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\_R6.py =====

Testing average cycles for repulsion strength 5

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4951

Number of cycles run: 6676

Number of cycles run: 2796

Number of cycles run: 1492

Number of cycles run: 7216

Number of cycles run: 15338

Number of cycles run: 2644

Number of cycles run: 4312

Number of cycles run: 50000

Number of cycles run: 420

Number of cycles run: 2107

Number of cycles run: 2478

Number of cycles run: 8193

Number of cycles run: 395

Number of cycles run: 2409

Number of cycles run: 2443

Number of cycles run: 4558

Number of cycles run: 50000

Number of cycles run: 1679

Number of cycles run: 2543

Number of cycles run: 1755

Number of cycles run: 6823

Number of cycles run: 4273

Number of cycles run: 12935

Number of cycles run: 18524

Number of cycles run: 5468

Number of cycles run: 23310

Number of cycles run: 50000

Number of cycles run: 1625

Number of cycles run: 50000

Number of cycles run: 2127

Number of cycles run: 2926

Number of cycles run: 1972

Number of cycles run: 6911

Number of cycles run: 10383

Number of cycles run: 3614

Number of cycles run: 1401

Number of cycles run: 21964

Number of cycles run: 42178

Number of cycles run: 1870

Number of cycles run: 2263

Number of cycles run: 50000

Number of cycles run: 733

Number of cycles run: 603

Number of cycles run: 7120

Number of cycles run: 4914

Number of cycles run: 1849

Number of cycles run: 1888

Number of cycles run: 9595

Number of cycles run: 393

Number of cycles run: 3751

Number of cycles run: 14123

Number of cycles run: 4417

Number of cycles run: 5077

Number of cycles run: 3313

Number of cycles run: 3867

Number of cycles run: 826

Number of cycles run: 4725

Number of cycles run: 3635

Number of cycles run: 3552

Number of cycles run: 2882

Number of cycles run: 47621

Number of cycles run: 3246

Number of cycles run: 870

Number of cycles run: 1043

Number of cycles run: 3306

Number of cycles run: 50000

Number of cycles run: 1314

Number of cycles run: 1051

Number of cycles run: 50000

Number of cycles run: 836

Number of cycles run: 2022

Number of cycles run: 34360

Number of cycles run: 2516

Number of cycles run: 9351

Number of cycles run: 2347

Number of cycles run: 810

Number of cycles run: 3947

Number of cycles run: 3786

Number of cycles run: 50000

Number of cycles run: 589

Number of cycles run: 5085

Number of cycles run: 2929

Number of cycles run: 663

Number of cycles run: 6017

Number of cycles run: 50000

Number of cycles run: 3301

Number of cycles run: 2580

Number of cycles run: 15312

Number of cycles run: 1180

Number of cycles run: 3014

Number of cycles run: 1136

Number of cycles run: 698

Number of cycles run: 2854

Number of cycles run: 3286

Number of cycles run: 1094

Number of cycles run: 3830

Number of cycles run: 1600

Av cycles for repulsion strength 5 is 10458

standard diviation is 15949.7913069

Testing average cycles for repulsion strength 5

Number of cycles run: 46092

Number of cycles run: 7460

Number of cycles run: 1544

Number of cycles run: 4282

Number of cycles run: 9570

Number of cycles run: 4955

Number of cycles run: 4779

Number of cycles run: 4294

Number of cycles run: 3962

Number of cycles run: 2209

Number of cycles run: 2766

Number of cycles run: 10197

Number of cycles run: 1325

Number of cycles run: 5563

Number of cycles run: 3290

Number of cycles run: 10300

Number of cycles run: 2152

Number of cycles run: 3759

Number of cycles run: 3756

Number of cycles run: 50000

Number of cycles run: 994

Number of cycles run: 3550

Number of cycles run: 2847

Number of cycles run: 2329

Number of cycles run: 2603

Number of cycles run: 4203

Number of cycles run: 5548

Number of cycles run: 2155

Number of cycles run: 8682

Number of cycles run: 10054

Number of cycles run: 669

Number of cycles run: 1779

Number of cycles run: 5706

Number of cycles run: 10105

Number of cycles run: 3644

Number of cycles run: 5230

Number of cycles run: 1856

Number of cycles run: 509

