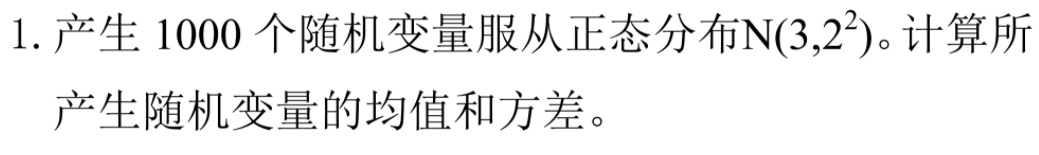
上机作业第一题



>> %P为随机变量，E为均值，D为方差

P=normrnd(3,2,1000,1)

P =

4.0753

6.6678

-1.5177

4.7243

3.6375

0.3846

2.1328

3.6852

10.1568

8.5389

0.3002

9.0698

4.4508

2.8739

4.4295

2.5901

2.7517

5.9794

5.8181

5.8344

4.3430

0.5850

4.4345

6.2605

3.9778

5.0694

4.4538

2.3931

3.5877

1.4254

4.7768

0.7059

0.8623

1.3810

-2.8886

5.8768

3.6504

1.4901

5.7406

-0.4230

2.7955

2.5171

3.6384

3.6257

1.2702

2.9399

2.6702

4.2554

5.1865

5.2185

1.2727

3.1547

0.5718

0.7730

2.9863

6.0653

1.4607

3.7428

2.5488

5.2347

0.8219

3.0651

4.1051

5.2012

6.0884

3.1719

0.0168

1.5154

0.8768

7.7009

1.7688

4.4962

2.6152

4.7772

1.4703

0.1955

0.1552

3.9764

2.6452

2.6079

5.8386

3.5832

3.3956

6.1754

1.3911

4.3932

4.6702

2.5126

3.4313

0.6683

0.7041

3.2097

4.4445

8.1710

1.6662

3.3747

2.8350

-0.8660

2.1221

-0.5894

4.6808

1.2239

3.2002

1.9109

3.6070

1.7993

3.9799

4.4787

6.4238

2.6118

-1.2767

1.3208

5.7092

0.8557

4.9219

3.2481

5.8734

-0.9218

2.6046

0.5843

8.8160

4.6504

5.7579

0.8836

2.0628

2.4551

5.1968

2.4443

4.4031

-1.1036

2.2923

1.3528

-0.1541

4.0159

3.5640

3.0670

0.3326

5.2550

3.7004

2.4019

3.0458

2.4760

-0.5004

2.4287

1.3373

1.0416

0.6872

1.9329

-1.0053

4.9285

4.0401

2.9599

2.9305

1.4037

5.0374

2.7336

1.5709

5.7028

2.5505

1.8219

2.4125

1.3041

0.7597

8.0520

6.3110

3.6151

0.4858

1.2691

2.6469

4.5828

0.3360

-1.6597

0.1018

3.6670

3.7827

3.9034

2.7394

3.3674

2.0477

4.7240

0.2766

3.9101

1.3026

2.3302

4.1056

5.0782

0.7647

5.5213

4.3203

2.8643

2.6096

2.5648

2.3938

3.0461

3.1026

4.6521

6.0540

3.9338

2.5806

4.2504

3.3665

0.9405

4.8984

3.6141

3.2703

4.0305

3.5228

1.1170

2.6753

2.7079

1.9360

6.3642

1.2485

2.0324

1.5760

0.6516

2.6155

2.4519

6.0601

2.5020

0.8716

6.2069

5.4694

2.5407

-0.0123

2.1107

2.6881

3.5521

2.4777

3.8868

3.7838

0.4986

1.1041

1.5178

1.9844

2.3588

3.0249

-3.0584

2.0860

5.4849

0.8666

4.8675

3.7006

2.9420

3.3649

-0.1301

2.8309

6.2079

3.1967

3.0827

1.5317

2.9384

3.4647

3.8528

2.2544

2.5271

7.0474

-1.5167

7.4589

3.6751

5.0001

-0.3283

1.8199

2.4439

3.8454

-0.3404

3.9433

0.5743

3.1324

4.3047

3.6541

5.1653

5.0122

1.6982

3.5141

1.1112

0.3564

4.8497

3.0001

2.8902

4.8223

4.1892

3.7004

5.5005

4.8596

3.4795

1.6193

1.6969

5.3842

-0.2237

2.9511

-0.8977

5.0410

4.7234

3.0023

2.8583

-1.9726

4.1623

-1.3849

-1.6386

3.1599

1.1030

3.8230

4.3540

4.7155

1.6177

3.8988

3.2013

4.6521

4.0723

4.7958

2.7361

2.7056

5.0155

-1.2473

1.9908

0.4588

2.2348

4.2974

4.6515

0.9701

2.0579

3.2740

2.4163

3.6036

3.7999

1.1401

2.6463

-1.2642

