```
F=randn(1,1000)
hist(F)
```

F =

Columns 1 through 7

   0.2962   1.2008   1.0902   -0.3587   -0.1299   0.7337   0.1203

Columns 8 through 14

   1.1363   -0.6868   0.4717   0.2883   1.3919   -1.3455   0.0007

Columns 15 through 21

   0.0535   -2.3419   1.2481   2.8092   -0.2322   0.2870   -0.4646

Columns 22 through 28

   0.3843   -0.3798   -0.1018   1.6182   -0.8472   -0.5759   -0.0759

Columns 29 through 35

  -0.1325   1.4393   2.0313   -0.9782   -0.6410   0.5205   -0.3807

Columns 36 through 42

   1.9929   1.6359   0.5590   0.5636   -0.3384   0.7636   1.1274

Columns 43 through 49

   0.1416   1.9281   0.6706   -0.1101   0.3710   1.0966   -0.3982

Columns 50 through 56

  -0.0855   2.3733   -0.4739   0.9463   0.8182   1.5890   0.5260

Columns 57 through 63

  -2.4652   -0.8525   0.5117   0.2578   1.9624   1.4063   0.4968

Columns 64 through 70

   0.0828   -1.5485   1.8632   0.1340   -1.5460   0.4333   0.1030

Columns 71 through 77

  -0.5703   0.4931   -0.7075   -1.3480   -1.7543   -0.3638   -0.6271

Columns 78 through 84

   0.4402   -1.5026   -0.2082   -1.5051   1.8097   -0.1170   1.2262

Columns 85 through 91

   0.4949   0.9086   -1.1542   1.2576   1.4525   -2.0768   -0.1765

Columns 92 through 98

  -0.6521   0.1565   -0.8502   0.2790   0.5971   0.2447   -0.1183

Columns 99 through 105

  -1.2894   0.0576   -0.5209   -1.2790   -0.0562   -0.2097   0.1921

Columns 106 through 112

   0.9923   0.5762   1.3058   -0.7293   -0.8646   -0.0949   1.3832

Columns 113 through 119

   1.3037   -0.1258   -0.5969   -1.5206   0.6718   0.0228   -1.1778

Columns 120 through 126

  -0.3346   -1.8295   0.4300   -0.1740   1.6312   -1.3594   0.9705

Columns 127 through 133

   0.1436   0.0826   0.7167   1.1935   -1.0711   1.3189   -1.2100

Columns 134 through 140

  -1.0741   -0.6726   0.7365   -1.0700   0.3347   0.4119   0.1541

Columns 141 through 147

   0.5546   -1.1728   1.0076   0.1135   0.7301   -0.9835   0.0520

Columns 148 through 154

   0.8776   1.0141   -0.0843   -1.8535   -1.0968   0.2186   0.7942

Columns 155 through 161

   0.4631   -0.6126   2.2444   0.0723   0.8655   -0.4157   -1.1149

Columns 162 through 168

   0.6853   1.0377   1.8222   -0.5290   -1.6280   1.6173   0.2641

Columns 169 through 175

  -1.1271   -0.5592   -0.8088   1.1610   0.5921   0.2427   0.2405

Columns 176 through 182

```
  -0.8215    0.9931    0.3464   -0.2611   -0.1847   -0.1017   -0.8870

Columns 183 through 189

   0.7414    1.3922    2.4739    0.5039   -0.8225    0.2010   -1.0071

Columns 190 through 196

  -0.6132   -0.6590   -0.8332    0.3782   -1.1153    0.6672    0.7953

Columns 197 through 203

   1.0375   -0.0204    0.6190    1.8031    0.0530   -0.1779    1.7725

Columns 204 through 210

  -2.5088   -0.4566    2.4304   -0.4715   -0.5603   -1.2265    0.7930

Columns 211 through 217

  -2.1099   -0.7994    0.5670   -0.0014    0.6239    0.1264    0.6809

Columns 218 through 224

  -1.2874    0.2181   -1.5666    0.7833   -0.3106    0.6553   -0.5375

Columns 225 through 231

   0.3286    1.0541   -1.9797   -1.8674   -1.8324    0.8486    0.4052

Columns 232 through 238

  -0.7025    1.4990    0.1378   -1.5868   -1.0191   -1.3852    0.9549

Columns 239 through 245

  -0.6011   -1.1719   -0.5771   -0.8364    0.8530    0.4773    0.3023

Columns 246 through 252

   0.4158    0.0430   -0.9489    0.5416   -0.8211   -1.0719   -1.0741

Columns 253 through 259

   0.8696    0.9811   -1.7588   -0.1481    0.2519   -0.6104    0.7610

Columns 260 through 266

   0.2544   -0.1528   -0.5574    0.6770    0.8493    0.4693   -0.2398

Columns 267 through 273

   0.9210   -0.9069    0.1444    1.3964   -0.1897   -0.8438    1.9434
```