Number of cycles run: 4048

Number of cycles run: 9143

Number of cycles run: 3339

Number of cycles run: 4093

Number of cycles run: 648

Number of cycles run: 4667

Number of cycles run: 39978

Number of cycles run: 1645

Number of cycles run: 968

Number of cycles run: 3918

Number of cycles run: 4657

Number of cycles run: 22266

Number of cycles run: 5863

Number of cycles run: 2844

Number of cycles run: 901

Number of cycles run: 1400

Number of cycles run: 2138

Number of cycles run: 458

Number of cycles run: 1427

Number of cycles run: 1663

Number of cycles run: 4240

Number of cycles run: 3118

Number of cycles run: 4163

Number of cycles run: 38009

Number of cycles run: 12498

Number of cycles run: 1307

Number of cycles run: 50000

Number of cycles run: 4622

Number of cycles run: 3740

Number of cycles run: 9676

Number of cycles run: 804

Number of cycles run: 9637

Number of cycles run: 2424

Number of cycles run: 1213

Number of cycles run: 3065

Number of cycles run: 50000

Number of cycles run: 3054

Number of cycles run: 7081

Number of cycles run: 1008

Number of cycles run: 50000

Number of cycles run: 4814

Number of cycles run: 2163

Number of cycles run: 5359

Number of cycles run: 3996

Number of cycles run: 1288

Number of cycles run: 577

Number of cycles run: 719

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6015

Number of cycles run: 2212

Number of cycles run: 2317

Number of cycles run: 906

Number of cycles run: 1298

Number of cycles run: 3473

Number of cycles run: 984

Number of cycles run: 7368

Number of cycles run: 50000

Number of cycles run: 2501

Number of cycles run: 964

Number of cycles run: 42829

Number of cycles run: 5513

Av cycles for repulsion strength 5 is 8757

standard diviation is 13962.4359946

Testing average cycles for repulsion strength 5

Number of cycles run: 3244

Number of cycles run: 10991

Number of cycles run: 6731

Number of cycles run: 2899

Number of cycles run: 991

Number of cycles run: 5762

Number of cycles run: 412

Number of cycles run: 2340

Number of cycles run: 50000

Number of cycles run: 539

Number of cycles run: 2316

Number of cycles run: 7744

Number of cycles run: 3098

Number of cycles run: 1644

Number of cycles run: 3186

Number of cycles run: 3018

Number of cycles run: 3476

Number of cycles run: 50000

Number of cycles run: 3698

Number of cycles run: 3478

Number of cycles run: 813

Number of cycles run: 3832

Number of cycles run: 10451

Number of cycles run: 50000

Number of cycles run: 727

Number of cycles run: 2366

Number of cycles run: 4329

Number of cycles run: 4381

Number of cycles run: 2800

Number of cycles run: 9595

Number of cycles run: 2171

Number of cycles run: 12037

Number of cycles run: 3438

Number of cycles run: 7578

Number of cycles run: 5990

Number of cycles run: 36684

Number of cycles run: 526

Number of cycles run: 5386

Number of cycles run: 5877

Number of cycles run: 2296

Number of cycles run: 2023

Number of cycles run: 3106

Number of cycles run: 4492

Number of cycles run: 2171

Number of cycles run: 5015

Number of cycles run: 3544

Number of cycles run: 9356

Number of cycles run: 17640

Number of cycles run: 5852

Number of cycles run: 660

Number of cycles run: 50000

Number of cycles run: 774

Number of cycles run: 4959

Number of cycles run: 16574

Number of cycles run: 1413

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1674

Number of cycles run: 14452

Number of cycles run: 6341

Number of cycles run: 50000

Number of cycles run: 6753

Number of cycles run: 1822

Number of cycles run: 42421

Number of cycles run: 5376

Number of cycles run: 4821

Number of cycles run: 6616

Number of cycles run: 893

Number of cycles run: 3128

Number of cycles run: 921

Number of cycles run: 1280

Number of cycles run: 402

Number of cycles run: 3792

Number of cycles run: 50000

Number of cycles run: 2382

Number of cycles run: 439

Number of cycles run: 2313

Number of cycles run: 608

Number of cycles run: 3922

Number of cycles run: 564

Number of cycles run: 8126

Number of cycles run: 24248

