SMALL EXAMPLES TO RUN: 12

Ex1:

LP\_generator(2, 2, 3);

Number of Iterations: 13

x7 = 0.940373

x8 = 0.329193

x9 = 0.771429

x10 = 7.980392

x11 = 9.470588

x12 = 6.294118

x19 = 646.000000

x20 = 227.000000

x21 = 652.000000

x22 = 187.079235

x23 = 553.200219

x24 = 795.934454

z\* = -16252.766192

The LP is infeasible

Elapsed time is 0.0567281 seconds.

Ex2:

LP\_generator(2, 3, 2);

*Number of Iterations: 12*

*x1 = 0.147343*

*x8 = 0.526055*

*x9 = 3.218182*

*x10 = 8.354545*

*x5 = 0.075758*

*x6 = 13.393939*

*x19 = 39.776899*

*x20 = 167.606061*

*x21 = 956.781818*

*x22 = 723.119400*

*z\* = -22192.906984*

*The LP is infeasible*

*Elapsed time is 0.0125051 seconds.*

Ex3;

LP\_generator(3, 2, 2);

Number of Iterations: 9

x5 = 0.687933

x6 = 0.407767

x11 = 2.099678

x12 = 3.209003

x17 = 286.000000

x18 = 126.000000

x19 = 911.312067

x20 = 246.592233

x21 = 902.900322

x22 = 63.790997

z\* = -2087.608194

The LP is infeasible

Elapsed time is 0.0100791 seconds.

Ex4;

LP\_generator(2, 1, 6);

Number of Iterations: 13

x7 = 2.459016

x8 = 4.704918

x9 = 10.327869

x10 = 12.868852

x11 = 7.344262

x12 = 6.245902

x19 = 554.000000

x20 = 549.000000

x21 = 559.000000

x22 = 511.000000

x23 = 430.000000

x24 = 615.000000

x25 = 286.540984

x26 = 357.295082

x27 = 778.672131

x28 = 821.131148

x29 = 321.655738

x30 = 205.754098

z\* = -17175.180328

The LP is infeasible

Elapsed time is 0.019556 seconds.

Ex5;

LP\_generator(1, 2, 6);

Solution found!

Number of Iterations: 13

x1 = 0.455455

x2 = 0.532533

x3 = 0.900901

x4 = 0.329329

x5 = 0.248248

x6 = 0.484484

x7 = 0.596774

x8 = 0.830645

x9 = 0.637097

x10 = 1.955645

x11 = 0.506048

x12 = 0.054435

x25 = 460.947770

x26 = 52.636822

x27 = 728.462002

x28 = 145.715026

x29 = 911.245703

x30 = 674.461080

z\* = -3234.077632

The LP is infeasible

Elapsed time is 0.0198212 seconds.

Ex6;

LP\_generator(6, 2, 1);

Solution found!

Number of Iterations: 5

x5 = 57.200000

x12 = 4.866667

x15 = 30.000000

x16 = 615.000000

x17 = 40.800000

x18 = 40.000000

x19 = 361.000000

x20 = 427.133333

z\* = -34864.000000

The LP is infeasible

Elapsed time is 0.00550604 seconds.

Ex7;

LP\_generator(6, 1, 2);

x5 = 6.833333

x6 = 3.592593

x15 = 80.000000

x16 = 196.000000

x17 = 445.000000

x18 = 723.000000

x19 = 499.166667

x20 = 850.407407

x21 = 308.000000

x22 = 25.000000

x23 = 654.000000

x24 = 797.000000

x25 = 783.000000

x26 = 14.000000

z\* = -3958.333333

The LP is infeasible

Elapsed time is 0.00850606 seconds.

Ex8;

疫x1 = 0.518987

x2 = 0.108499

x3 = 0.359942

x4 = 0.991292

x5 = 1.878049

x6 = 0.400000

x7 = 0.761236

x8 = 0.358146

x9 = 1.064865

x10 = 0.237838

x11 = 0.492574

x12 = 0.935644

x25 = 587.924347

x26 = 183.968582

z\* = -5309.973992

The LP is infeasible

Elapsed time is 0.016036 seconds.

Ex9:

LP\_generator(2, 6, 1);

Number of Iterations: 13

x1 = 0.487179

x2 = 0.132565

x3 = 8.816514

x10 = 0.252049

x5 = 0.129293

x12 = 7.685950

x19 = 565.434449

x20 = 527.062000

z\* = -7552.662740

The LP is infeasible

Elapsed time is 0.0120041 seconds.

Ex10:

LP\_generator(3, 4, 1);

Solution found!

Number of Iterations: 9

x9 = 0.558333

x6 = 4.148515

x7 = 3.029661

x8 = 4.570707

x17 = 789.000000

x18 = 937.251117

x19 = 112.441667

z\* = -1937.066891

The LP is infeasible

Elapsed time is 0.008008 seconds.

