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 2

Number of cycles run: 2326

Number of cycles run: 50000

Number of cycles run: 10336

Number of cycles run: 9939

Number of cycles run: 4388

Number of cycles run: 2914

Number of cycles run: 1044

Number of cycles run: 5610

Number of cycles run: 3325

Number of cycles run: 5249

Number of cycles run: 2742

Number of cycles run: 50000

Number of cycles run: 2106

Number of cycles run: 1403

Number of cycles run: 6212

Number of cycles run: 2963

Number of cycles run: 2459

Number of cycles run: 7618

Number of cycles run: 3467

Number of cycles run: 426

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 2265

Number of cycles run: 9585

Number of cycles run: 1747

Number of cycles run: 2462

Number of cycles run: 7389

Number of cycles run: 421

Number of cycles run: 4126

Number of cycles run: 50000

Number of cycles run: 10357

Number of cycles run: 4955

Number of cycles run: 2815

Number of cycles run: 1201

Number of cycles run: 4259

Number of cycles run: 22360

Number of cycles run: 3626

Number of cycles run: 4062

Number of cycles run: 3502

Number of cycles run: 830

Number of cycles run: 11560

Number of cycles run: 6050

Number of cycles run: 3400

Number of cycles run: 7072

Number of cycles run: 11974

Number of cycles run: 50000

Number of cycles run: 2198

Number of cycles run: 4156

Number of cycles run: 5888

Number of cycles run: 2134

Number of cycles run: 3423

Number of cycles run: 7228

Number of cycles run: 1263

Number of cycles run: 3324

Number of cycles run: 50000

Number of cycles run: 757

Number of cycles run: 3052

Number of cycles run: 769

Number of cycles run: 2242

Number of cycles run: 2138

Number of cycles run: 4244

Number of cycles run: 3651

Number of cycles run: 748

Number of cycles run: 4784

Number of cycles run: 457

Number of cycles run: 4319

Number of cycles run: 819

Number of cycles run: 1677

Number of cycles run: 4616

Number of cycles run: 8591

Number of cycles run: 1513

Number of cycles run: 2580

Number of cycles run: 2498

Number of cycles run: 1288

Number of cycles run: 6389

Number of cycles run: 24506

Number of cycles run: 1643

Number of cycles run: 13493

Number of cycles run: 1922

Number of cycles run: 2376

Number of cycles run: 50000

Number of cycles run: 1040

Number of cycles run: 17270

Number of cycles run: 2545

Number of cycles run: 50000

Number of cycles run: 3904

Number of cycles run: 3758

Number of cycles run: 8830

Number of cycles run: 415

Number of cycles run: 3438

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 401

Number of cycles run: 3802

Number of cycles run: 2730

Number of cycles run: 1855

Number of cycles run: 50000

Number of cycles run: 3217

Number of cycles run: 441

Number of cycles run: 6173

Av cycles for repulsion strength 2 is 9910

standard diviation is 15427.4342928

Testing average cycles for repulsion strength 2

Number of cycles run: 449

Number of cycles run: 593

Number of cycles run: 1917

Number of cycles run: 3556

Number of cycles run: 6560

Number of cycles run: 11529

Number of cycles run: 1326

Number of cycles run: 30696

Number of cycles run: 50000

Number of cycles run: 454

Number of cycles run: 3939

Number of cycles run: 13013

Number of cycles run: 5267

Number of cycles run: 3493

Number of cycles run: 4057

Number of cycles run: 4856

Number of cycles run: 6300

Number of cycles run: 3065

Number of cycles run: 50000

Number of cycles run: 2687

Number of cycles run: 50000

Number of cycles run: 455

Number of cycles run: 437

Number of cycles run: 2598

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 423

Number of cycles run: 1075

Number of cycles run: 23808

Number of cycles run: 35278

Number of cycles run: 4158

Number of cycles run: 1564

Number of cycles run: 1389

Number of cycles run: 4298

Number of cycles run: 4527

Number of cycles run: 2300

Number of cycles run: 962

Number of cycles run: 2321

Number of cycles run: 1277

Number of cycles run: 12052

Number of cycles run: 2597

