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\_R4.py =====

Testing average cycles for repulsion strength 3

Number of cycles run: 4247

Number of cycles run: 1811

Number of cycles run: 1749

Number of cycles run: 3936

Number of cycles run: 16258

Number of cycles run: 6361

Number of cycles run: 791

Number of cycles run: 3442

Number of cycles run: 2375

Number of cycles run: 5362

Number of cycles run: 3024

Number of cycles run: 26540

Number of cycles run: 4154

Number of cycles run: 20145

Number of cycles run: 2801

Number of cycles run: 3159

Number of cycles run: 50000

Number of cycles run: 5858

Number of cycles run: 1943

Number of cycles run: 50000

Number of cycles run: 5906

Number of cycles run: 2217

Number of cycles run: 2365

Number of cycles run: 2931

Number of cycles run: 2243

Number of cycles run: 1594

Number of cycles run: 10924

Number of cycles run: 3664

Number of cycles run: 4831

Number of cycles run: 6403

Number of cycles run: 3654

Number of cycles run: 2264

Number of cycles run: 2316

Number of cycles run: 9495

Number of cycles run: 4231

Number of cycles run: 14134

Number of cycles run: 4891

Number of cycles run: 2628

Number of cycles run: 4396

Number of cycles run: 3784

Number of cycles run: 4079

Number of cycles run: 2704

Number of cycles run: 5734

Number of cycles run: 2761

Number of cycles run: 29158

Number of cycles run: 908

Number of cycles run: 7806

Number of cycles run: 5352

Number of cycles run: 3526

Number of cycles run: 4424

Number of cycles run: 40366

Number of cycles run: 15089

Number of cycles run: 3562

Number of cycles run: 2587

Number of cycles run: 14366

Number of cycles run: 5180

Number of cycles run: 4234

Number of cycles run: 50000

Number of cycles run: 6782

Number of cycles run: 6553

Number of cycles run: 4660

Number of cycles run: 1513

Number of cycles run: 14711

Number of cycles run: 2318

Number of cycles run: 50000

Number of cycles run: 40021

Number of cycles run: 9054

Number of cycles run: 2002

Number of cycles run: 50000

Number of cycles run: 4656

Number of cycles run: 1129

Number of cycles run: 3525

Number of cycles run: 2104

Number of cycles run: 769

Number of cycles run: 3871

Number of cycles run: 50000

Number of cycles run: 4946

Number of cycles run: 50000

Number of cycles run: 1609

Number of cycles run: 3185

Number of cycles run: 2070

Number of cycles run: 645

Number of cycles run: 3533

Number of cycles run: 2978

Number of cycles run: 5818

Number of cycles run: 2499

Number of cycles run: 973

Number of cycles run: 3276

Number of cycles run: 2054

Number of cycles run: 50000

Number of cycles run: 1134

Number of cycles run: 1944

Number of cycles run: 3976

Number of cycles run: 783

Number of cycles run: 50000

Number of cycles run: 2943

Number of cycles run: 42526

Number of cycles run: 5893

Number of cycles run: 1063

Number of cycles run: 1446

Av cycles for repulsion strength 3 is 10096

standard diviation is 14833.628728

Testing average cycles for repulsion strength 3

Number of cycles run: 1066

Number of cycles run: 1463

Number of cycles run: 3251

Number of cycles run: 2506

Number of cycles run: 1773

Number of cycles run: 3065

Number of cycles run: 1278

Number of cycles run: 1825

Number of cycles run: 3870

Number of cycles run: 50000

Number of cycles run: 3050

Number of cycles run: 1560

Number of cycles run: 50000

Number of cycles run: 4605

Number of cycles run: 8077

Number of cycles run: 14129

Number of cycles run: 8511

Number of cycles run: 3228

Number of cycles run: 4204

Number of cycles run: 3111

Number of cycles run: 8596

Number of cycles run: 1223

Number of cycles run: 1720