Ex11:

LP\_generator(1, 4, 3);Number of Iterations: 13

x1 = 1.356061

x2 = 2.772727

x3 = 7.219697

x4 = 0.337884

x5 = 0.078498

x6 = 1.097270

x7 = 0.319018

x8 = 0.881902

x9 = 0.354294

x10 = 0.993492

x11 = 1.798265

x12 = 1.028200

x25 = 455.993545

x26 = 444.468608

x27 = 356.300539

z\* = -9405.428975

The LP is infeasible

Elapsed time is 0.02004 seconds.

Ex12:

LP\_generator(3, 1, 4);

Solution found!

Number of Iterations: 9

x5 = 1.449275

x6 = 3.391304

x7 = 3.775362

x8 = 0.094203

x17 = 384.000000

x18 = 563.000000

x19 = 112.000000

x20 = 788.000000

x21 = 773.550725

x22 = 738.608696

x23 = 639.224638

x24 = 73.905797

x25 = 92.000000

x26 = 16.000000

x27 = 291.000000

x28 = 601.000000

z\* = -4311.427536

The LP is infeasible

Elapsed time is 0.013521 seconds.

Ex13:

LP\_generator(4,1, 3);

Solution found!

Number of Iterations: 7

x1 = 2.162162

x2 = 1.118919

x3 = 2.443243

x16 = 96.837838

x17 = 304.881081

x18 = 710.556757

x19 = 74.000000

x20 = 630.000000

x21 = 983.000000

x22 = 676.000000

x23 = 416.000000

x24 = 98.000000

x25 = 979.000000

x26 = 521.000000

x27 = 653.000000

z\* = -2081.275676

The LP is infeasible

Elapsed time is 0.0115111 seconds.

Ex14:

LP\_generator(3,2, 3);

Number of Iterations: 13

x13 = 1.829787

x14 = 1.909574

x15 = 1.188830

x4 = 1.427844

x5 = 0.634975

x12 = 0.809836

x25 = 17.572156

x26 = 210.365025

x27 = 409.000000

x28 = 466.000000

x29 = 105.000000

x30 = 574.190164

x31 = 350.170213

x32 = 453.090426

x33 = 720.811170

z\* = -2128.109750

The LP is infeasible

Elapsed time is 0.017065 seconds.

>>

4\*8

2\*16

MEDIUM EXAMPLES TO RUN: 32

Ex15:

LP\_generator(2, 2, 4);

狹

Number of Iterations: 16

x1 = 1.887399

x2 = 2.544236

x11 = 2.482234

x4 = 2.442359

x5 = 1.912088

x6 = 9.142857

x7 = 4.989011

x8 = 10.175824

x25 = 147.200513

x26 = 967.312907

x27 = 375.010989

x28 = 850.381817

x29 = 934.000000

x30 = 507.000000

x31 = 535.517766

x32 = 716.000000

z\* = -8687.368742

The LP is infeasible

Elapsed time is 0.0202818 seconds.

Ex16:

LP\_generator(2, 4, 2);

Number of Iterations: 16

x9 = 1.069217

x2 = 0.994526

x11 = 0.829787

x12 = 2.101064

x5 = 2.419913

x6 = 2.536797

x7 = 4.550000

x8 = 3.942857

x25 = 286.030087

x26 = 80.525821

x27 = 382.100996

x28 = 327.898936

z\* = -9021.714038

The LP is infeasible

Elapsed time is 0.0169871 seconds.

Ex17:

LP\_generator(4, 2, 2);

Solution found!

Number of Iterations: 10

x13 = 14.100000

x14 = 21.850000

x3 = 0.409871

x4 = 1.697425

x21 = 323.590129

x22 = 950.302575

x23 = 769.000000

x24 = 964.000000

x25 = 720.000000

x26 = 328.000000

x27 = 32.900000

x28 = 549.150000

z\* = -26645.974678

The LP is infeasible

Elapsed time is 0.0115552 seconds.

Ex18:

LP\_generator(2, 2, 8);

Solution found!

Number of Iterations: 33

x17 = 2.942857

x18 = 1.074286

x19 = 2.554286

x20 = 3.645714

x21 = 1.720000

x22 = 4.857143

x7 = 1.060901

x24 = 5.297143

x25 = 0.303797

x26 = 8.873418

x27 = 10.974684

x28 = 2.278481

x29 = 11.291139

x30 = 0.075949

x31 = 1.848101

x32 = 4.417722

x49 = 547.000000

x50 = 877.000000

x51 = 109.000000

x52 = 640.000000

x53 = 808.000000

x54 = 51.000000

x55 = 155.939099

x56 = 570.000000

x57 = 944.753345

x58 = 506.052297

x59 = 245.471031

x60 = 174.075805

x61 = 370.988861

x62 = 792.066908

x23 = 0.151899

x64 = 11.285136

z\* = -27668.905866

The LP is infeasible

Elapsed time is 0.0593801 seconds.