Number of cycles run: 726

Number of cycles run: 8530

Number of cycles run: 4220

Number of cycles run: 761

Number of cycles run: 2318

Number of cycles run: 8447

Number of cycles run: 18869

Number of cycles run: 2079

Number of cycles run: 3467

Number of cycles run: 448

Number of cycles run: 2254

Number of cycles run: 27417

Number of cycles run: 4653

Number of cycles run: 637

Number of cycles run: 1946

Number of cycles run: 7433

Number of cycles run: 1700

Number of cycles run: 50000

Number of cycles run: 3283

Number of cycles run: 50000

Number of cycles run: 4013

Number of cycles run: 7583

Number of cycles run: 49510

Number of cycles run: 4542

Number of cycles run: 1229

Number of cycles run: 8662

Number of cycles run: 50000

Number of cycles run: 13990

Number of cycles run: 1901

Number of cycles run: 4221

Number of cycles run: 1874

Number of cycles run: 14993

Number of cycles run: 1978

Number of cycles run: 1875

Number of cycles run: 3221

Number of cycles run: 1224

Number of cycles run: 2848

Number of cycles run: 1616

Number of cycles run: 368

Number of cycles run: 4230

Number of cycles run: 1096

Number of cycles run: 1360

Number of cycles run: 4344

Number of cycles run: 6499

Number of cycles run: 2807

Number of cycles run: 9119

Number of cycles run: 50000

Number of cycles run: 2917

Number of cycles run: 50000

Number of cycles run: 3197

Number of cycles run: 50000

Number of cycles run: 3546

Number of cycles run: 5924

Number of cycles run: 2971

Number of cycles run: 2331

Number of cycles run: 722

Number of cycles run: 441

Number of cycles run: 4798

Number of cycles run: 1749

Av cycles for repulsion strength 2 is 10381

standard diviation is 15890.0049384

Testing average cycles for repulsion strength 2

Number of cycles run: 3227

Number of cycles run: 2638

Number of cycles run: 3811

Number of cycles run: 3424

Number of cycles run: 50000

Number of cycles run: 8273

Number of cycles run: 2066

Number of cycles run: 4221

Number of cycles run: 3222

Number of cycles run: 3995

Number of cycles run: 2056

Number of cycles run: 8630

Number of cycles run: 2619

Number of cycles run: 11258

Number of cycles run: 3243

Number of cycles run: 3322

Number of cycles run: 1245

Number of cycles run: 40165

Number of cycles run: 1980

Number of cycles run: 945

Number of cycles run: 50000

Number of cycles run: 6550

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 7021

Number of cycles run: 446

Number of cycles run: 4506

Number of cycles run: 5035

Number of cycles run: 2945

Number of cycles run: 2093

Number of cycles run: 447

Number of cycles run: 3392

Number of cycles run: 2331

Number of cycles run: 983

Number of cycles run: 1464

Number of cycles run: 849

Number of cycles run: 3601

Number of cycles run: 3363

Number of cycles run: 1723

Number of cycles run: 50000

Number of cycles run: 8348

Number of cycles run: 1748

Number of cycles run: 2218

Number of cycles run: 4743

Number of cycles run: 413

Number of cycles run: 1777

Number of cycles run: 4797

Number of cycles run: 2492

Number of cycles run: 50000

Number of cycles run: 14403

Number of cycles run: 3479

Number of cycles run: 2154

Number of cycles run: 49277

Number of cycles run: 10394

Number of cycles run: 32290

Number of cycles run: 1503

Number of cycles run: 1087

Number of cycles run: 6377

Number of cycles run: 574

Number of cycles run: 908

Number of cycles run: 2903

Number of cycles run: 1017

Number of cycles run: 3544

Number of cycles run: 4454

Number of cycles run: 2010

Number of cycles run: 1332

Number of cycles run: 3858

Number of cycles run: 8737

Number of cycles run: 20914

Number of cycles run: 4314

Number of cycles run: 9780

Number of cycles run: 986

Number of cycles run: 50000

Number of cycles run: 2865

Number of cycles run: 2281

Number of cycles run: 7124

Number of cycles run: 4426

Number of cycles run: 1951

Number of cycles run: 21613

Number of cycles run: 1823

Number of cycles run: 2503

Number of cycles run: 3003

Number of cycles run: 50000

