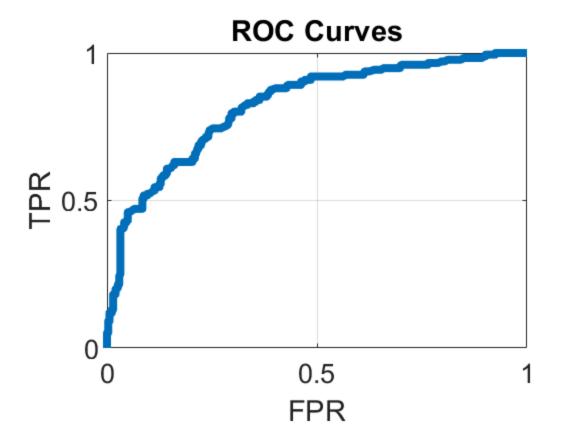
Table of Contents

ROC(["glu","npreg","bp"],T);

```
%Name: David George
    %Student Num: 251004930
   T = readtable("diabetes-pima.csv");
    % Converting to binary
   d = string(T.diabetic);
   binaryVal = d == "Yes";
   T.binaryDiabetic = binaryVal;
   T = changeToNaN(T);
A)
   dp([1,2,6],["bmi","npreg","bp"],T);
    zval =
     -4.7036
    zval =
     -4.4926
B)
```



C)

```
close all;
figure
subplot(1,2, 1);
ROC(["skin","npreg","age"],T)
subplot(1,2, 2);
ROC(["glu","npreg","bp","skin","age","bmi"],T)
% all is better as the area is higer
```

```
0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1
```

```
function [AUC,fpr,tpr,threshholds] = ROC(var,t)
    p=[];
    names = var;
    if ismember("npreg", var)
        p = t.npreg;
    end
    if ismember("bmi",var)
        p = [p, t.bmi];
    end
    if ismember("age",var)
        p = [p, t.age];
    end
    if ismember("glu",var)
        p = [p, t.glu];
    end
    if ismember("bp",var)
        p = [p, t.bp];
    end
    if ismember("skin", var)
        p = [p, t.skin];
    end
    v = p;
```

```
a = zeros(length(v),1);
    i = 1;
    while i <= length(v)</pre>
          row = v(i,:);
        prob = dp(row,names,t);
        a(i) = prob;
        i = i+1;
    end
    r = t.binaryDiabetic;
    [fpr,tpr,thresholds,AUC, opt] = perfcurve(r, a, 1);
    plotHelp(fpr,tpr);
end
function plotHelp(fpr, tpr)
    plot(fpr,tpr, 'LineWidth',6);
    grid()
    xlabel("FPR")
    ylabel("TPR")
    title("ROC Curves")
    set(gca, 'FontSize', 20)
end
function y = dp(values, varName, t)
    p = [];
    if ismember("bp", varName)
        p = [p, t.bp];
    end
    if ismember("age", varName)
        p = [p, t.age];
     if ismember("npreg", varName)
        p = t.npreg;
    if ismember("glu", varName)
        p = [p, t.glu];
    end
```

```
if ismember("skin", varName)
        p = [p, t.skin];
    if ismember("bmi", varName)
        p = [p, t.bmi];
    end
    r = glmfit(p,t.binaryDiabetic,'binomial');
    be = r_i
    zval = be(1);
    i = 2;
    while i <= length(be)</pre>
          bW = be(i);
        x = values(i-1);
        currentnum = x * bW;
        zval = zval + currentnum
    i = i+1;
    end
    y = 1 ./ (1 + exp(-zval));
end
function T = changeToNaN(T)
for i = 1:6
        values = T(:,i);
        missing = ismissing(values,'NA');
        values = table2array(values);
        values(missing) = {NaN};
        T(:,i) = values;
end
T.npreg = str2double(T.npreg);
T.skin = str2double(T.skin);
        T.bmi = str2double(T.bmi);
        T.age = str2double(T.age);
        T.glu = str2double(T.glu);
        T.bp = str2double(T.bp);
```