Ex19:

LP\_generator(8, 2, 2);

Solution found!

Number of Iterations: 9

x21 = 2.214286

x22 = 4.758929

x19 = 19.294118

x20 = 28.176471

x37 = 180.000000

x38 = 967.000000

x39 = 761.000000

x40 = 361.000000

x41 = 700.000000

x42 = 986.000000

x43 = 951.000000

x44 = 543.000000

x45 = 833.705882

x46 = 58.823529

x47 = 713.785714

x48 = 360.241071

x49 = 504.000000

x50 = 493.000000

x51 = 882.000000

x52 = 344.000000

z\* = -29733.237395

The LP is infeasible

Elapsed time is 0.0165219 seconds.

Ex20:

LP\_generator(2, 8, 2);

Number of Iterations: 33

x1 = 1.576000

x2 = 1.228800

x19 = 0.635789

x20 = 0.338947

x5 = 0.197007

x6 = 1.329177

x23 = 3.522013

x24 = 5.849057

x25 = 1.658228

x26 = 0.691983

x11 = 5.400000

x12 = 5.233333

x13 = 2.672840

x14 = 0.672840

x31 = 0.890430

x32 = 1.023578

x49 = 483.154153

x50 = 38.535850

x51 = 467.293540

x52 = 506.096435

z\* = -22588.841465

The LP is infeasible

Elapsed time is 0.0405278 seconds.

Ex21:

LP\_generator(4, 2, 4);

Solution found!

Number of Iterations: 18

x17 = 1.480263

x18 = 3.842105

x19 = 0.328947

x20 = 2.914474

x29 = 5.451613

x30 = 19.161290

x31 = 26.935484

x32 = 13.903226

x41 = 120.000000

x42 = 568.000000

x43 = 734.000000

x44 = 507.000000

x45 = 324.000000

x46 = 624.000000

x47 = 719.000000

x48 = 924.000000

x49 = 270.519737

x50 = 44.157895

x51 = 863.671053

x52 = 723.085526

x53 = 255.548387

x54 = 718.838710

x55 = 475.064516

x56 = 116.096774

z\* = -26166.547538

The LP is infeasible

Elapsed time is 0.030036 seconds.

Ex22:

LP\_generator(4, 4, 2);

Number of Iterations: 18

x17 = 8.918919

x18 = 3.288288

x27 = 1.832599

x28 = 3.515419

x5 = 0.568513

x6 = 0.708455

x23 = 0.551402

x24 = 1.275701

x41 = 352.431487

x42 = 351.291545

x43 = 774.000000

x44 = 585.000000

x45 = 81.529679

x46 = 822.436011

x47 = 179.167401

x48 = 596.484581

z\* = -7608.786800

The LP is infeasible

Elapsed time is 0.021528 seconds.

Ex23:

LP\_generator(2, 4, 4);

Number of Iterations: 33

x1 = 32.588235

x2 = 53.764706

x3 = 27.235294

x4 = 40.588235

x21 = 3.837607

x22 = 4.239316

x23 = 3.068376

x24 = 5.256410

x9 = 0.407925

x10 = 1.839161

x11 = 0.606061

x12 = 0.755245

x29 = 9.230769

x30 = 11.107692

x31 = 3.646154

x32 = 8.261538

x49 = 599.003839

x50 = 466.396133

x51 = 843.158645

x52 = 370.656520

x53 = 932.931624

x54 = 197.652991

x55 = 192.285470

x56 = 869.482051

z\* = -130144.946689

The LP is infeasible

Elapsed time is 0.0473249 seconds.

Ex24:

LP\_generator(1, 2, 16);

Number of Iterations: 33

x1 = 0.633172

x2 = 0.646489

x3 = 0.981840

x4 = 0.532688

x5 = 0.246973

x6 = 0.395884

x7 = 0.108959

x8 = 0.894673

x9 = 0.082324

x10 = 0.766344

x11 = 0.542373

x12 = 0.778450

x13 = 0.180387

x14 = 0.966102

x15 = 0.692494

x16 = 0.874092

x17 = 1.873418

x18 = 1.727848

x19 = 2.240506

x20 = 2.582278

x21 = 0.506329

x22 = 1.575949

x23 = 3.512658

x24 = 4.120253

x25 = 6.208861

x26 = 3.170886

x27 = 1.291139

x28 = 1.196203

x29 = 1.860759

x30 = 5.512658

x31 = 1.601266

x32 = 2.310127

x65 = 538.493410

x66 = 532.625663

x67 = 873.777653

x68 = 190.885034

x69 = 498.246698

x70 = 253.028167

x71 = 633.378383

x72 = 832.985074

x73 = 591.708815

x74 = 159.062770

x75 = 483.166488

x76 = 195.025347

x77 = 543.958853

x78 = 3.521240

x79 = 274.706240

x80 = 384.815781

z\* = -22769.817866

The LP is infeasible

Elapsed time is 0.097399 seconds.