Number of cycles run: 1681

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 15304

Number of cycles run: 3019

Number of cycles run: 1632

Number of cycles run: 2968

Number of cycles run: 7779

Number of cycles run: 1551

Number of cycles run: 50000

Number of cycles run: 7145

Number of cycles run: 50000

Number of cycles run: 1016

Number of cycles run: 607

Number of cycles run: 3420

Number of cycles run: 491

Number of cycles run: 1589

Number of cycles run: 2533

Av cycles for repulsion strength 5 is 10584

standard diviation is 15956.1891063

Testing average cycles for repulsion strength 5

Number of cycles run: 2792

Number of cycles run: 1191

Number of cycles run: 4152

Number of cycles run: 2937

Number of cycles run: 2530

Number of cycles run: 1090

Number of cycles run: 3245

Number of cycles run: 2701

Number of cycles run: 1820

Number of cycles run: 625

Number of cycles run: 1239

Number of cycles run: 3194

Number of cycles run: 29239

Number of cycles run: 5867

Number of cycles run: 597

Number of cycles run: 1778

Number of cycles run: 623

Number of cycles run: 2144

Number of cycles run: 1187

Number of cycles run: 9994

Number of cycles run: 3069

Number of cycles run: 50000

Number of cycles run: 969

Number of cycles run: 1136

Number of cycles run: 2159

Number of cycles run: 50000

Number of cycles run: 7192

Number of cycles run: 2497

Number of cycles run: 3994

Number of cycles run: 934

Number of cycles run: 3037

Number of cycles run: 1727

Number of cycles run: 3472

Number of cycles run: 785

Number of cycles run: 50000

Number of cycles run: 2226

Number of cycles run: 5811

Number of cycles run: 834

Number of cycles run: 2372

Number of cycles run: 2651

Number of cycles run: 7170

Number of cycles run: 4786

Number of cycles run: 15026

Number of cycles run: 18855

Number of cycles run: 3132

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 5742

Number of cycles run: 4241

Number of cycles run: 20450

Number of cycles run: 4259

Number of cycles run: 556

Number of cycles run: 6680

Number of cycles run: 7390

Number of cycles run: 3635

Number of cycles run: 7107

Number of cycles run: 1842

Number of cycles run: 2516

Number of cycles run: 424

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 19169

Number of cycles run: 2609

Number of cycles run: 4899

Number of cycles run: 3135

Number of cycles run: 2306

Number of cycles run: 2703

Number of cycles run: 4415

Number of cycles run: 50000

Number of cycles run: 4863

Number of cycles run: 6102

Number of cycles run: 43835

Number of cycles run: 4201

Number of cycles run: 2115

Number of cycles run: 5322

Number of cycles run: 2769

Number of cycles run: 50000

Number of cycles run: 5618

Number of cycles run: 3160

Number of cycles run: 868

Number of cycles run: 8568

Number of cycles run: 5128

Number of cycles run: 18148

Number of cycles run: 2593

Number of cycles run: 3625

Number of cycles run: 6607

Number of cycles run: 36031

Number of cycles run: 3531

Number of cycles run: 769

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 6010

Number of cycles run: 3317

Number of cycles run: 2291

Number of cycles run: 2259

Number of cycles run: 4066

Number of cycles run: 690

Number of cycles run: 1275

Number of cycles run: 1563

Number of cycles run: 2462

Av cycles for repulsion strength 5 is 10146

standard diviation is 15630.0256579

Testing average cycles for repulsion strength 5

Number of cycles run: 2955

Number of cycles run: 4964

Number of cycles run: 3802

Number of cycles run: 50000

Number of cycles run: 5271

Number of cycles run: 3756

Number of cycles run: 10599

Number of cycles run: 6228

Number of cycles run: 1416

Number of cycles run: 3821

Number of cycles run: 4852

Number of cycles run: 4255

Number of cycles run: 2287

Number of cycles run: 1378

Number of cycles run: 431

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[GCC 7.2.0] on linux

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>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_R6.py =====/6=10700.8333