end

zval =

-5.2675

zval =

0.5932

zval =

-6.0462

zval =

-2.6802

zval =

-6.0462

zval =

-2.5218

zval =

-5.7347

zval =

-2.6460

zval =

-5.8904

zval =

1.9107

-5.4233

zval =

1.1503

zval =

-6.2019

zval =

-1.5292

zval =

-6.0462

zval =

-1.9674

zval =

-5.7347

zval =

-0.7452

zval =

-4.8003

zval =

-0.0880

zval =

-6.0462

-2.2050

zval =

-5.4233

zval =

-1.1069

zval =

-5.7347

zval =

-2.2500

zval =

-4.6446

zval =

0.1865

zval =

-5.5790

zval =

-1.5002

zval =

-4.8003

zval =

-0.7612

-5.8904

zval =

-2.3265

zval =

-5.5790

zval =

-1.1834

zval =

-5.7347

zval =

1.3932

zval =

-5.1118

zval =

-0.9143

zval =

-4.8003

zval =

1.9712

-6.2019

zval =

0.9260

zval =

-5.8904

zval =

-3.0789

zval =

-6.0462

zval =

-1.9674

zval =

-6.0462

zval =

-2.0466

zval =

-5.4233

zval =

-1.9385

zval =

-5.1118

0.8281

zval =

-6.0462

zval =

-3.1554

zval =

-6.2019

zval =

-2.0440

zval =

-5.4233

zval =

-1.5029

zval =

-6.2019

zval =

-1.8856

zval =

-6.0462

zval =

-2.2842

-5.5790

zval =

0.2025

zval =

-5.8904

zval =

-1.9305

zval =

-5.5790

zval =

NaN

zval =

-5.4233

zval =

-1.6613

zval =

-5.8904

zval =

-1.4553

zval =

-5.7347

-1.2600

zval =

-5.1118

zval =

-1.8250

zval =

-6.2019

zval =

-2.2023

zval =

-4.1774

zval =

0.0201

zval =

-5.8904

zval =

-1.9305

zval =

-3.8660

zval =

1.5195

-5.5790

zval =

-0.7083

zval =

-5.1118

zval =

-1.9042

zval =

-5.8904

zval =

-2.2473

zval =

-5.2675

zval =

-1.5848

zval =

-6.0462

zval =

-1.2150

-6.0462

zval =

-2.8386

zval =

-6.0462

zval =

-1.0566

zval =

-5.5790

zval =

0.1233

zval =

-6.0462

zval =

-2.5218

zval =

-5.1118

zval =

1.2241

zval =

-5.5790

-1.7378

zval =

-6.2019

zval =

0.2132

zval =

-5.8904

zval =

-1.6533

zval =

-6.0462

zval =

-2.5614

zval =

-6.0462

zval =

-1.4130

zval =

-5.5790

zval =

1.2717

-5.7347

zval =

0.9972

zval =

-4.9561

zval =

-1.6297

zval =

-6.2019

zval =

NaN

zval =

-6.2019

zval =

-2.5191

zval =

-5.4233

zval =

-1.2257

zval =

-5.8904

-1.6137

zval =

-5.8904

zval =

-1.6929

zval =

-5.8904

zval =

-2.3265

zval =

-4.8003

zval =

1.3772

zval =

-6.0462

zval =

0.0125

zval =

-5.1118

zval =

0.9073

-5.8904

zval =

-2.4057

zval =

-3.5545

zval =

2.9002

zval =

-5.5790

zval =

0.4005

zval =

-5.1118

zval =

-1.0727

zval =

-6.2019

zval =

-1.6876

-5.2675

zval =

-1.1492

zval =

-5.8904

zval =

-2.9205

zval =

-4.9561

zval =

2.1322

zval =

-6.2019

zval =

-1.0936

zval =

-6.0462

zval =

-0.9774

zval =

-4.9561