Ex25:

LP\_generator(16, 1, 2);

Number of Iterations: 5

x11 = 20.351351

x12 = 15.432432

x35 = 201.000000

x36 = 415.000000

x37 = 478.000000

x38 = 365.000000

x39 = 522.000000

x40 = 888.000000

x41 = 986.000000

x42 = 531.000000

x43 = 409.000000

x44 = 339.000000

x45 = 965.648649

x46 = 675.567568

x47 = 500.000000

x48 = 669.000000

x49 = 81.000000

x50 = 296.000000

x51 = 99.000000

x52 = 735.000000

x53 = 711.000000

x54 = 989.000000

x55 = 388.000000

x56 = 998.000000

x57 = 684.000000

x58 = 766.000000

x59 = 414.000000

x60 = 910.000000

x61 = 713.000000

x62 = 331.000000

x63 = 115.000000

x64 = 534.000000

x65 = 681.000000

x66 = 389.000000

z\* = -23808.756757

The LP is infeasible

Elapsed time is 0.027019 seconds.

Ex26:

LP\_generator(1, 4, 8);

Number of Iterations: 33

x1 = 0.856164

x2 = 2.890411

x3 = 6.301370

x4 = 4.547945

x5 = 3.458904

x6 = 1.746575

x7 = 3.150685

x8 = 3.246575

x9 = 3.065327

x10 = 3.075377

x11 = 0.201005

x12 = 0.447236

x13 = 4.376884

x14 = 3.537688

x15 = 2.175879

x16 = 0.286432

x17 = 12.739130

x18 = 12.956522

x19 = 10.456522

x20 = 5.652174

x21 = 17.804348

x22 = 10.978261

x23 = 12.956522

x24 = 15.391304

x25 = 0.051181

x26 = 1.740157

x27 = 0.982283

x28 = 0.942913

x29 = 1.190945

x30 = 1.265748

x31 = 0.023622

x32 = 1.525591

x65 = 366.288197

x66 = 892.337533

x67 = 618.058820

x68 = 711.409731

x69 = 921.168919

x70 = 386.471727

x71 = 615.693292

x72 = 328.550098

z\* = -80299.645364

The LP is infeasible

Elapsed time is 0.077054 seconds.

Ex27:

LP\_generator(4, 8, 1);

Number of Iterations: 17

x25 = 1.463343

x18 = 12.391892

x27 = 1.363636

x12 = 10.140845

x29 = 0.228070

x30 = 0.791667

x15 = 1.715278

x8 = 1.149533

x41 = 409.850467

x42 = 566.143877

x43 = 844.608108

x44 = 386.153284

z\* = -18278.909960

The LP is infeasible

Elapsed time is 0.0185261 seconds.

Ex28:

LP\_generator(8, 1,4);

Solution found!

Number of Iterations: 9

x21 = 0.018293

x22 = 2.957317

x23 = 4.067073

x24 = 3.286585

x37 = 413.000000

x38 = 189.000000

x39 = 617.000000

x40 = 663.000000

x41 = 670.000000

x42 = 105.000000

x43 = 907.000000

x44 = 994.000000

x45 = 736.000000

x46 = 441.000000

x47 = 951.000000

x48 = 132.000000

x49 = 888.000000

x50 = 210.000000

x51 = 940.000000

x52 = 538.000000

x53 = 811.000000

x54 = 487.000000

x55 = 828.000000

x56 = 279.000000

x57 = 197.981707

x58 = 391.042683

x59 = 651.932927

x60 = 300.713415

x61 = 636.000000

x62 = 290.000000

x63 = 302.000000

x64 = 552.000000

x65 = 223.000000

x66 = 721.000000

x67 = 801.000000

x68 = 688.000000

z\* = -5721.707317

The LP is infeasible

Elapsed time is 0.0355601 seconds.

2\*26

4\*13

LARGE EXAMPLES TO RUN: 52

Ex29:

LP\_generator(2, 2, 13);

