

Number of cycles run: 1674

Number of cycles run: 3404

Number of cycles run: 1809

Number of cycles run: 2220

Number of cycles run: 50000

Number of cycles run: 3734

Number of cycles run: 1202

Number of cycles run: 3653

Number of cycles run: 50000

Number of cycles run: 5607

Number of cycles run: 1082

Number of cycles run: 2795

Number of cycles run: 1695

Number of cycles run: 3115

Number of cycles run: 50000

Number of cycles run: 3457

Number of cycles run: 2209

Number of cycles run: 4613

Number of cycles run: 2876

Number of cycles run: 1919

Number of cycles run: 4761

Number of cycles run: 1151

Number of cycles run: 743

Number of cycles run: 950

Number of cycles run: 1294

Number of cycles run: 50000

Number of cycles run: 920

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 554

Number of cycles run: 3211

Number of cycles run: 2913

Number of cycles run: 3666

Number of cycles run: 5198

Number of cycles run: 709

Number of cycles run: 1417

Number of cycles run: 15109

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2183

Number of cycles run: 1357

Number of cycles run: 1972

Number of cycles run: 5339

Number of cycles run: 2174

Number of cycles run: 3224

Number of cycles run: 4142

Number of cycles run: 1624

Number of cycles run: 2731

Number of cycles run: 773

Number of cycles run: 2201

Number of cycles run: 2020

Av cycles for repulsion strength 4 is 9647

standard diviation is 16035.2268292

Testing average cycles for repulsion strength 4

Number of cycles run: 1055

Number of cycles run: 2414

Number of cycles run: 1976

Number of cycles run: 6766

Number of cycles run: 49863

Number of cycles run: 2787

Number of cycles run: 3467

Number of cycles run: 1609

Number of cycles run: 2168

Number of cycles run: 5811

Number of cycles run: 2218

Number of cycles run: 30629

Number of cycles run: 19416

Number of cycles run: 1831

Number of cycles run: 10340

Number of cycles run: 3218

Number of cycles run: 33769

Number of cycles run: 5809

Number of cycles run: 7255

Number of cycles run: 2239

Number of cycles run: 3115

Number of cycles run: 6444

Number of cycles run: 1592

Number of cycles run: 1051

Number of cycles run: 15566

Number of cycles run: 598

Number of cycles run: 2157

Number of cycles run: 50000

Number of cycles run: 14124

Number of cycles run: 43949

Number of cycles run: 5877

Number of cycles run: 3222

Number of cycles run: 2831

Number of cycles run: 6036

Number of cycles run: 50000

Number of cycles run: 2475

Number of cycles run: 967

Number of cycles run: 4926

Number of cycles run: 2673

Number of cycles run: 18036

Number of cycles run: 5222

Number of cycles run: 50000

Number of cycles run: 2809

Number of cycles run: 7882

Number of cycles run: 1810

Number of cycles run: 560

Number of cycles run: 50000

Number of cycles run: 6539

Number of cycles run: 26577

Number of cycles run: 814

Number of cycles run: 4747

Number of cycles run: 1537

Number of cycles run: 828

Number of cycles run: 1592

Number of cycles run: 1608

Number of cycles run: 6555

Number of cycles run: 5845

Number of cycles run: 5501

Number of cycles run: 2058

Number of cycles run: 37877

Number of cycles run: 21051

Number of cycles run: 4837

Number of cycles run: 1041

Number of cycles run: 1798

Number of cycles run: 12549

Number of cycles run: 1786

Number of cycles run: 10318

Number of cycles run: 4274

Number of cycles run: 24406

Number of cycles run: 1542

Number of cycles run: 7214

Number of cycles run: 795

Number of cycles run: 393

Number of cycles run: 2250

Number of cycles run: 50000

Number of cycles run: 47736

Number of cycles run: 3185

Number of cycles run: 2372

Number of cycles run: 2979

Number of cycles run: 778

Number of cycles run: 5735

Number of cycles run: 3983

Number of cycles run: 50000

Number of cycles run: 4640

Number of cycles run: 27881

Number of cycles run: 1901

Number of cycles run: 465

Number of cycles run: 595

Number of cycles run: 4336

Number of cycles run: 856

Number of cycles run: 2558

Number of cycles run: 1781

Number of cycles run: 3485

Number of cycles run: 1262

Number of cycles run: 9225

Number of cycles run: 937

Number of cycles run: 4758

Number of cycles run: 1007

Number of cycles run: 1780

Number of cycles run: 2543

Av cycles for repulsion strength 4 is 9816

standard diviation is 14454.2312739

Testing average cycles for repulsion strength 4

Number of cycles run: 1298

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 4

Number of cycles run: 9676

Number of cycles run: 1727

Number of cycles run: 12522

Number of cycles run: 3007

Number of cycles run: 4780

Number of cycles run: 3811

Number of cycles run: 6004

Number of cycles run: 2293

Number of cycles run: 5369

Number of cycles run: 2554

Number of cycles run: 5185

Number of cycles run: 3805

Number of cycles run: 2225