Columns 274 through 280

  -0.2469   0.4416   -0.8036   0.2876   0.4670   0.0046   0.3261

Columns 281 through 287

   1.2046   -1.4041   0.2056   -1.9912   0.0284   1.9305   0.9411

Columns 288 through 294

  -0.0069   -0.3382   0.5283   1.0569   0.0147   1.6148   -0.8159

Columns 295 through 301

  -1.9978   -0.7482   -0.1993   -0.3728   -0.8474   1.3372   -1.6163

Columns 302 through 308

  -0.4918   -0.9693   -0.4741   -0.6662   0.4784   -1.0411   -0.8207

Columns 309 through 315

   0.1011   1.0840   -1.8545   1.7998   -0.8784   0.6477   1.0496

Columns 316 through 322

   1.3231   -0.5174   0.0243   -0.1624   -0.6057   0.2717   0.3586

Columns 323 through 329

  -0.3523   0.1324   2.6736   -0.0076   0.7103   -0.4625   -0.5279

Columns 330 through 336

  -0.3458   0.5646   -0.8015   -1.8529   0.0532   -0.4364   0.2800

Columns 337 through 343

   0.0846   0.7291   0.9008   -1.3256   -1.5246   0.5024   0.3064

Columns 344 through 350

  -0.9392   1.2374   0.0330   0.1236   0.2739   0.7542   1.5245

Columns 351 through 357

  -0.2620   -1.7307   1.0135   -0.9277   1.2437   -0.5895   1.4915

Columns 358 through 364

  -0.8060   -1.1126   0.9569   -1.3631   0.6806   0.4378   -0.1433

Columns 365 through 371

```
  -0.3415    2.0578    -0.3745    -0.1902    -0.9387    -0.8135    -0.5836

Columns 372 through 378

   1.7095    -0.3904    -0.6901    -0.4482     0.7144    -1.3157     0.6271

Columns 379 through 385

  -1.3313    -0.1308    -1.8269     0.5359     0.6929    -0.6875     0.3176

Columns 386 through 392

   0.1628     1.1591     0.1284     1.0395    -0.1168    -0.6483    -0.0380

Columns 393 through 399

  -0.1993     0.8817    -0.0561    -0.8412    -0.1548     1.1886    -0.4149

Columns 400 through 406

  -0.6586     0.9840     0.1012    -0.3627    -0.7388    -1.4798     0.1534

Columns 407 through 413

  -0.3170     0.3189    -1.4565     1.3218     0.4872    -1.5666     1.0571

Columns 414 through 420

  -0.5876     0.3022     0.2195    -0.8782    -2.8614     0.5356    -0.3420

Columns 421 through 427

  -0.5979     0.4189    -0.6897     0.6712     0.1509    -0.9913     0.8368

Columns 428 through 434

   0.4745     1.2522    -0.8926    -0.8953     0.3133     0.6670     0.8281

Columns 435 through 441

   0.0065    -0.2359     0.6528     1.9645     0.8846     0.0845    -0.5745

Columns 442 through 448

   0.4998    -0.4841     0.2384     0.7782     0.9243     0.5881     1.3779

Columns 449 through 455

   1.8512    -1.8977    -1.7787    -0.9226    -1.9979    -0.3571    -0.3364

Columns 456 through 462

   0.2504     0.2862    -0.6862    -0.8133     0.7934    -0.3819    -1.3712
```