Number of Iterations: 53

x27 = 1.195181

x28 = 1.339759

x29 = 1.014458

x30 = 1.585542

x31 = 1.874699

x32 = 0.537349

x33 = 1.932530

x34 = 2.163855

x35 = 0.057831

x36 = 2.269880

x37 = 1.609639

x38 = 0.031325

x39 = 0.137349

x40 = 1.752577

x41 = 2.938144

x42 = 1.587629

x43 = 2.821306

x44 = 1.326460

x45 = 0.536082

x46 = 2.979381

x47 = 0.264605

x48 = 2.237113

x49 = 1.457045

x50 = 1.962199

x51 = 0.587629

x52 = 1.989691

x79 = 796.000000

x80 = 787.000000

x81 = 819.000000

x82 = 241.000000

x83 = 468.000000

x84 = 205.000000

x85 = 73.000000

x86 = 902.000000

x87 = 168.000000

x88 = 347.000000

x89 = 413.000000

x90 = 382.000000

x91 = 731.000000

x92 = 807.052242

x93 = 154.722097

x94 = 365.397913

x95 = 313.593152

x96 = 288.798841

x97 = 747.926568

x98 = 122.088088

x99 = 738.571540

x100 = 800.705055

x101 = 745.273076

x102 = 875.428162

x103 = 347.381046

x104 = 818.872960

z\* = -24336.725285

The LP is infeasible

Elapsed time is 0.138704 seconds.

Ex30:

LP\_generator(2, 13, 2);

Solution found!

Number of Iterations: 51

x27 = 4.179775

x28 = 1.264045

x29 = 3.524229

x30 = 1.449339

x31 = 0.789934

x6 = 0.706085

x33 = 2.845528

x34 = 3.796748

x9 = 46.000000

x10 = 45.857143

x37 = 1.495690

x38 = 0.086207

x39 = 2.089974

x40 = 1.910026

x41 = 0.831972

x16 = 0.339578

x43 = 1.619303

x44 = 2.654155

x45 = 9.402299

x46 = 9.275862

x21 = 8.662500

x22 = 5.362500

x49 = 10.000000

x50 = 15.333333

x51 = 0.495238

x52 = 0.679365

x79 = 58.337500

x80 = 723.734694

x81 = 8.726057

x82 = 430.550919

z\* = -95124.311192

The LP is infeasible

Elapsed time is 0.077548 seconds.

Ex31:

LP\_generator(13, 2, 2);

Number of Iterations: 9

x21 = 9.666667

x22 = 32.333333

x3 = 3.902778

x4 = 6.062500

x57 = 649.097222

x58 = 869.937500

x59 = 214.000000

x60 = 751.000000

x61 = 570.000000

x62 = 752.000000

x63 = 522.000000

x64 = 309.000000

x65 = 242.000000

x66 = 590.000000

x67 = 721.333333

x68 = 330.666667

x69 = 432.000000

x70 = 874.000000

x71 = 178.000000

x72 = 550.000000

x73 = 548.000000

x74 = 844.000000

x75 = 288.000000

x76 = 881.000000

x77 = 318.000000

x78 = 944.000000

x79 = 434.000000

x80 = 748.000000

x81 = 964.000000

x82 = 750.000000

z\* = -40157.597222

The LP is infeasible

Elapsed time is 0.027554 seconds.

Ex32:

LP\_generator(2, 26, 1);

Number of Iterations: 34

x27 = 0.518090

x28 = 14.803571

x29 = 0.295129

x4 = 2.706271

x31 = 0.923188

x6 = 1.559583

x33 = 0.158643

x34 = 2.152225

x35 = 2.229469

x36 = 0.839535

x11 = 1.088561

x38 = 0.749546

x39 = 75.833333

x14 = 0.513426

x15 = 0.009027

x16 = 2.374302

x43 = 0.605653

x44 = 0.351020

x45 = 2.101075

x46 = 2.552743

x21 = 1.815584

x48 = 0.157047

x49 = 2.794521

x50 = 0.916667

x51 = 0.458797

x52 = 1.352174

x10 = 785.933246

x32 = 7.207574

z\* = -404877.000000

Elapsed time is 0.0535429 seconds.

Ex33:

LP\_generator(1, 26, 2);

Number of Iterations: 53

x1 = 12.389831

x2 = 15.915254

x3 = 0.981221

x4 = 1.861502

x5 = 0.239719

x6 = 0.473420

x7 = 0.091640

x8 = 1.167203

x9 = 2.018182

x10 = 2.377273

x11 = 0.594955

x12 = 1.158754

x13 = 0.914253

x14 = 0.935110

x15 = 0.360759

x16 = 0.728903

x17 = 0.119548

x18 = 0.305331

x19 = 3.556818

x20 = 2.098485

x21 = 1.038462

x22 = 1.521368

x23 = 0.570191

x24 = 0.544194

x25 = 1.032258

x26 = 2.844575

x27 = 1.668687

x28 = 1.830303

x29 = 0.101695

x30 = 3.885593

x31 = 0.650000

x32 = 0.037037

x33 = 0.380544

x34 = 1.241774

x35 = 1.688042

x36 = 1.320624

x37 = 0.831193

x38 = 0.016514

x39 = 7.655738

x40 = 15.295082

x41 = 0.391768

x42 = 0.024390

x43 = 0.092000

x44 = 0.948000

x45 = 0.620413

x46 = 0.482798

x47 = 0.815514

x48 = 0.960168

x49 = 10.870370

x50 = 6.333333

x51 = 1.123239

x52 = 0.561033

x105 = 796.202962

x106 = 188.131979

z\* = -74568.038105

The LP is infeasible

Elapsed time is 0.141099 seconds.