Number of cycles run: 6709

Number of cycles run: 2689

Number of cycles run: 2136

Number of cycles run: 509

Number of cycles run: 929

Number of cycles run: 13615

Number of cycles run: 40651

Number of cycles run: 2139

Number of cycles run: 2549

Number of cycles run: 50000

Number of cycles run: 3531

Number of cycles run: 3916

Number of cycles run: 2671

Number of cycles run: 1740

Number of cycles run: 3742

Number of cycles run: 12482

Number of cycles run: 5069

Number of cycles run: 50000

Number of cycles run: 3055

Number of cycles run: 518

Number of cycles run: 621

Number of cycles run: 4858

Number of cycles run: 32590

Number of cycles run: 24531

Number of cycles run: 3911

Number of cycles run: 7125

Number of cycles run: 3786

Number of cycles run: 1854

Number of cycles run: 1298

Number of cycles run: 2258

Number of cycles run: 5111

Number of cycles run: 3144

Number of cycles run: 18532

Number of cycles run: 767

Number of cycles run: 47559

Number of cycles run: 1161

Number of cycles run: 3402

Number of cycles run: 5376

Number of cycles run: 3144

Number of cycles run: 8739

Number of cycles run: 3059

Number of cycles run: 2069

Number of cycles run: 10461

Number of cycles run: 1447

Number of cycles run: 14213

Number of cycles run: 1535

Number of cycles run: 4032

Number of cycles run: 1761

Number of cycles run: 2786

Number of cycles run: 7851

Number of cycles run: 386

Number of cycles run: 3414

Number of cycles run: 5946

Number of cycles run: 8021

Number of cycles run: 4813

Number of cycles run: 656

Number of cycles run: 4112

Number of cycles run: 1646

Number of cycles run: 3212

Number of cycles run: 539

Number of cycles run: 50000

Number of cycles run: 5909

Number of cycles run: 4251

Number of cycles run: 11079

Number of cycles run: 707

Number of cycles run: 999

Number of cycles run: 2238

Number of cycles run: 35193

Number of cycles run: 6612

Number of cycles run: 9301

Number of cycles run: 1033

Number of cycles run: 574

Number of cycles run: 11023

Number of cycles run: 50000

Number of cycles run: 2846

Number of cycles run: 1135

Number of cycles run: 1848

Av cycles for repulsion strength 3 is 8472

standard diviation is 13230.5127582

Testing average cycles for repulsion strength 3

Number of cycles run: 1228

Number of cycles run: 7792

Number of cycles run: 2074

Number of cycles run: 6270

Number of cycles run: 649

Number of cycles run: 21640

Number of cycles run: 1244

Number of cycles run: 26020

Number of cycles run: 1645

Number of cycles run: 16199

Number of cycles run: 1827

Number of cycles run: 3533

Number of cycles run: 9709

Number of cycles run: 1741

Number of cycles run: 9651

Number of cycles run: 19442

Number of cycles run: 4062

Number of cycles run: 2311

Number of cycles run: 2479

Number of cycles run: 1981

Number of cycles run: 2822

Number of cycles run: 3464

Number of cycles run: 3583

Number of cycles run: 2815

Number of cycles run: 2852

Number of cycles run: 4396

Number of cycles run: 2526

Number of cycles run: 1922

Number of cycles run: 5624

Number of cycles run: 4987

Number of cycles run: 2403

Number of cycles run: 47948

Number of cycles run: 1695

Number of cycles run: 2270

Number of cycles run: 2724

Number of cycles run: 2121

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 600

Number of cycles run: 852

Number of cycles run: 50000

Number of cycles run: 2032

Number of cycles run: 22154

Number of cycles run: 1573

Number of cycles run: 7751

Number of cycles run: 3310

Number of cycles run: 1957

Number of cycles run: 7204

Number of cycles run: 8322

Number of cycles run: 50000

Number of cycles run: 31097