Number of cycles run: 2489

Number of cycles run: 7260

Number of cycles run: 50000

Number of cycles run: 3179

Number of cycles run: 2117

Number of cycles run: 4941

Number of cycles run: 8626

Number of cycles run: 50000

Number of cycles run: 3363

Number of cycles run: 7784

Number of cycles run: 6109

Number of cycles run: 6177

Number of cycles run: 2587

Number of cycles run: 14383

Number of cycles run: 2673

Number of cycles run: 5206

Number of cycles run: 3546

Number of cycles run: 34497

Number of cycles run: 50000

Number of cycles run: 1656

Number of cycles run: 4365

Number of cycles run: 7704

Number of cycles run: 16118

Number of cycles run: 50000

Number of cycles run: 12891

Number of cycles run: 17593

Number of cycles run: 7494

Number of cycles run: 27726

Number of cycles run: 3265

Number of cycles run: 12942

Number of cycles run: 6397

Number of cycles run: 4021

Number of cycles run: 50000

Number of cycles run: 6328

Number of cycles run: 1756

Number of cycles run: 31253

Number of cycles run: 5900

Number of cycles run: 10473

Number of cycles run: 50000

Number of cycles run: 4173

Number of cycles run: 5881

Number of cycles run: 20650

Number of cycles run: 6965

Number of cycles run: 2408

Number of cycles run: 13008

Number of cycles run: 12517

Number of cycles run: 1506

Number of cycles run: 3600

Number of cycles run: 2774

Number of cycles run: 6599

Number of cycles run: 4213

Number of cycles run: 50000

Number of cycles run: 4818

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2604

Number of cycles run: 5111

Number of cycles run: 3032

Number of cycles run: 2617

Number of cycles run: 6214

Number of cycles run: 5523

Number of cycles run: 8168

Number of cycles run: 4810

Number of cycles run: 7901

Number of cycles run: 2907

Number of cycles run: 50000

Number of cycles run: 7213

Number of cycles run: 50000

Number of cycles run: 4316

Number of cycles run: 18844

Number of cycles run: 39858

Number of cycles run: 5644

Number of cycles run: 11677

Number of cycles run: 7753

Number of cycles run: 912

Number of cycles run: 6465

Number of cycles run: 13022

Number of cycles run: 40754

Number of cycles run: 50000

Number of cycles run: 4171

Number of cycles run: 4439

Number of cycles run: 8768

Number of cycles run: 12045

Number of cycles run: 5135

Number of cycles run: 5598

Number of cycles run: 7996

Number of cycles run: 42199

Av cycles for repulsion strength 4 is 13405

standard diviation is 15822.3965407

Testing average cycles for repulsion strength 4

Number of cycles run: 4975

Number of cycles run: 1901

Number of cycles run: 5909

Number of cycles run: 8471

Number of cycles run: 5975

Number of cycles run: 3430

Number of cycles run: 50000

Number of cycles run: 9574

Number of cycles run: 3493

Number of cycles run: 2149

Number of cycles run: 20234

Number of cycles run: 3680

Number of cycles run: 2995

Number of cycles run: 2507

Number of cycles run: 2433

Number of cycles run: 20460

Number of cycles run: 6205

Number of cycles run: 3388

Number of cycles run: 2207

Number of cycles run: 5288

Number of cycles run: 3597

Number of cycles run: 2867

Number of cycles run: 50000

Number of cycles run: 24362

Number of cycles run: 34650

Number of cycles run: 3564

Number of cycles run: 3206

Number of cycles run: 4447

Number of cycles run: 15976

Number of cycles run: 5541

Number of cycles run: 4082

Number of cycles run: 50000

Number of cycles run: 5648

Number of cycles run: 2053

Number of cycles run: 2350

Number of cycles run: 6506

Number of cycles run: 5012

Number of cycles run: 3448

Number of cycles run: 3276

Number of cycles run: 1125

Number of cycles run: 4821

Number of cycles run: 5186

Number of cycles run: 3511

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4033

Number of cycles run: 28026

Number of cycles run: 4666

Number of cycles run: 4621

Number of cycles run: 5174

Number of cycles run: 7145

Number of cycles run: 16042

Number of cycles run: 1954

Number of cycles run: 25962

Number of cycles run: 50000

Number of cycles run: 3867

Number of cycles run: 5255

Number of cycles run: 11513

Number of cycles run: 2124

Number of cycles run: 50000

Number of cycles run: 1588

Number of cycles run: 50000

Number of cycles run: 19618

Number of cycles run: 2356

Number of cycles run: 38815

Number of cycles run: 4550

Number of cycles run: 10262

Number of cycles run: 9993

Number of cycles run: 3913

Number of cycles run: 2747

Number of cycles run: 3049

Number of cycles run: 4165

Number of cycles run: 3349

Number of cycles run: 47668

Number of cycles run: 16521

Number of cycles run: 43727

Number of cycles run: 2402

Number of cycles run: 15093

Number of cycles run: 29437

Number of cycles run: 3282

Number of cycles run: 12983

Number of cycles run: 9030

Number of cycles run: 50000

Number of cycles run: 2483