-0.6397

zval =

-5.5790

zval =

-1.2626

zval =

-6.2019

zval =

-1.7272

zval =

-6.2019

zval =

-1.9252

zval =

-5.4233

zval =

-1.0277

zval =

-4.9561

zval =

2.8054

-5.8904

zval =

-2.6829

zval =

-6.2019

zval =

-0.3808

zval =

-5.4233

zval =

-1.1069

zval =

-5.2675

zval =

-0.3176

zval =

-5.4233

zval =

-2.0573

zval =

-5.1118

0.5113

zval =

-6.0462

zval =

-2.0862

zval =

-6.0462

zval =

-2.6010

zval =

-5.7347

zval =

0.6804

zval =

-5.5790

zval =

2.2221

zval =

-6.2019

zval =

-1.5688

-5.2675

zval =

0.0388

zval =

-5.7347

zval =

-2.8044

zval =

-5.1118

zval =

2.0557

zval =

-6.2019

zval =

0.8864

zval =

-6.0462

zval =

-2.4426

-5.5790

zval =

-1.9754

zval =

-5.2675

zval =

-0.5552

zval =

-5.8904

zval =

-0.1089

zval =

-4.8003

zval =

2.4860

zval =

-6.2019

zval =

0.3320

zval =

-4.8003

0.1100

zval =

-6.0462

zval =

-1.6506

zval =

-5.8904

zval =

-2.3265

zval =

-6.0462

zval =

-1.5714

zval =

-5.7347

zval =

-1.3392

zval =

-4.4889

zval =

1.6490

-5.5790

zval =

-1.8170

zval =

-5.4233

zval =

-1.6217

zval =

-5.8904

zval =

-0.8217

zval =

-4.6446

zval =

-0.6451

zval =

-5.8904

zval =

-1.6137

zval =

-5.8904

-1.9305

zval =

-5.1118

zval =

-0.9143

zval =

-6.2019

zval =

-2.0836

zval =

-5.8904

zval =

-1.6137

zval =

-5.1118

zval =

0.1549

zval =

-5.1118

zval =

NaN

-6.0462

zval =

-1.3338

zval =

-5.5790

zval =

-1.7774

zval =

-6.2019

zval =

-3.1131

zval =

-6.2019

zval =

-1.9648

zval =

-5.2675

zval =

0.7120

-5.8904

zval =

-0.1089

zval =

-6.2019

zval =

-1.2124

zval =

-5.8904

zval =

-0.1881

zval =

-5.8904

zval =

-1.1385

zval =

-4.6446

zval =

1.7309

zval =

-6.2019

-1.1332

zval =

-5.8904

zval =

-0.9801

zval =

-5.8904

zval =

0.2475

zval =

-5.7347

zval =

-1.2600

zval =

-5.1118

zval =

-0.7955

zval =

-5.7347

zval =

-1.1808

-4.1774

zval =

1.8417

zval =

-5.8904

zval =

-1.4553

zval =

-6.0462

zval =

0.1709

zval =

-6.0462

zval =

-1.2150

zval =

-5.8904

zval =

-1.8513

zval =

-5.2675

-1.1096

zval =

-4.9561

zval =

-0.2833

zval =

-5.8904

zval =

-2.4453

zval =

-6.0462

zval =

-2.2842

zval =

-6.0462

zval =

-0.8982

zval =

-6.0462

zval =

-2.2842

-4.9561

zval =

0.0335

zval =

-6.0462

zval =

-0.5418

zval =

-5.7347

zval =

-1.8144

zval =

-6.0462

zval =

-1.0962

zval =

-6.0462

zval =

1.7153

-5.4233

zval =

2.0610

zval =

-5.4233

zval =

-1.3445

zval =

-5.5790

zval =

0.2421

zval =

-5.4233

zval =

-1.5029

zval =

-5.7347

zval =

-2.5272

zval =