Number of cycles run: 9323

Number of cycles run: 25446

Number of cycles run: 50000

Number of cycles run: 2974

Number of cycles run: 50000

Number of cycles run: 7562

Number of cycles run: 5063

Number of cycles run: 50000

Number of cycles run: 2184

Number of cycles run: 1625

Number of cycles run: 444

Number of cycles run: 15211

Number of cycles run: 50000

Number of cycles run: 6223

Number of cycles run: 4000

Number of cycles run: 455

Number of cycles run: 2439

Number of cycles run: 3520

Number of cycles run: 437

Number of cycles run: 2819

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 1555

Number of cycles run: 2916

Number of cycles run: 6324

Number of cycles run: 2049

Number of cycles run: 4229

Number of cycles run: 4167

Number of cycles run: 2516

Number of cycles run: 1256

Number of cycles run: 2256

Number of cycles run: 10149

Number of cycles run: 2676

Number of cycles run: 1735

Number of cycles run: 2210

Number of cycles run: 2193

Number of cycles run: 3396

Number of cycles run: 460

Number of cycles run: 950

Number of cycles run: 50000

Number of cycles run: 4839

Number of cycles run: 6793

Number of cycles run: 4290

Number of cycles run: 6727

Number of cycles run: 4463

Number of cycles run: 2804

Number of cycles run: 3252

Number of cycles run: 11682

Number of cycles run: 7008

Av cycles for repulsion strength 3 is 10651

standard diviation is 15619.5609021

Testing average cycles for repulsion strength 3

Number of cycles run: 50000

Number of cycles run: 2586

Number of cycles run: 12046

Number of cycles run: 2237

Number of cycles run: 13726

Number of cycles run: 3291

Number of cycles run: 9104

Number of cycles run: 4449

Number of cycles run: 1314

Number of cycles run: 447

Number of cycles run: 50000

Number of cycles run: 4421

Number of cycles run: 5070

Number of cycles run: 2837

Number of cycles run: 2885

Number of cycles run: 50000

Number of cycles run: 1035

Number of cycles run: 3515

Number of cycles run: 3467

Number of cycles run: 5002

Number of cycles run: 2907

Number of cycles run: 4805

Number of cycles run: 1048

Number of cycles run: 7436

Number of cycles run: 50000

Number of cycles run: 2862

Number of cycles run: 2612

Number of cycles run: 2800

Number of cycles run: 5278

Number of cycles run: 1465

Number of cycles run: 1651

Number of cycles run: 411

Number of cycles run: 1583

Number of cycles run: 6633

Number of cycles run: 395

Number of cycles run: 2438

Number of cycles run: 4391

Number of cycles run: 50000

Number of cycles run: 2359

Number of cycles run: 6641

Number of cycles run: 2157

Number of cycles run: 4267

Number of cycles run: 38056

Number of cycles run: 4046

Number of cycles run: 50000

Number of cycles run: 2009

Number of cycles run: 5473

Number of cycles run: 50000

Number of cycles run: 11733

Number of cycles run: 450

Number of cycles run: 50000

Number of cycles run: 445

Number of cycles run: 2348

Number of cycles run: 15726

Number of cycles run: 1258

Number of cycles run: 3387

Number of cycles run: 6276

Number of cycles run: 3201

Number of cycles run: 4363

Number of cycles run: 4306

Number of cycles run: 600

Number of cycles run: 16204

Number of cycles run: 50000

Number of cycles run: 4181

Number of cycles run: 3532

Number of cycles run: 4486

Number of cycles run: 2781

Number of cycles run: 1225

Number of cycles run: 507

Number of cycles run: 2219

Number of cycles run: 8393

Number of cycles run: 3304

Number of cycles run: 6042

Number of cycles run: 15456

Number of cycles run: 1406

Number of cycles run: 3238

Number of cycles run: 2287

Number of cycles run: 2790

Number of cycles run: 3498