Columns 463 through 469

  0.0103   0.2041   -0.4110   0.6636   0.2258   -0.2128   -0.0440

Columns 470 through 476

  0.4582   -0.4414   -1.0549   -0.1556   0.1291   0.5094   -0.0301

Columns 477 through 483

 -0.4574   0.5963   -0.1135   0.8070   -0.0898   -0.0063   -0.0919

Columns 484 through 490

 -0.9212   -0.9270   -0.9612   1.7848   -0.2002   0.9404   0.3492

Columns 491 through 497

  1.8593   0.9271   -1.2270   -0.3272   0.8916   0.2882   2.2652

Columns 498 through 504

 -0.0479   -1.5519   0.4441   -0.9118   0.0494   1.0780   0.3082

Columns 505 through 511

  0.2996   -0.1972   -0.1464   -0.1031   -2.7990   0.3933   0.9902

Columns 512 through 518

 -1.2976   -1.5220   0.6210   -1.5075   -1.6794   0.7890   -0.6543

Columns 519 through 525

  1.2449   -1.2923   -0.6144   0.2417   0.5493   0.4676   0.1915

Columns 526 through 532

 -0.2298   -0.5792   0.4805   -0.3868   0.4216   1.0877   -2.2493

Columns 533 through 539

  1.8045   -0.6321   1.3165   1.5516   -1.4689   0.1769   3.4663

Columns 540 through 546

 -0.2146   0.4863   0.3309   1.2679   1.0905   -0.9465   -0.4385

Columns 547 through 553

  0.3432   -0.0584   2.5350   0.4386   0.4375   -0.8377   -1.3075

Columns 554 through 560

```
   0.7941   -0.1973    0.6492   -0.8315    0.8960   -1.8135    1.5667
```

Columns 561 through 567

```
   0.8465    0.1102   -1.1611   -0.3975    0.2543    1.2078   -1.0335
```

Columns 568 through 574

```
   1.2951    2.7681   -0.4953    0.4688   -0.6573   -1.7170    1.4705
```

Columns 575 through 581

```
   0.6941   -0.5107    0.1134   -0.2298   -1.4617   -2.8823   -0.0475
```

Columns 582 through 588

```
  -0.4625   -0.5766   -0.8460   -1.8172   -0.5217    0.1614   -1.0618
```

Columns 589 through 595

```
   0.4505   -0.2728   -0.1015   -1.4291   -0.7644    0.4101   -0.7899
```

Columns 596 through 602

```
   0.1616    1.9779    0.7953    1.0374    2.3603    1.1754    0.3977
```

Columns 603 through 609

```
   1.9512   -0.9047   -0.6822    2.0183    0.4543   -0.0421    0.4582
```

Columns 610 through 616

```
  -0.2641   -0.2920   -0.3868   -0.5540   -0.9437   -0.0598   -0.5747
```

Columns 617 through 623

```
   1.4419    0.2355    1.0214   -0.1398   -0.0816    1.2582    1.4685
```

Columns 624 through 630

```
   0.0329    1.6925    0.4757    0.3685    2.1920    1.5357    0.9073
```

Columns 631 through 637

```
   0.4023   -0.5384   -0.1152    1.8220   -2.0215   -0.6370   -0.1888
```

Columns 638 through 644

```
   0.1483   -1.7839    0.5291    0.7297   -0.9401   -0.2593   -1.2135
```

Columns 645 through 651

```
   1.6245    0.3735   -0.2509   -0.9255    0.0987    1.6843    0.2753
```