Number of cycles run: 3207

Number of cycles run: 4886

Number of cycles run: 442

Number of cycles run: 36845

Number of cycles run: 1644

Number of cycles run: 460

Number of cycles run: 672

Number of cycles run: 3863

Number of cycles run: 1829

Number of cycles run: 2436

Number of cycles run: 399

Number of cycles run: 1735

Number of cycles run: 1414

Number of cycles run: 4906

Number of cycles run: 3155

Number of cycles run: 50000

Number of cycles run: 5542

Av cycles for repulsion strength 2 is 9409

standard diviation is 15107.2767805

Testing average cycles for repulsion strength 2

Number of cycles run: 2028

Number of cycles run: 5890

Number of cycles run: 50000

Number of cycles run: 1587

Number of cycles run: 50000

Number of cycles run: 6155

Number of cycles run: 36330

Number of cycles run: 691

Number of cycles run: 4376

Number of cycles run: 13339

Number of cycles run: 2931

Number of cycles run: 1434

Number of cycles run: 3899

Number of cycles run: 17825

Number of cycles run: 2118

Number of cycles run: 7420

Number of cycles run: 2220

Number of cycles run: 3362

Number of cycles run: 31764

Number of cycles run: 2701

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3904

Number of cycles run: 50000

Number of cycles run: 3915

Number of cycles run: 460

Number of cycles run: 756

Number of cycles run: 556

Number of cycles run: 1545

Number of cycles run: 4685

Number of cycles run: 2472

Number of cycles run: 2091

Number of cycles run: 3046

Number of cycles run: 29909

Number of cycles run: 2606

Number of cycles run: 8358

Number of cycles run: 2157

Number of cycles run: 3633

Number of cycles run: 2841

Number of cycles run: 443

Number of cycles run: 852

Number of cycles run: 27973

Number of cycles run: 8083

Number of cycles run: 1708

Number of cycles run: 3110

Number of cycles run: 599

Number of cycles run: 1712

Number of cycles run: 6269

Number of cycles run: 2274

Number of cycles run: 5604

Number of cycles run: 1218

Number of cycles run: 50000

Number of cycles run: 2710

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3152

Number of cycles run: 608

Number of cycles run: 4132

Number of cycles run: 1941

Number of cycles run: 9819

Number of cycles run: 1843

Number of cycles run: 4575

Number of cycles run: 6097

Number of cycles run: 2797

Number of cycles run: 2478

Number of cycles run: 16063

Number of cycles run: 4170

Number of cycles run: 3958

Number of cycles run: 2460

Number of cycles run: 9347

Number of cycles run: 419

Number of cycles run: 1431

Number of cycles run: 50000

Number of cycles run: 6106

Number of cycles run: 2390

Number of cycles run: 1405

Number of cycles run: 1449

Number of cycles run: 3849

Number of cycles run: 2538

Number of cycles run: 50000

Number of cycles run: 32151

Number of cycles run: 3235

Number of cycles run: 7443

Number of cycles run: 5458

Number of cycles run: 1585

Number of cycles run: 6532

Number of cycles run: 2879

Number of cycles run: 4884

Number of cycles run: 50000

Number of cycles run: 453

Number of cycles run: 3125

Number of cycles run: 1410

Number of cycles run: 2479

Number of cycles run: 50000

Number of cycles run: 2926

Number of cycles run: 4889

Number of cycles run: 6702

Number of cycles run: 9298

Number of cycles run: 25839

Number of cycles run: 50000

Av cycles for repulsion strength 2 is 11458

standard diviation is 16556.7536323

Testing average cycles for repulsion strength 2

Number of cycles run: 595

Number of cycles run: 1765

Number of cycles run: 2809

Number of cycles run: 510

Number of cycles run: 622

Number of cycles run: 2571

Number of cycles run: 50000

Number of cycles run: 2791

Number of cycles run: 22790

Number of cycles run: 3811

Number of cycles run: 50000

Number of cycles run: 3546

Number of cycles run: 4818

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[GCC 7.2.0] on linux

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>>>

===== RESTART: /home/cserv1\_a/soc\_msc/ml16m6y/Downloads/schooling\_R3.py ===== /6 =9667.33333