Number of cycles run: 2260

Number of cycles run: 6616

Number of cycles run: 3033

Number of cycles run: 1858

Number of cycles run: 2303

Number of cycles run: 50000

Number of cycles run: 654

Number of cycles run: 678

Number of cycles run: 7495

Number of cycles run: 900

Number of cycles run: 50000

Number of cycles run: 3812

Number of cycles run: 8192

Number of cycles run: 13229

Number of cycles run: 36148

Number of cycles run: 3231

Number of cycles run: 5007

Number of cycles run: 1705

Number of cycles run: 8419

Number of cycles run: 3492

Number of cycles run: 50000

Av cycles for repulsion strength 3 is 10358

standard diviation is 15780.239441

Testing average cycles for repulsion strength 3

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 =====/7=10571.14

Testing average cycles for repulsion strength 3

Number of cycles run: 860

Number of cycles run: 2488

Number of cycles run: 2884

Number of cycles run: 17519

Number of cycles run: 7277

Number of cycles run: 1718

Number of cycles run: 1053

Number of cycles run: 6925

Number of cycles run: 5172

Number of cycles run: 7164

Number of cycles run: 4791

Number of cycles run: 18357

Number of cycles run: 3764

Number of cycles run: 1784

Number of cycles run: 4987

Number of cycles run: 8487

Number of cycles run: 525

Number of cycles run: 50000

Number of cycles run: 8203

Number of cycles run: 6377

Number of cycles run: 50000

Number of cycles run: 417

Number of cycles run: 3906

Number of cycles run: 3241

Number of cycles run: 2970

Number of cycles run: 50000

Number of cycles run: 12533

Number of cycles run: 1141

Number of cycles run: 1696

Number of cycles run: 3010

Number of cycles run: 3533

Number of cycles run: 4569

Number of cycles run: 2808

Number of cycles run: 2014

Number of cycles run: 5599

Number of cycles run: 863

Number of cycles run: 1273

Number of cycles run: 7382

Number of cycles run: 50000

Number of cycles run: 2241

Number of cycles run: 7610

Number of cycles run: 2541

Number of cycles run: 50000

Number of cycles run: 4617

Number of cycles run: 8884

Number of cycles run: 50000

Number of cycles run: 34513

Number of cycles run: 1698

Number of cycles run: 1211

Number of cycles run: 14200

Number of cycles run: 1888

Number of cycles run: 774

Number of cycles run: 1826

Number of cycles run: 50000

Number of cycles run: 3057

Number of cycles run: 6812

Number of cycles run: 2389

Number of cycles run: 4363

Number of cycles run: 6548

Number of cycles run: 16771

Number of cycles run: 5374

Number of cycles run: 3250

Number of cycles run: 3920

Number of cycles run: 3486

Number of cycles run: 4801

Number of cycles run: 19580

Number of cycles run: 1613

Number of cycles run: 11970

Number of cycles run: 1409

Number of cycles run: 16894

Number of cycles run: 17509

Number of cycles run: 6128

Number of cycles run: 4435

Number of cycles run: 34303

Number of cycles run: 2830

Number of cycles run: 3336

Number of cycles run: 9462

Number of cycles run: 561

Number of cycles run: 7826

Number of cycles run: 5531

Number of cycles run: 3850

Number of cycles run: 1959

Number of cycles run: 7193

Number of cycles run: 3373

Number of cycles run: 19277

Number of cycles run: 8599

Number of cycles run: 4195

Number of cycles run: 15354

Number of cycles run: 3588

Number of cycles run: 3654

Number of cycles run: 31295

Number of cycles run: 28588

Number of cycles run: 1194

Number of cycles run: 50000

Number of cycles run: 2932

Number of cycles run: 2555

Number of cycles run: 1025

Number of cycles run: 50000

Number of cycles run: 3882

Number of cycles run: 50000

Av cycles for repulsion strength 3 is 10959