>>

Ex34:

LP\_generator(2, 1, 26);

Solution found!

Number of Iterations: 53

x27 = 0.567878

x28 = 0.397706

x29 = 1.277247

x30 = 0.099426

x31 = 1.565966

x32 = 0.969407

x33 = 1.042065

x34 = 0.734226

x35 = 1.217973

x36 = 1.284895

x37 = 0.984704

x38 = 0.149140

x39 = 1.370937

x40 = 1.055449

x41 = 1.652008

x42 = 0.527725

x43 = 0.447419

x44 = 1.567878

x45 = 1.770554

x46 = 0.347992

x47 = 1.428298

x48 = 1.223709

x49 = 1.304015

x50 = 1.305927

x51 = 0.021033

x52 = 0.414914

x79 = 698.000000

x80 = 462.000000

x81 = 81.000000

x82 = 3.000000

x83 = 152.000000

x84 = 878.000000

x85 = 66.000000

x86 = 954.000000

x87 = 252.000000

x88 = 12.000000

x89 = 564.000000

x90 = 852.000000

x91 = 978.000000

x92 = 228.000000

x93 = 936.000000

x94 = 611.000000

x95 = 447.000000

x96 = 199.000000

x97 = 328.000000

x98 = 694.000000

x99 = 805.000000

x100 = 609.000000

x101 = 731.000000

x102 = 676.000000

x103 = 635.000000

x104 = 723.000000

x105 = 710.432122

x106 = 196.602294

x107 = 941.722753

x108 = 868.900574

x109 = 196.434034

x110 = 808.030593

x111 = 99.957935

x112 = 850.265774

x113 = 124.782027

x114 = 132.715105

x115 = 431.015296

x116 = 370.850860

x117 = 755.629063

x118 = 234.944551

x119 = 186.347992

x120 = 51.472275

x121 = 471.552581

x122 = 356.432122

x123 = 536.229446

x124 = 697.652008

x125 = 952.571702

x126 = 276.776291

x127 = 326.695985

x128 = 713.694073

x129 = 595.978967

x130 = 699.585086

z\* = -13287.956023

The LP is infeasible

Elapsed time is 0.237757 seconds.

Ex35:

LP\_generator(1, 2, 26);

Number of Iterations: 53

x1 = 0.760211

x2 = 0.249012

x3 = 0.994730

x4 = 0.994730

x5 = 0.342556

x6 = 0.839262

x7 = 0.669302

x8 = 0.243742

x9 = 0.918314

x10 = 1.077734

x11 = 0.959157

x12 = 1.258235

x13 = 0.557312

x14 = 0.808959

x15 = 0.179183

x16 = 0.837945

x17 = 0.807642

x18 = 0.185771

x19 = 0.505929

x20 = 0.251647

x21 = 0.268775

x22 = 0.266140

x23 = 0.475626

x24 = 0.442688

x25 = 1.026350

x26 = 0.606061

x27 = 2.422604

x28 = 2.302211

x29 = 0.012285

x30 = 0.297297

x31 = 0.980344

x32 = 1.857494

x33 = 1.221130

x34 = 0.904177

x35 = 1.965602

x36 = 2.398034

x37 = 1.004914

x38 = 0.081081

x39 = 1.297297

x40 = 1.975430

x41 = 0.164619

x42 = 0.781327

x43 = 0.127764

x44 = 0.095823

x45 = 0.469287

x46 = 1.285012

x47 = 1.678133

x48 = 0.884521

x49 = 1.275184

x50 = 0.447174

x51 = 1.766585

x52 = 2.046683

x105 = 301.817185

x106 = 373.448777

x107 = 55.992985

x108 = 184.707973

x109 = 489.677100

x110 = 696.303244

x111 = 744.109568

x112 = 707.852081

x113 = 404.116084

x114 = 791.524232

x115 = 435.035929

x116 = 24.660684

x117 = 757.145390

x118 = 698.215611

x119 = 482.656198

x120 = 675.380729

x121 = 69.064594

x122 = 839.718406

x123 = 551.024784

x124 = 799.463341

x125 = 991.053093

x126 = 726.849339

x127 = 61.249190

x128 = 633.110138

x129 = 42.207065

x130 = 297.347256

z\* = -17982.932201

The LP is infeasible

Elapsed time is 0.224426 seconds.

Ex36:

LP\_generator(26, 1, 2);

Solution found!