Testing average cycles for repulsion strength 2

Number of cycles run: 2356

Number of cycles run: 9903

Number of cycles run: 3638

Number of cycles run: 2860

Number of cycles run: 417

Number of cycles run: 50000

Number of cycles run: 2831

Number of cycles run: 9607

Number of cycles run: 3521

Number of cycles run: 1095

Number of cycles run: 4284

Number of cycles run: 839

Number of cycles run: 1744

Number of cycles run: 23399

Number of cycles run: 1834

Number of cycles run: 597

Number of cycles run: 12187

Number of cycles run: 8561

Number of cycles run: 50000

Number of cycles run: 4343

Number of cycles run: 6607

Number of cycles run: 1751

Number of cycles run: 1437

Number of cycles run: 1152

Number of cycles run: 7593

Number of cycles run: 50000

Number of cycles run: 1884

Number of cycles run: 1588

Number of cycles run: 10689

Number of cycles run: 1079

Number of cycles run: 2099

Number of cycles run: 5624

Number of cycles run: 2238

Number of cycles run: 50000

Number of cycles run: 1272

Number of cycles run: 2754

Number of cycles run: 2027

Number of cycles run: 3761

Number of cycles run: 393

Number of cycles run: 8264

Number of cycles run: 1803

Number of cycles run: 40642

Number of cycles run: 971

Number of cycles run: 707

Number of cycles run: 1277

Number of cycles run: 5820

Number of cycles run: 2855

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 3894

Number of cycles run: 868

Number of cycles run: 4027

Number of cycles run: 46852

Number of cycles run: 3273

Number of cycles run: 18923

Number of cycles run: 5032

Number of cycles run: 5940

Number of cycles run: 1076

Number of cycles run: 969

Number of cycles run: 2208

Number of cycles run: 1072

Number of cycles run: 1080

Number of cycles run: 2324

Number of cycles run: 5853

Number of cycles run: 573

Number of cycles run: 6721

Number of cycles run: 4679

Number of cycles run: 395

Number of cycles run: 1354

Number of cycles run: 2386

Number of cycles run: 2276

Number of cycles run: 50000

Number of cycles run: 7834

Number of cycles run: 8700

Number of cycles run: 3621

Number of cycles run: 4717

Number of cycles run: 13565

Number of cycles run: 1724

Number of cycles run: 750

Number of cycles run: 3932

Number of cycles run: 2955

Number of cycles run: 2378

Number of cycles run: 3882

Number of cycles run: 1298

Number of cycles run: 3971

Number of cycles run: 50000

Number of cycles run: 1732

Number of cycles run: 50000

Number of cycles run: 3754

Number of cycles run: 1629

Number of cycles run: 662

Number of cycles run: 1198

Number of cycles run: 1252

Number of cycles run: 1338

Number of cycles run: 1608

Number of cycles run: 3179

Number of cycles run: 8045

Number of cycles run: 5019

Number of cycles run: 10627

Number of cycles run: 1855

Av cycles for repulsion strength 2 is 8833

standard diviation is 14657.4824278

Testing average cycles for repulsion strength 2

Number of cycles run: 5178

Number of cycles run: 3771

Number of cycles run: 50000

Number of cycles run: 50000

Number of cycles run: 10704

Number of cycles run: 2166

Number of cycles run: 781

Number of cycles run: 2570

Number of cycles run: 2366

Number of cycles run: 24962

Number of cycles run: 4055

Number of cycles run: 16464

Number of cycles run: 2525

Number of cycles run: 1872

Number of cycles run: 1626

Number of cycles run: 2529

Number of cycles run: 424

Number of cycles run: 1420

Number of cycles run: 14523

Number of cycles run: 7101

Number of cycles run: 2305

Number of cycles run: 25448

Number of cycles run: 50000

Number of cycles run: 1697

Number of cycles run: 4552

Number of cycles run: 5461

Number of cycles run: 3756

Number of cycles run: 1625