Number of cycles run: 2798

Number of cycles run: 14021

Number of cycles run: 5333

Number of cycles run: 6576

Number of cycles run: 5498

Number of cycles run: 4308

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6877

Number of cycles run: 50000

Number of cycles run: 4768

Number of cycles run: 5664

Number of cycles run: 3678

Number of cycles run: 50000

Number of cycles run: 6116

Number of cycles run: 50000

Av cycles for repulsion strength 4 is 14335

standard diviation is 16987.1691303

Testing average cycles for repulsion strength 4

Number of cycles run: 5682

Number of cycles run: 49188

Number of cycles run: 1274

Number of cycles run: 2471

Number of cycles run: 13300

Number of cycles run: 5713

Number of cycles run: 6901

Number of cycles run: 2690

Number of cycles run: 2389

Number of cycles run: 2757

Number of cycles run: 50000

Number of cycles run: 11336

Number of cycles run: 8664

Number of cycles run: 7715

Number of cycles run: 6722

Number of cycles run: 4034

Number of cycles run: 6876

Number of cycles run: 4555

Number of cycles run: 3449

Number of cycles run: 13757

Number of cycles run: 8712

Number of cycles run: 3952

Number of cycles run: 6361

Number of cycles run: 7691

Number of cycles run: 9769

Number of cycles run: 13591

Number of cycles run: 5710

Number of cycles run: 19398

Number of cycles run: 4923

Number of cycles run: 1085

Number of cycles run: 2114

Number of cycles run: 11217

Number of cycles run: 3649

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 8443

Number of cycles run: 1614

Number of cycles run: 50000

Number of cycles run: 6263

Number of cycles run: 15959

Number of cycles run: 4371

Number of cycles run: 5777

Number of cycles run: 3677

Number of cycles run: 50000

Number of cycles run: 4017

Number of cycles run: 1838

Number of cycles run: 3271

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6584

Number of cycles run: 50000

Number of cycles run: 6065

Number of cycles run: 44371

Number of cycles run: 3792

Number of cycles run: 6182

Number of cycles run: 50000

Number of cycles run: 8350

Number of cycles run: 12008

Number of cycles run: 3426

Number of cycles run: 13314

Number of cycles run: 50000

Number of cycles run: 4108

Number of cycles run: 50000

Number of cycles run: 6061

Number of cycles run: 3178

Number of cycles run: 6597

Number of cycles run: 50000

Number of cycles run: 13271

Number of cycles run: 4991

Number of cycles run: 5671

Number of cycles run: 4733

Number of cycles run: 41224

Number of cycles run: 8833

Number of cycles run: 2343

Number of cycles run: 11833

Number of cycles run: 3271

Number of cycles run: 6172

Number of cycles run: 4545

Number of cycles run: 4016

Number of cycles run: 5925

Number of cycles run: 30530

Number of cycles run: 4791

Number of cycles run: 2044

Number of cycles run: 3258

Number of cycles run: 3261

Number of cycles run: 4077

Number of cycles run: 4509

Number of cycles run: 11060

Number of cycles run: 1937

Number of cycles run: 1079

Number of cycles run: 1831

Number of cycles run: 4005

Number of cycles run: 3132

Number of cycles run: 5333

Number of cycles run: 5453

Number of cycles run: 2228

Number of cycles run: 50000

Number of cycles run: 5782

Number of cycles run: 7984

Av cycles for repulsion strength 4 is 13560

standard diviation is 16727.4355386

Testing average cycles for repulsion strength 4

Number of cycles run: 21417

Number of cycles run: 5629

Number of cycles run: 3906

Number of cycles run: 50000

Number of cycles run: 30304

Number of cycles run: 5553

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4447

Number of cycles run: 22601

Number of cycles run: 10693

Number of cycles run: 6285

Number of cycles run: 3928

Number of cycles run: 50000

Number of cycles run: 5995

Number of cycles run: 6398

Number of cycles run: 5634

Number of cycles run: 50000

Number of cycles run: 2864

Number of cycles run: 3899

Number of cycles run: 4815

Number of cycles run: 5658

Number of cycles run: 6953

Number of cycles run: 8730

Number of cycles run: 11710

Number of cycles run: 5718

Number of cycles run: 4985

Number of cycles run: 4655

Number of cycles run: 4429

Number of cycles run: 3183

Number of cycles run: 32620

Number of cycles run: 50000

Number of cycles run: 3042

Number of cycles run: 2594

Number of cycles run: 2273

Number of cycles run: 3061

Number of cycles run: 12056

Number of cycles run: 5348

Number of cycles run: 8732

Number of cycles run: 4701

Number of cycles run: 3209

Number of cycles run: 16631

Number of cycles run: 50000

Number of cycles run: 3292

Number of cycles run: 6484

Number of cycles run: 50000

Number of cycles run: 12138

Number of cycles run: 3571

Number of cycles run: 21096

Number of cycles run: 12089

Number of cycles run: 3565

Number of cycles run: 10496

Number of cycles run: 44849