standard diviation is 14797.5923912

Testing average cycles for repulsion strength 3

Number of cycles run: 4822

Number of cycles run: 1663

Number of cycles run: 1215

Number of cycles run: 43121

Number of cycles run: 1086

Number of cycles run: 31691

Number of cycles run: 2665

Number of cycles run: 4837

Number of cycles run: 7481

Number of cycles run: 23728

Number of cycles run: 9872

Number of cycles run: 18557

Number of cycles run: 1302

Number of cycles run: 5800

Number of cycles run: 8717

Number of cycles run: 1402

Number of cycles run: 2005

Number of cycles run: 445

Number of cycles run: 2248

Number of cycles run: 456

Number of cycles run: 1170

Number of cycles run: 1046

Number of cycles run: 50000

Number of cycles run: 4711

Number of cycles run: 30454

Number of cycles run: 572

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2510

Number of cycles run: 2830

Number of cycles run: 4435

Number of cycles run: 2157

Number of cycles run: 39468

Number of cycles run: 50000

Number of cycles run: 17466

Number of cycles run: 1360

Number of cycles run: 3740

Number of cycles run: 416

Number of cycles run: 8448

Number of cycles run: 6859

Number of cycles run: 3223

Number of cycles run: 8716

Number of cycles run: 1619

Number of cycles run: 29684

Number of cycles run: 8017

Number of cycles run: 6321

Number of cycles run: 1727

Number of cycles run: 3910

Number of cycles run: 50000

Number of cycles run: 2720

Number of cycles run: 810

Number of cycles run: 35028

Number of cycles run: 50000

Number of cycles run: 3243

Number of cycles run: 4079

Number of cycles run: 1304

Number of cycles run: 3280

Number of cycles run: 50000

Number of cycles run: 3764

Number of cycles run: 3849

Number of cycles run: 2281

Number of cycles run: 3880

Number of cycles run: 2802

Number of cycles run: 800

Number of cycles run: 2384

Number of cycles run: 31312

Number of cycles run: 50000

Number of cycles run: 2027

Number of cycles run: 3422

Number of cycles run: 18658

Number of cycles run: 3496

Number of cycles run: 894

Number of cycles run: 3001

Number of cycles run: 2413

Number of cycles run: 2622

Number of cycles run: 50000

Number of cycles run: 433

Number of cycles run: 50000

Number of cycles run: 6122

Number of cycles run: 1826

Number of cycles run: 2249

Number of cycles run: 50000

Number of cycles run: 19234

Number of cycles run: 5887

Number of cycles run: 2261

Number of cycles run: 6656

Number of cycles run: 2307

Number of cycles run: 1665

Number of cycles run: 765

Number of cycles run: 5269

Number of cycles run: 3662

Number of cycles run: 4699

Number of cycles run: 2701

Number of cycles run: 2273

Number of cycles run: 2114

Number of cycles run: 12954

Number of cycles run: 27196

Number of cycles run: 4679

Number of cycles run: 4883

Number of cycles run: 2525

Av cycles for repulsion strength 3 is 11744

standard diviation is 16255.7897207

Testing average cycles for repulsion strength 3

Number of cycles run: 7628

Number of cycles run: 4356

Number of cycles run: 4621

Number of cycles run: 845

Number of cycles run: 1961

Number of cycles run: 4304

Number of cycles run: 795

Number of cycles run: 742

Number of cycles run: 2819

Number of cycles run: 787

Number of cycles run: 4399

Number of cycles run: 50000

Number of cycles run: 2971

Number of cycles run: 6408

Number of cycles run: 2519

Number of cycles run: 2452

Number of cycles run: 1071

Number of cycles run: 50000

Number of cycles run: 1727

Number of cycles run: 50000

Number of cycles run: 5584

Number of cycles run: 3609

Number of cycles run: 6473

Number of cycles run: 989

Number of cycles run: 50000