Number of Iterations: 5

x37 = 60.750000

x38 = 93.375000

x55 = 88.000000

x56 = 709.000000

x57 = 771.000000

x58 = 794.000000

x59 = 902.000000

x60 = 101.000000

x61 = 54.000000

x62 = 32.000000

x63 = 646.000000

x64 = 698.000000

x65 = 938.000000

x66 = 498.000000

x67 = 557.000000

x68 = 330.000000

x69 = 0.000000

x70 = 5.000000

x71 = 116.000000

x72 = 82.000000

x73 = 365.000000

x74 = 549.000000

x75 = 148.000000

x76 = 645.000000

x77 = 425.000000

x78 = 688.000000

x79 = 446.000000

x80 = 959.000000

x81 = 634.000000

x82 = 130.000000

x83 = 765.000000

x84 = 790.000000

x85 = 579.000000

x86 = 731.000000

x87 = 867.000000

x88 = 148.000000

x89 = 885.000000

x90 = 980.000000

x91 = 64.250000

x92 = 566.625000

x93 = 524.000000

x94 = 140.000000

x95 = 294.000000

x96 = 816.000000

x97 = 674.000000

x98 = 725.000000

x99 = 447.000000

x100 = 365.000000

x101 = 467.000000

x102 = 935.000000

x103 = 788.000000

x104 = 5.000000

x105 = 968.000000

x106 = 909.000000

z\* = -102322.125000

The LP is infeasible

Elapsed time is 0.058475 seconds.

Ex37:

LP\_generator(26, 2, 1);

Solution found!

Number of Iterations: 6

x33 = 15.261905

x48 = 12.135135

x55 = 971.000000

x56 = 554.000000

x57 = 411.000000

x58 = 508.000000

x59 = 211.000000

x60 = 830.000000

x61 = 17.000000

x62 = 263.000000

x63 = 321.000000

x64 = 773.000000

x65 = 474.000000

x66 = 259.000000

x67 = 503.000000

x68 = 381.000000

x69 = 29.000000

x70 = 771.000000

x71 = 162.738095

x72 = 172.000000

x73 = 757.000000

x74 = 603.000000

x75 = 882.000000

x76 = 350.000000

x77 = 151.000000

x78 = 282.864865

x79 = 847.000000

x80 = 736.000000

z\* = -9671.805019

The LP is infeasible

Elapsed time is 0.0215151 seconds.

Ex38:

LP\_generator(1, 4, 13);

Number of Iterations: 53

x1 = 1.853147

x2 = 0.384615

x3 = 2.727273

x4 = 2.227273

x5 = 2.013986

x6 = 2.926573

x7 = 1.269231

x8 = 2.709790

x9 = 2.979021

x10 = 1.912587

x11 = 2.202797

x12 = 1.391608

x13 = 0.604895

x14 = 0.660088

x15 = 0.743421

x16 = 1.291667

x17 = 1.910088

x18 = 0.925439

x19 = 0.445175

x20 = 1.655702

x21 = 1.798246

x22 = 0.736842

x23 = 1.605263

x24 = 0.214912

x25 = 2.002193

x26 = 1.252193

x27 = 1.462366

x28 = 0.923195

x29 = 0.639017

x30 = 0.812596

x31 = 1.288786

x32 = 1.230415

x33 = 0.093702

x34 = 0.841782

x35 = 1.288786

x36 = 1.387097

x37 = 1.133641

x38 = 1.192012

x39 = 0.062980

x40 = 0.289474

x41 = 1.502193

x42 = 0.921053

x43 = 1.083333

x44 = 0.326754

x45 = 1.006579

x46 = 0.298246

x47 = 2.125000

x48 = 1.032895

x49 = 0.951754

x50 = 0.291667

x51 = 2.107456

x52 = 0.006579

x105 = 262.734926

x106 = 427.446575

x107 = 77.420991

x108 = 20.966710

x109 = 293.445035

x110 = 965.391257

x111 = 953.683120

x112 = 186.525182

x113 = 707.962456

x114 = 214.143298

x115 = 435.156983

x116 = 777.306730

x117 = 341.073353

z\* = -32899.980675

The LP is infeasible

Elapsed time is 0.178068 seconds.

>>

Ex39:

LP\_generator(4, 1, 13);