Columns 652 through 658

  0.3533   -1.2004   0.1661   0.7762   -1.3814   1.1283   2.4654

Columns 659 through 665

 -1.5579   -2.0666   -0.0726   0.7591   -0.0817   -0.1585   0.0065

Columns 666 through 672

 -1.0646   -1.6439   1.5815   0.2926   -1.1876   1.0759   -1.2974

Columns 673 through 679

 -0.1218   0.7408   -0.8407   -0.3495   0.0296   1.9524   0.4590

Columns 680 through 686

 -0.3993   -0.2254   -0.2803   1.3067   -0.2844   -0.7917   0.2406

Columns 687 through 693

 -0.0946   0.7932   0.9594   1.0871   0.6472   0.6326   1.9033

Columns 694 through 700

 -1.1600   -0.3473   -1.6951   0.9194   0.0215   -0.2993   -1.7210

Columns 701 through 707

  0.1834   -0.2597   -1.3548   -1.1574   -0.7620   -0.2503   -1.6488

Columns 708 through 714

 -0.1820   0.6157   -0.3767   -0.6980   0.3041   1.1011   -0.4466

Columns 715 through 721

 -0.4667   -1.4358   -0.9777   0.6059   -0.1137   0.7646   0.6699

Columns 722 through 728

  0.3758   0.7667   1.5235   0.5768   0.4260   -0.0429   -1.2423

Columns 729 through 735

 -0.5050   0.3259   -1.1114   0.4682   0.3226   0.1000   0.3014

Columns 736 through 742

  0.0238   -0.0221   -0.0088   0.9295   -0.0904   -2.6411   -0.4861

Columns 743 through 749

0.1960   0.9597   1.3803   -0.9415   0.7609   0.2379   -0.2084

Columns 750 through 756

0.0247   -0.0281   0.1404   0.2376   -0.6715   -1.0450   0.9658

Columns 757 through 763

-0.2198   1.4145   -0.9242   -0.5941   1.4213   1.4076   -1.0290

Columns 764 through 770

0.2065   1.3411   1.3327   -1.2849   1.6184   0.6616   0.2273

Columns 771 through 777

-0.2256   -0.9660   0.0950   -0.2567   2.3101   0.1901   -0.1734

Columns 778 through 784

-0.0140   -0.6127   2.0718   0.6370   0.0749   1.1233   -0.0331

Columns 785 through 791

-0.0977   -0.5566   -0.6155   1.6046   0.7685   0.0869   1.7044

Columns 792 through 798

0.0236   0.2900   -1.4199   0.4753   -1.4473   -0.9883   0.9494

Columns 799 through 805

0.3512   -0.8723   -0.3981   0.2564   0.2200   -1.7114   -1.2058

Columns 806 through 812

-1.7729   -0.0725   -1.7211   0.7019   -1.0055   -1.1064   1.7906

Columns 813 through 819

2.1624   -0.8193   -0.0370   1.9630   -0.5403   1.7175   0.8198

Columns 820 through 826

0.0555   -0.3531   1.6931   0.7111   -0.6328   0.3927   -0.8780

Columns 827 through 833

0.1489   1.5319   0.5318   -0.7597   0.3480   -0.6978   2.0193

Columns 834 through 840