Number of cycles run: 5380

Number of cycles run: 27111

Number of cycles run: 1528

Number of cycles run: 964

Number of cycles run: 5606

Number of cycles run: 5509

Number of cycles run: 2598

Number of cycles run: 18625

Number of cycles run: 1021

Number of cycles run: 1675

Number of cycles run: 2858

Number of cycles run: 8836

Number of cycles run: 3487

Number of cycles run: 3385

Number of cycles run: 38571

Number of cycles run: 3354

Number of cycles run: 1158

Number of cycles run: 2405

Number of cycles run: 665

Number of cycles run: 1319

Number of cycles run: 9718

Number of cycles run: 2650

Number of cycles run: 50000

Number of cycles run: 1960

Number of cycles run: 4340

Number of cycles run: 2310

Number of cycles run: 2628

Number of cycles run: 1756

Number of cycles run: 2952

Number of cycles run: 731

Number of cycles run: 2885

Number of cycles run: 23522

Number of cycles run: 7308

Number of cycles run: 36750

Number of cycles run: 3667

Number of cycles run: 2545

Number of cycles run: 1549

Number of cycles run: 2299

Number of cycles run: 37629

Number of cycles run: 1641

Number of cycles run: 50000

Number of cycles run: 3310

Number of cycles run: 3088

Number of cycles run: 5688

Number of cycles run: 2793

Number of cycles run: 3083

Number of cycles run: 1390

Number of cycles run: 50000

Number of cycles run: 1826

Number of cycles run: 1365

Number of cycles run: 6977

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 4754

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 644

Number of cycles run: 13173

Number of cycles run: 2860

Number of cycles run: 2982

Number of cycles run: 2459

Number of cycles run: 42555

Number of cycles run: 875

Number of cycles run: 16964

Number of cycles run: 2691

Number of cycles run: 50000

Number of cycles run: 2264

Number of cycles run: 1911

Number of cycles run: 3511

Number of cycles run: 3605

Number of cycles run: 2815

Number of cycles run: 1749

Number of cycles run: 50000

Number of cycles run: 15327

Number of cycles run: 19233

Av cycles for repulsion strength 3 is 11718

standard diviation is 16978.6853755

Testing average cycles for repulsion strength 3

Number of cycles run: 4683

Number of cycles run: 3664

Number of cycles run: 2394

Number of cycles run: 50000

Number of cycles run: 1802

Number of cycles run: 1753

Number of cycles run: 694

Number of cycles run: 7955

Number of cycles run: 50000

Number of cycles run: 1138

Number of cycles run: 3621

Number of cycles run: 6857

Number of cycles run: 5863

Number of cycles run: 17962

Number of cycles run: 3493

Number of cycles run: 702

Number of cycles run: 17291

Number of cycles run: 5452

Number of cycles run: 18966

Number of cycles run: 5506

Number of cycles run: 3173

Number of cycles run: 4555

Number of cycles run: 3085

Number of cycles run: 4082

Number of cycles run: 3819

Number of cycles run: 6277

Number of cycles run: 15501

Number of cycles run: 13033

Number of cycles run: 5123

Number of cycles run: 21930

Number of cycles run: 50000

Number of cycles run: 7585

Number of cycles run: 9628

Number of cycles run: 1778

Number of cycles run: 6952

Number of cycles run: 50000

Number of cycles run: 1261

Number of cycles run: 5212

Number of cycles run: 8859

Number of cycles run: 3014

Number of cycles run: 3411

Number of cycles run: 3204

Number of cycles run: 1650

Number of cycles run: 5137

Number of cycles run: 5157

Number of cycles run: 1067

Number of cycles run: 3120

Number of cycles run: 467

Number of cycles run: 1506

Number of cycles run: 3875

Number of cycles run: 5210

Number of cycles run: 50000

Number of cycles run: 2094

Number of cycles run: 3144