Number of Iterations: 27

x27 = 6.296296

x28 = 3.935185

x29 = 6.453704

x30 = 8.935185

x31 = 4.888889

x32 = 7.750000

x33 = 7.851852

x34 = 0.212963

x35 = 5.944444

x36 = 1.740741

x37 = 6.462963

x38 = 2.333333

x39 = 9.240741

x66 = 298.000000

x67 = 418.000000

x68 = 512.000000

x69 = 635.000000

x70 = 928.000000

x71 = 366.000000

x72 = 63.000000

x73 = 738.000000

x74 = 859.000000

x75 = 478.000000

x76 = 580.000000

x77 = 135.000000

x78 = 307.000000

x79 = 155.000000

x80 = 354.000000

x81 = 857.000000

x82 = 35.000000

x83 = 757.000000

x84 = 393.000000

x85 = 230.000000

x86 = 868.000000

x87 = 320.000000

x88 = 932.000000

x89 = 863.000000

x90 = 614.000000

x91 = 986.000000

x92 = 958.703704

x93 = 392.064815

x94 = 512.546296

x95 = 488.064815

x96 = 565.111111

x97 = 962.250000

x98 = 668.148148

x99 = 366.787037

x100 = 942.055556

x101 = 892.259259

x102 = 270.537037

x103 = 782.666667

x104 = 592.759259

x105 = 192.000000

x106 = 448.000000

x107 = 691.000000

x108 = 560.000000

x109 = 733.000000

x110 = 841.000000

x111 = 534.000000

x112 = 249.000000

x113 = 877.000000

x114 = 454.000000

x115 = 674.000000

x116 = 792.000000

x117 = 263.000000

z\* = -35204.537037

The LP is infeasible

Elapsed time is 0.134595 seconds.

Ex40:

LP\_generator(1, 13, 4);

Solution found!

Number of Iterations: 53

x1 = 4.263889

x2 = 6.083333

x3 = 5.756944

x4 = 1.645833

x5 = 0.775281

x6 = 6.764045

x7 = 5.179775

x8 = 0.471910

x9 = 1.622328

x10 = 2.239905

x11 = 0.171021

x12 = 1.862233

x13 = 0.713930

x14 = 1.572139

x15 = 0.504975

x16 = 0.728856

x17 = 14.210526

x18 = 9.473684

x19 = 23.315789

x20 = 34.789474

x21 = 1.064087

x22 = 0.689238

x23 = 0.720677

x24 = 1.009674

x25 = 0.403927

x26 = 0.869565

x27 = 0.148668

x28 = 0.096774

x29 = 0.688264

x30 = 1.165037

x31 = 0.546455

x32 = 1.147922

x33 = 4.639456

x34 = 4.700680

x35 = 2.142857

x36 = 4.782313

x37 = 0.700431

x38 = 1.312500

x39 = 1.668103

x40 = 0.905172

x41 = 0.202080

x42 = 0.867756

x43 = 0.463596

x44 = 0.202080

x45 = 1.484694

x46 = 0.727041

x47 = 0.594388

x48 = 0.298469

x49 = 2.706081

x50 = 1.239865

x51 = 0.385135

x52 = 2.527027

x105 = 277.525026

x106 = 364.295211

x107 = 911.401615

x108 = 776.532263

z\* = -76326.340087

The LP is infeasible

Elapsed time is 0.148181 seconds.

Ex41:

LP\_generator(4, 13, 1);

Solution found!

Number of Iterations: 27

x27 = 0.676190

x15 = 5.370130

x16 = 12.186667

x17 = 0.134615

x31 = 16.888889

x45 = 0.636364

x46 = 39.809524

x34 = 4.514286

x48 = 1.252747

x23 = 1.579710

x50 = 0.497006

x51 = 1.152047

x52 = 0.591093

x66 = 242.000000

x67 = 402.728878

x68 = 516.920635

x69 = 680.061219

z\* = -38748.605729

The LP is infeasible

Elapsed time is 0.0312619 seconds.

Ex42:

LP\_generator(13, 1,4);

Solution found!

Number of Iterations: 10

x1 = 21.812500

x2 = 21.218750

x3 = 20.218750

x4 = 8.843750

x57 = 783.187500

x58 = 902.781250

x59 = 607.781250

x60 = 111.156250

x61 = 250.000000

x62 = 592.000000

x63 = 35.000000

x64 = 905.000000

x65 = 480.000000

x66 = 442.000000

x67 = 220.000000

x68 = 986.000000

x69 = 901.000000

x70 = 117.000000

x71 = 127.000000

x72 = 493.000000

x73 = 383.000000

x74 = 361.000000

x75 = 448.000000

x76 = 664.000000

x77 = 47.000000

x78 = 376.000000

x79 = 580.000000

x80 = 208.000000

x81 = 564.000000

x82 = 830.000000

x83 = 471.000000

x84 = 202.000000

x85 = 534.000000

x86 = 781.000000

x87 = 966.000000

x88 = 574.000000

x89 = 828.000000

x90 = 578.000000

x91 = 355.000000

x92 = 173.000000

x93 = 188.000000

x94 = 119.000000

x95 = 636.000000

x96 = 635.000000

x97 = 812.000000

x98 = 948.000000

x99 = 804.000000

x100 = 216.000000

x101 = 598.000000

x102 = 736.000000

x103 = 321.000000

x104 = 517.000000

x105 = 925.000000

x106 = 199.000000

x107 = 381.000000

x108 = 52.000000

z\* = -27372.875000

The LP is infeasible

Elapsed time is 0.0729551 seconds.