-1.7937   -0.6595   0.7715   -0.8203   0.0179   0.6545   1.2577

Columns 841 through 847

   -0.9271   -0.1699   -0.4717   -0.1142   0.3695   -0.6186   0.8001

Columns 848 through 854

    0.4267   -0.4723   0.2760   0.9842   0.9931   0.6682   -0.0650

Columns 855 through 861

   -0.6201   0.2241   -0.4661   -0.3321   0.9248   1.4470   0.5958

Columns 862 through 868

    2.0533   -1.5293   0.0227   0.0953   1.6145   0.5013   -0.3238

Columns 869 through 875

    0.5542   0.6424   0.1826   -2.0275   1.0231   -3.4915   0.1095

Columns 876 through 882

   -1.5513   -0.3551   1.3986   -0.5135   1.9172   0.7784   -0.2465

Columns 883 through 889

   -0.9035   -0.4959   0.3745   -2.3705   0.6151   0.2795   0.8189

Columns 890 through 896

    2.0475   -0.3237   -0.9805   1.1796   0.8946   -0.1429   -0.5935

Columns 897 through 903

    0.2489   -1.1298   0.0661   -0.6379   -0.8193   0.9680   0.0303

Columns 904 through 910

    1.3511   -1.0864   0.2403   -1.0462   0.6187   1.3050   1.0235

Columns 911 through 917

   -2.1154   0.6817   0.0087   0.3343   -0.5474   -1.6510   0.8928
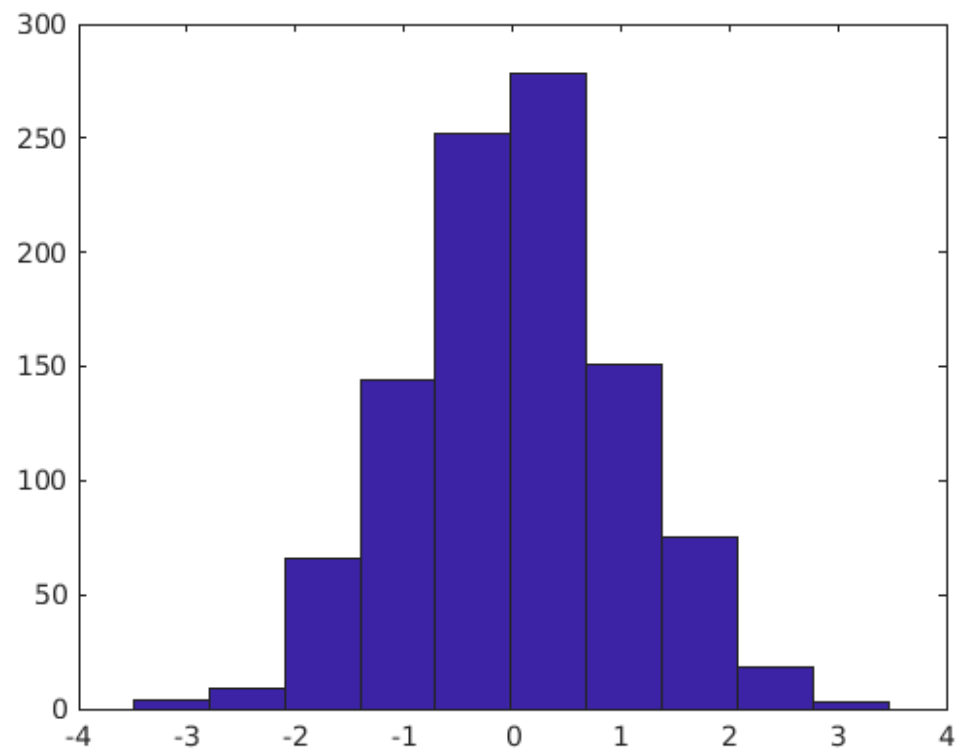
Columns 918 through 924

   -0.5071   -0.3298   0.1684   2.5367   2.2936   -1.3187   -0.4741

Columns 925 through 931

    0.9874   -2.0730   1.2440   -0.3152   1.3993   -0.8799   -0.9225

Columns 932 through 938

```
  2.3144     0.5880    -0.3098    -1.0330     1.1034     0.3421    -2.2640
```

Columns 939 through 945

```
 -0.9033     2.9700    -0.0118    -1.9995    -0.8880    -0.4199     0.6946
```

Columns 946 through 952

```
 -0.1628     0.1016    -0.0179    -0.9603     1.1728    -0.3653    -0.4634
```

Columns 953 through 959

```
  0.1950    -0.0669    -0.5215     0.1271     2.1130     0.5413    -0.6551
```

Columns 960 through 966

```
 -0.8695    -0.2389    -1.5760     1.8258     0.2043    -1.1634     0.1206
```

Columns 967 through 973

```
 -1.4435     0.5823    -0.1815     0.0420     0.3618     0.8537    -0.8098
```

Columns 974 through 980

```
 -1.4671    -0.1039    -0.8229     0.4250    -1.8547     0.8586     0.3064
```

Columns 981 through 987

```
 -1.1116    -0.3172     0.8379     2.4265    -0.3511     1.3820    -0.8607
```

Columns 988 through 994

```
  0.2069    -0.2075     0.3403    -0.4981    -1.4214    -0.2708     0.4397
```

Columns 995 through 1,000

```
 -0.5061    -0.1843     0.4020     0.5392    -0.7336    -0.2684
```

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