Testing average cycles for repulsion strength 5

Number of cycles run: 8849

Number of cycles run: 764

Number of cycles run: 4984

Number of cycles run: 50000

Number of cycles run: 2876

Number of cycles run: 9324

Number of cycles run: 3366

Number of cycles run: 22457

Number of cycles run: 4491

Number of cycles run: 4082

Number of cycles run: 1247

Number of cycles run: 1072

Number of cycles run: 1430

Number of cycles run: 1391

Number of cycles run: 3024

Number of cycles run: 2803

Number of cycles run: 518

Number of cycles run: 1178

Number of cycles run: 50000

Number of cycles run: 3651

Number of cycles run: 50000

Number of cycles run: 4535

Number of cycles run: 1440

Number of cycles run: 5509

Number of cycles run: 2158

Number of cycles run: 10086

Number of cycles run: 5655

Number of cycles run: 50000

Number of cycles run: 2560

Number of cycles run: 4728

Number of cycles run: 3220

Number of cycles run: 50000

Number of cycles run: 17385

Number of cycles run: 15346

Number of cycles run: 49966

Number of cycles run: 50000

Number of cycles run: 7160

Number of cycles run: 4380

Number of cycles run: 4939

Number of cycles run: 16207

Number of cycles run: 2436

Number of cycles run: 1681

Number of cycles run: 50000

Number of cycles run: 2501

Number of cycles run: 2893

Number of cycles run: 3339

Number of cycles run: 2374

Number of cycles run: 7494

Number of cycles run: 5564

Number of cycles run: 2751

Number of cycles run: 10374

Number of cycles run: 9245

Number of cycles run: 3407

Number of cycles run: 2978

Number of cycles run: 50000

Number of cycles run: 5484

Number of cycles run: 1174

Number of cycles run: 2663

Number of cycles run: 4054

Number of cycles run: 50000

Number of cycles run: 5462

Number of cycles run: 2464

Number of cycles run: 6719

Number of cycles run: 8338

Number of cycles run: 50000

Number of cycles run: 5780

Number of cycles run: 952

Number of cycles run: 2906

Number of cycles run: 2530

Number of cycles run: 1125

Number of cycles run: 2286

Number of cycles run: 3407

Number of cycles run: 4937

Number of cycles run: 50000

Number of cycles run: 692

Number of cycles run: 4242

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1314

Number of cycles run: 4615

Number of cycles run: 9617

Number of cycles run: 50000

Number of cycles run: 5867

Number of cycles run: 8686

Number of cycles run: 1984

Number of cycles run: 3151

Number of cycles run: 7524

Number of cycles run: 50000

Number of cycles run: 5298

Number of cycles run: 1886

Number of cycles run: 1571

Number of cycles run: 2253

Number of cycles run: 2833

Number of cycles run: 2629

Number of cycles run: 4088

Number of cycles run: 2645

Number of cycles run: 1904

Number of cycles run: 22541

Number of cycles run: 4931

Number of cycles run: 21505

Av cycles for repulsion strength 5 is 12218

standard diviation is 17120.7922114

Testing average cycles for repulsion strength 5

Number of cycles run: 1090

Number of cycles run: 2211

Number of cycles run: 3088

Number of cycles run: 50000

Number of cycles run: 3969

Number of cycles run: 2036

Number of cycles run: 4632

Number of cycles run: 10657

Number of cycles run: 2221

Number of cycles run: 6171

Number of cycles run: 4276

Number of cycles run: 775

Number of cycles run: 578

Number of cycles run: 1884

Number of cycles run: 50000

Number of cycles run: 1508

Number of cycles run: 1294

Number of cycles run: 1558

Number of cycles run: 1642

Number of cycles run: 5832

Number of cycles run: 1722

Number of cycles run: 4529

Number of cycles run: 1445

Number of cycles run: 25279

Number of cycles run: 445

Number of cycles run: 50000

Number of cycles run: 2697

Number of cycles run: 2220

Number of cycles run: 601

Number of cycles run: 2390

Number of cycles run: 1720

Number of cycles run: 3993

Number of cycles run: 4987

Number of cycles run: 793

Number of cycles run: 5464

Number of cycles run: 1456

Number of cycles run: 2225

Number of cycles run: 50000

Number of cycles run: 5373

Number of cycles run: 14336

Number of cycles run: 1830

Number of cycles run: 9212

Number of cycles run: 11677