5.2907

1.7418

0.5923

2.4921

0.1427

2.9583

1.8787

7.3556

5.2769

-1.9938

3.8827

0.2037

2.4899

3.3288

4.4955

2.4539

6.1526

2.0381

3.6550

4.3295

3.1704

4.7619

3.6464

1.4317

-0.6107

6.7172

1.7909

3.2067

4.1263

3.2272

1.1905

2.0646

2.7502

5.9579

1.2784

4.5693

3.6172

2.5323

0.8861

2.4317

2.8266

0.0612

3.3844

1.3554

2.8115

3.6724

1.1907

2.4235

3.7001

-0.6717

5.0720

7.8489

4.9188

2.3685

3.8572

0.9280

6.7557

4.8814

4.5747

1.2483

3.6399

1.8834

2.3771

1.8600

0.9485

1.1825

2.5802

-0.3977

4.2152

2.7644

4.3983

3.5393

3.9886

0.0338

0.9595

2.1060

3.2193

5.2575

2.4201

5.5231

3.9508

5.3482

3.2539

1.6864

0.0372

3.3110

4.6371

2.4148

1.9184

2.3827

0.8068

2.0140

2.6385

3.0917

2.8724

4.2227

3.2186

6.6280

3.6240

6.6090

1.5538

4.0531

2.4795

4.2003

4.1879

-1.3720

0.3459

0.1180

3.8037

5.9404

2.3464

4.6246

4.0911

0.8967

3.7949

1.4962

6.0325

2.9349

6.2720

2.1499

4.1789

2.8744

-1.0439

1.0357

4.2250

2.8902

0.7625

1.7472

3.4990

1.0140

4.9499

1.7186

6.6177

0.8403

3.3984

-0.0421

1.5527

1.8135

3.8027

4.8843

3.6010

2.2539

4.6310

4.5978

3.2404

4.1425

3.8256

1.0261

4.5191

1.6856

1.7922

3.3539

2.3850

2.7364

4.1907

5.0937

2.6041

3.6554

2.5234

3.4592

3.8800

1.7663

3.5497

4.2022

3.1846

6.4597

1.7829

1.5259

-0.4998

4.8210

4.7342

2.8402

4.7970

3.3674

3.5816

3.2259

3.8799

3.2033

8.5747

0.6667

-0.7086

0.7186

0.8133

2.1328

2.6631

2.5629

4.0827

3.7785

4.5025

6.5565

5.4461

0.4335

-1.6579

4.8039

-0.6713

3.1335

3.0710

7.4543

2.8616

1.9854

3.4716

3.4916

3.1401

1.7828

0.5548

3.6330

0.3143

0.9356

5.6624

2.1622

2.7194

4.7996

2.3998

5.0587

2.3099

5.0256

4.2587

2.5740

1.2686

0.9138

2.4599

2.1237

2.1827

4.9671

2.4046

5.2874

1.9368

4.9451

1.9555

3.3532

4.9415

2.1721

2.1235

7.0068

4.9020

2.1360

4.2979

2.2798

4.4118

5.8317

-0.2090

5.0577

5.9159

3.0949

6.4925

3.3108

0.5258

-1.3870

2.3332

4.4271

3.6348

3.8272

1.8458

3.2880

-0.2773

1.4798

1.3624

4.0395

2.9717

0.6889

2.9810

1.6204

1.6666

4.7283

3.2268

3.7967

4.7679

3.3605

4.1017

4.3659

5.3412

3.9517

5.8245

3.0452

2.9043

6.4027

1.9806

2.9943

4.8397

3.2996

5.8099

5.0682

3.5831

1.4446

4.1334

0.2348

3.4889

4.6169

3.4261

4.7594

7.0778

4.8479

3.5338

4.2833

3.8510

0.3706

2.1672

5.4494

2.9128

4.1648

0.9870

3.1290

4.2006

0.2770

3.6952

2.6363

1.1209

2.9249

-0.7926

-1.2560

0.6462

1.0189

0.6539

-0.4509

3.5765

-0.1884

3.2204

4.5741

2.9955

3.1862

2.2437

0.0346

2.9124

4.9217

6.4765

2.1396

-0.2546

3.3327

3.7525

2.5461

0.7022

7.0487

-1.7190

1.9801

0.3567

1.7277

3.6357

3.2761

1.5785

4.5540

4.2448

4.2948