Number of cycles run: 2038

Number of cycles run: 5613

Number of cycles run: 1204

Number of cycles run: 2564

Number of cycles run: 15235

Number of cycles run: 2321

Number of cycles run: 2979

Number of cycles run: 6241

Number of cycles run: 3127

Number of cycles run: 1584

Number of cycles run: 554

Number of cycles run: 36635

Number of cycles run: 1587

Number of cycles run: 447

Number of cycles run: 897

Number of cycles run: 3503

Number of cycles run: 402

Number of cycles run: 2787

Number of cycles run: 6089

Number of cycles run: 5446

Number of cycles run: 961

Number of cycles run: 1019

Number of cycles run: 2233

Number of cycles run: 6277

Number of cycles run: 1527

Number of cycles run: 50000

Number of cycles run: 1017

Number of cycles run: 2243

Number of cycles run: 3782

Number of cycles run: 50000

Number of cycles run: 6434

Number of cycles run: 2529

Number of cycles run: 2571

Number of cycles run: 2468

Number of cycles run: 42634

Number of cycles run: 5108

Number of cycles run: 449

Number of cycles run: 5460

Number of cycles run: 6832

Number of cycles run: 7466

Number of cycles run: 435

Number of cycles run: 1488

Number of cycles run: 2043

Number of cycles run: 2225

Number of cycles run: 1236

Number of cycles run: 4206

Number of cycles run: 698

Number of cycles run: 1903

Number of cycles run: 3911

Number of cycles run: 50000

Number of cycles run: 1750

Number of cycles run: 5184

Number of cycles run: 2354

Number of cycles run: 3928

Number of cycles run: 8562

Number of cycles run: 2517

Number of cycles run: 446

Number of cycles run: 6296

Number of cycles run: 688

Number of cycles run: 2033

Number of cycles run: 6420

Number of cycles run: 1080

Number of cycles run: 4198

Number of cycles run: 2980

Number of cycles run: 1184

Number of cycles run: 428

Number of cycles run: 50000

Number of cycles run: 5117

Number of cycles run: 1562

Number of cycles run: 5688

Number of cycles run: 3037

Number of cycles run: 15625

Av cycles for repulsion strength 2 is 8013

standard diviation is 13354.9988191

Testing average cycles for repulsion strength 2

Number of cycles run: 12708

Number of cycles run: 4895

Number of cycles run: 632

Number of cycles run: 50000

Number of cycles run: 5347

Number of cycles run: 33887

Number of cycles run: 1644

Number of cycles run: 2518

Number of cycles run: 36748

Number of cycles run: 3184

Number of cycles run: 1636

Number of cycles run: 50000

Number of cycles run: 2628

Number of cycles run: 585

Number of cycles run: 50000

Number of cycles run: 3356

Number of cycles run: 3837

Number of cycles run: 2909

Number of cycles run: 868

Number of cycles run: 2268

Number of cycles run: 1618

Number of cycles run: 6965

Number of cycles run: 6640

Number of cycles run: 2531

Number of cycles run: 3196

Number of cycles run: 1998

Number of cycles run: 460

Number of cycles run: 2826

Number of cycles run: 15903

Number of cycles run: 3540

Number of cycles run: 4414

Number of cycles run: 3585

Number of cycles run: 50000

Number of cycles run: 14889

Number of cycles run: 4133

Number of cycles run: 1205

Number of cycles run: 1742

Number of cycles run: 29538

Number of cycles run: 493

Number of cycles run: 3211

Number of cycles run: 12350

Number of cycles run: 2021

Number of cycles run: 50000

Number of cycles run: 3238

Number of cycles run: 2654

Number of cycles run: 2480

Number of cycles run: 3168

Number of cycles run: 5185

Number of cycles run: 3725

Number of cycles run: 2252

Number of cycles run: 4082

Number of cycles run: 50000

Number of cycles run: 3041

Number of cycles run: 4794

Number of cycles run: 3481

Number of cycles run: 3489

Number of cycles run: 2673

Number of cycles run: 5621