Number of cycles run: 3590

Number of cycles run: 451

Number of cycles run: 50000

Number of cycles run: 4734

Number of cycles run: 1418

Number of cycles run: 50000

Number of cycles run: 9610

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2187

Number of cycles run: 5218

Number of cycles run: 927

Number of cycles run: 2257

Number of cycles run: 50000

Number of cycles run: 7861

Number of cycles run: 511

Number of cycles run: 2475

Number of cycles run: 8299

Number of cycles run: 5679

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 10756

Number of cycles run: 1067

Number of cycles run: 2543

Number of cycles run: 44889

Number of cycles run: 50000

Number of cycles run: 1783

Number of cycles run: 5241

Number of cycles run: 7156

Number of cycles run: 1902

Number of cycles run: 1896

Number of cycles run: 1474

Number of cycles run: 3132

Number of cycles run: 50000

Number of cycles run: 17244

Number of cycles run: 1863

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 10196

Number of cycles run: 5256

Number of cycles run: 27891

Number of cycles run: 2867

Number of cycles run: 2354

Number of cycles run: 1551

Number of cycles run: 7173

Number of cycles run: 4873

Number of cycles run: 1087

Number of cycles run: 28911

Number of cycles run: 5177

Number of cycles run: 10715

Number of cycles run: 2301

Number of cycles run: 3472

Number of cycles run: 1870

Number of cycles run: 3556

Number of cycles run: 6430

Number of cycles run: 8484

Number of cycles run: 4079

Av cycles for repulsion strength 5 is 12042

standard diviation is 17268.3878021

Testing average cycles for repulsion strength 5

Number of cycles run: 787

Number of cycles run: 50000

Number of cycles run: 2266

Number of cycles run: 1762

Number of cycles run: 719

Number of cycles run: 2224

Number of cycles run: 2371

Number of cycles run: 1930

Number of cycles run: 4524

Number of cycles run: 50000

Number of cycles run: 8558

Number of cycles run: 1841

Number of cycles run: 1365

Number of cycles run: 14272

Number of cycles run: 6050

Number of cycles run: 5903

Number of cycles run: 2941

Number of cycles run: 2635

Number of cycles run: 37936

Number of cycles run: 632

Number of cycles run: 8200

Number of cycles run: 2761

Number of cycles run: 5895

Number of cycles run: 2512

Number of cycles run: 50000

Number of cycles run: 5937

Number of cycles run: 584

Number of cycles run: 50000

Number of cycles run: 3956

Number of cycles run: 693

Number of cycles run: 3181

Number of cycles run: 50000

Number of cycles run: 1492

Number of cycles run: 28793

Number of cycles run: 1901

Number of cycles run: 4784

Number of cycles run: 50000

Number of cycles run: 3178

Number of cycles run: 2467

Number of cycles run: 2989

Number of cycles run: 5014

Number of cycles run: 825

Number of cycles run: 2982

Number of cycles run: 2215

Number of cycles run: 3131

Number of cycles run: 3997

Number of cycles run: 13049

Number of cycles run: 8980

Number of cycles run: 5956

Number of cycles run: 2425

Number of cycles run: 1139

Number of cycles run: 1881

Number of cycles run: 623

Number of cycles run: 6550

Number of cycles run: 49661

Number of cycles run: 1269

Number of cycles run: 475

Number of cycles run: 4965

Number of cycles run: 3294

Number of cycles run: 4256

Number of cycles run: 1912

Number of cycles run: 1235

Number of cycles run: 2662

Number of cycles run: 20589

Number of cycles run: 2142

Number of cycles run: 7440

Number of cycles run: 758

Number of cycles run: 5260

Number of cycles run: 50000

Number of cycles run: 2514

Number of cycles run: 5245

Number of cycles run: 4085

Number of cycles run: 2065

Number of cycles run: 2947

Number of cycles run: 2098

Number of cycles run: 2566

Number of cycles run: 11166

Number of cycles run: 1850

Number of cycles run: 1122

Number of cycles run: 3566

Number of cycles run: 1102

Number of cycles run: 2854

Number of cycles run: 1312

Number of cycles run: 3765

Number of cycles run: 2832

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>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_R4.py =====