2.1487

5.0972

4.3214

8.0175

5.1269

5.3138

3.1060

0.4232

2.2576

1.4844

1.8721

4.1103

1.8864

1.2098

2.1813

2.6782

3.8187

1.0947

3.6346

3.1560

5.6488

2.5737

2.7310

0.6573

0.2295

3.6210

2.5010

4.0075

1.2147

6.8170

3.2445

5.0941

2.5462

2.6750

4.3801

4.1115

0.7595

-0.0654

0.8043

0.1685

3.1191

2.1775

2.2640

0.2781

4.5591

3.8788

2.8208

5.0424

1.2520

3.8294

3.6969

3.6985

1.5415

3.6537

1.9702

1.2071

0.5935

5.0756

1.3081

2.6542

0.5827

2.4057

-3.4641

0.8261

0.1471

0.9711

2.5735

2.3493

6.8888

1.8565

2.4999

-0.1386

2.0452

0.3240

3.0606

4.7062

3.8085

1.5988

-0.2611

5.9200

7.1001

3.2410

1.0202

5.3955

1.8147

2.0604

4.7728

0.2296

-0.9135

3.8414

3.8015

3.1903

3.9934

5.1645

4.9409

1.8629

4.6199

3.3465

1.9889

0.6134

4.2939

2.2928

3.0929

1.4141

-0.1010

3.3432

2.8757

5.3981

4.6034

5.1066

1.5022

1.1273

0.4618

3.9960

8.5782

4.4551

1.4539

4.6733

0.7433

0.1511

4.4349

1.4442

3.6320

5.8131

3.8022

4.8593

-0.2116

4.3231

7.2770

4.0823

-0.0818

2.5937

2.0001

3.7660

3.8241

3.8110

2.2724

1.8015

1.8208

4.7071

-0.7060

2.5854

3.5408

1.6945

3.9545

2.8574

1.1234

3.3227

2.4636

2.1803

1.5774

3.1229

-0.6923

2.2033

1.9129

1.1762

4.3054

1.5315

4.0813

4.9517

2.6863

3.5556

4.2790

2.8380

4.0817

0.4749

5.2208

1.0209

-0.6577

5.7690

2.8745

3.8978

2.2735

0.9588

-3.1460

4.2526

2.4266

2.6053

3.8112

0.1613

1.5411

5.2947

4.1957

0.4374

-1.4065

1.8575

3.4280

4.8848

3.1875

0.7554

3.6123

0.6553

1.0781

1.6925

0.5412

2.4581

1.2001

2.4286

2.0752

2.1804

1.9929

5.4666

4.2206

3.1181

0.0661

-0.2516

-0.9295

8.2104

4.9447

3.5140

1.0515

0.7073

4.0953

6.1302

-0.3867

2.1012

2.8314

-0.9840

4.6825

2.1707

6.8244

2.2182

3.8184

0.7151

1.7503

0.6626

3.7852

5.6037

1.8127

3.8728

1.9913

3.2042

5.3925

3.2406

0.9263

1.2858

2.6603

2.6167

1.2684

3.3613

5.5331

2.4977

2.5909

-1.4030

1.4510

0.2135

2.2275

4.0512

6.0465

6.5970

2.7662

2.3596

4.6350

3.9803

4.5305

4.5566

0.0394

4.0807

2.8169

1.4795

1.6128

5.5629

1.3805

0.5264

3.4294

7.0215

3.0511

3.6166

1.1235

6.3484

3.2500

4.0602

1.0959

4.7081

3.7783

0.6880

3.0795

2.0988

3.2185

2.4989

2.6202

0.9342

2.3534

4.5331

6.4893

0.6790

7.7548

6.0522

3.3370

2.3976

1.6027

4.6655

1.6108

2.0762

4.7672

3.8719

4.7935

4.0095

2.1982

1.9723

4.5927

1.6576

5.3733

4.5814

3.5754

3.0065

3.7312

10.0534

2.7751

-0.1132

6.8302

4.2197

1.7042

8.2347

4.1019

3.5884

1.4443

0.8701

-0.5368

2.1542

0.8938

4.2955

2.3647

6.5380

6.0212

3.3280

2.4345

5.3043

0.7070

>> E=mean(mean(P))

D=var(P,1)

E =

2.9347

D =

3.9877

【结论】所产生的随机变量期望为2.9347，方差为3.9877，和题目中的要求较为接近