Testing average cycles for repulsion strength 5

Number of cycles run: 50000

Number of cycles run: 22451

Number of cycles run: 8071

Number of cycles run: 2374

Number of cycles run: 42573

Number of cycles run: 3344

Number of cycles run: 50000

Number of cycles run: 2595

Number of cycles run: 23261

Number of cycles run: 1711

Number of cycles run: 22073

Number of cycles run: 5031

Number of cycles run: 20575

Number of cycles run: 7949

Number of cycles run: 3598

Number of cycles run: 3971

Number of cycles run: 2344

Number of cycles run: 9505

Number of cycles run: 4136

Number of cycles run: 50000

Number of cycles run: 19802

Number of cycles run: 10573

Number of cycles run: 11155

Number of cycles run: 4804

Number of cycles run: 10832

Number of cycles run: 2952

Number of cycles run: 50000

Number of cycles run: 3014

Number of cycles run: 10010

Number of cycles run: 3398

Number of cycles run: 8349

Number of cycles run: 3053

Number of cycles run: 4435

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4203

Number of cycles run: 1363

Number of cycles run: 50000

Number of cycles run: 43155

Number of cycles run: 17242

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2361

Number of cycles run: 5620

Number of cycles run: 6388

Number of cycles run: 3833

Number of cycles run: 6009

Number of cycles run: 3889

Number of cycles run: 3901

Number of cycles run: 50000

Number of cycles run: 4301

Number of cycles run: 50000

Number of cycles run: 6333

Number of cycles run: 1474

Number of cycles run: 5807

Number of cycles run: 10813

Number of cycles run: 3660

Number of cycles run: 2261

Number of cycles run: 4221

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3550

Number of cycles run: 10205

Number of cycles run: 39928

Number of cycles run: 3952

Number of cycles run: 10664

Number of cycles run: 3392

Number of cycles run: 2701

Number of cycles run: 2862

Number of cycles run: 1642

Number of cycles run: 14288

Number of cycles run: 4469

Number of cycles run: 8193

Number of cycles run: 3214

Number of cycles run: 12481

Number of cycles run: 5233

Number of cycles run: 4606

Number of cycles run: 8121

Number of cycles run: 11183

Number of cycles run: 6126

Number of cycles run: 1048

Number of cycles run: 2961

Number of cycles run: 6108

Number of cycles run: 6414

Number of cycles run: 1314

Number of cycles run: 2893

Number of cycles run: 9452

Number of cycles run: 11845

Number of cycles run: 6648

Number of cycles run: 6150

Number of cycles run: 50000

Number of cycles run: 2894

Number of cycles run: 26198

Number of cycles run: 22146

Number of cycles run: 3594

Number of cycles run: 6470

Number of cycles run: 3757

Number of cycles run: 4047

Number of cycles run: 10039

Number of cycles run: 50000

Av cycles for repulsion strength 5 is 14555

standard diviation is 16928.8836571

Testing average cycles for repulsion strength 5

Number of cycles run: 2103

Number of cycles run: 4564

Number of cycles run: 8061

Number of cycles run: 2189

Number of cycles run: 12303

Number of cycles run: 14469

Number of cycles run: 9252

Number of cycles run: 1670

Number of cycles run: 21053

Number of cycles run: 4439

Number of cycles run: 1660

Number of cycles run: 4415

Number of cycles run: 1889

Number of cycles run: 5056

Number of cycles run: 7548

Number of cycles run: 24038

Number of cycles run: 4011

Number of cycles run: 6810

Number of cycles run: 4043

Number of cycles run: 5253

Number of cycles run: 5314

Number of cycles run: 8467

Number of cycles run: 10534

Number of cycles run: 15564

Number of cycles run: 12870

Number of cycles run: 1399

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 10343

Number of cycles run: 50000

Number of cycles run: 12497

Number of cycles run: 50000

Number of cycles run: 2172

Number of cycles run: 13407

Number of cycles run: 50000

Number of cycles run: 2754

Number of cycles run: 12208

Number of cycles run: 37509

Number of cycles run: 9312

Number of cycles run: 50000

Number of cycles run: 5591

Number of cycles run: 2764

Number of cycles run: 3282

Number of cycles run: 50000

Number of cycles run: 10686

Number of cycles run: 3236

Number of cycles run: 6969

Number of cycles run: 3829

Number of cycles run: 2045

Number of cycles run: 5315

Number of cycles run: 50000

Number of cycles run: 8058

Number of cycles run: 18209

Number of cycles run: 3244

Number of cycles run: 5558

Number of cycles run: 3477

Number of cycles run: 4315

Number of cycles run: 5501

Number of cycles run: 8171

Number of cycles run: 14823

Number of cycles run: 50000

Number of cycles run: 3606

Number of cycles run: 50000

Number of cycles run: 5422

Number of cycles run: 41736

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 7871

Number of cycles run: 2905

Number of cycles run: 50000

Number of cycles run: 6177

Number of cycles run: 7883

Number of cycles run: 4718

Number of cycles run: 50000

Number of cycles run: 3043

Number of cycles run: 6313

Number of cycles run: 8878

Number of cycles run: 50000

Number of cycles run: 17210

Number of cycles run: 4852

Number of cycles run: 7957

Number of cycles run: 46521

Number of cycles run: 2517

Number of cycles run: 10196

Number of cycles run: 4464

Number of cycles run: 14760

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 5522

Number of cycles run: 2138

Number of cycles run: 26434

Number of cycles run: 50000

Number of cycles run: 2680

Number of cycles run: 4357

Number of cycles run: 30517

Number of cycles run: 5497

Number of cycles run: 47400

Number of cycles run: 2271

Av cycles for repulsion strength 5 is 17480

standard diviation is 18529.0344299

Testing average cycles for repulsion strength 5

Number of cycles run: 4807

Number of cycles run: 6025

Number of cycles run: 50000

Number of cycles run: 3784

Number of cycles run: 27532

Number of cycles run: 13370

Number of cycles run: 3644

Number of cycles run: 2142

Number of cycles run: 5739

Number of cycles run: 50000

Number of cycles run: 31468

Number of cycles run: 50000

Number of cycles run: 5447

Number of cycles run: 2314

Number of cycles run: 8976

Number of cycles run: 41314

Number of cycles run: 3479

Number of cycles run: 22194

Number of cycles run: 1579

Number of cycles run: 50000

Number of cycles run: 4173

Number of cycles run: 19904

Number of cycles run: 5703

Number of cycles run: 1545

Number of cycles run: 7215

Number of cycles run: 2373

Number of cycles run: 5812

Number of cycles run: 5236

Number of cycles run: 4806

Number of cycles run: 8608

Number of cycles run: 50000

Number of cycles run: 5042

Number of cycles run: 3936

Number of cycles run: 2114

Number of cycles run: 50000

Number of cycles run: 19940

Number of cycles run: 3851

Number of cycles run: 50000

Number of cycles run: 3083

Number of cycles run: 31358

Number of cycles run: 2277

Number of cycles run: 50000

Number of cycles run: 4871

Number of cycles run: 2785

Number of cycles run: 2107

Number of cycles run: 3844

Number of cycles run: 1953

Number of cycles run: 50000

Number of cycles run: 4032

Number of cycles run: 2816

Number of cycles run: 2347

Number of cycles run: 2431

Number of cycles run: 17165

Number of cycles run: 2366

Number of cycles run: 5549

Number of cycles run: 2670

Number of cycles run: 50000

Number of cycles run: 2081

Number of cycles run: 3872

Number of cycles run: 11479

Number of cycles run: 5952

Number of cycles run: 10883

Number of cycles run: 5154

Number of cycles run: 16600

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 8412

Number of cycles run: 50000

Number of cycles run: 5112

Number of cycles run: 4501

Number of cycles run: 8771

Number of cycles run: 4782

Number of cycles run: 3526

Number of cycles run: 12024

Number of cycles run: 3453

Number of cycles run: 18094

Number of cycles run: 5115

Number of cycles run: 1681

Number of cycles run: 3673

Number of cycles run: 4625

Number of cycles run: 4199

Number of cycles run: 2293

Number of cycles run: 5348

Number of cycles run: 39726

Number of cycles run: 5190

Number of cycles run: 3515

Number of cycles run: 1721

Number of cycles run: 1256

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 13942

Number of cycles run: 3719

Number of cycles run: 12900

Number of cycles run: 9738

Number of cycles run: 50000

Number of cycles run: 2021

Number of cycles run: 8068

Number of cycles run: 4044

Number of cycles run: 3888

Av cycles for repulsion strength 5 is 14870

standard diviation is 17679.3636762

Testing average cycles for repulsion strength 5

Number of cycles run: 5396

Number of cycles run: 50000

Number of cycles run: 21581

Number of cycles run: 1600

Number of cycles run: 50000

Number of cycles run: 34085

Number of cycles run: 10554

Number of cycles run: 2961

Number of cycles run: 8092

Number of cycles run: 50000

Number of cycles run: 3891

Number of cycles run: 3850

Number of cycles run: 3217

Number of cycles run: 12559

Number of cycles run: 1736

Number of cycles run: 4043

Number of cycles run: 3352

Number of cycles run: 9607

Number of cycles run: 3785