-5.7347

1.1160

zval =

-6.2019

zval =

-2.8755

zval =

-6.2019

zval =

-2.3211

zval =

-6.0462

zval =

-2.6010

zval =

-6.2019

zval =

-2.5191

zval =

-6.2019

zval =

-2.0440

-6.0462

zval =

-2.4822

zval =

-6.0462

zval =

-1.0962

zval =

-6.0462

zval =

-1.3338

zval =

-5.4233

zval =

-0.8297

zval =

-4.9561

zval =

-0.7981

zval =

-5.7347

-1.7748

zval =

-6.0462

zval =

-0.8586

zval =

-5.8904

zval =

-0.8613

zval =

-5.7347

zval =

-1.9332

zval =

-5.7347

zval =

1.9080

zval =

-5.4233

zval =

NaN

-4.8003

zval =

-1.9492

zval =

-6.0462

zval =

0.7649

zval =

-5.2675

zval =

-1.2284

zval =

-6.0462

zval =

-1.6110

zval =

-6.0462

zval =

-0.3834

-5.7347

zval =

1.1160

zval =

-5.5790

zval =

0.1233

zval =

-5.7347

zval =

-0.6264

zval =

-6.0462

zval =

-1.3338

zval =

-5.8904

zval =

-2.1681

zval =

-6.2019

-2.1628

zval =

-4.9561

zval =

1.0234

zval =

-6.0462

zval =

1.1213

zval =

-6.0462

zval =

-2.2842

zval =

-5.7347

zval =

-2.2104

zval =

-6.0462

zval =

-2.8782

-6.0462

zval =

-2.4822

zval =

-6.2019

zval =

1.2824

zval =

-5.5790

zval =

-0.9458

zval =

-6.2019

zval =

0.9260

zval =

-6.2019

zval =

-2.0836

zval =

-6.2019

-1.4500

zval =

-6.0462

zval =

-2.7990

zval =

-6.2019

zval =

-2.5983

zval =

-4.8003

zval =

0.5060

zval =

-4.8003

zval =

-0.0484

zval =

-4.9561

zval =

-2.0257

-5.4233

zval =

-1.9385

zval =

-6.2019

zval =

-1.2916

zval =

-6.2019

zval =

-2.3607

zval =

-6.0462

zval =

-0.3438

zval =

-6.2019

zval =

-0.7768

-5.5790

zval =

-0.3519

zval =

-5.7347

zval =

0.5220

zval =

-6.2019

zval =

-1.3312

zval =

-6.2019

zval =

-2.8755

zval =

-6.2019

zval =

-0.8560

zval =

-6.0462

-0.5418

zval =

-6.2019

zval =

0.6488

zval =

-5.8904

zval =

-2.6037

zval =

-5.8904

zval =

-2.3661

zval =

-5.5790

zval =

-1.6586

zval =

-5.5790

zval =

-0.6291

-5.8904

zval =

-2.6829

zval =

-5.2675

zval =

0.8308

zval =

-5.8904

zval =

NaN

zval =

-5.7347

zval =

-2.4084

zval =

-5.1118

zval =

-1.3895

zval =

-5.7347

-1.9332

zval =

-4.3332

zval =

-1.0068

zval =

-5.7347

zval =

-1.8144

zval =

-5.7347

zval =

0.7200

zval =

-4.8003

zval =

0.9416

zval =

-5.2675

zval =

-0.1592

-5.8904

zval =

-3.1977

zval =

-5.7347

zval =

-2.2896

zval =

-5.8904

zval =

-1.0593

zval =

-6.0462

zval =

-2.9970

zval =

-6.2019

zval =

-1.1728

-5.7347

zval =

-0.6660

zval =

-4.6446

zval =

-1.0807

zval =

-5.5790

zval =

-2.2526

zval =

-6.0462

zval =

-2.5614

zval =

-4.9561

zval =

2.4094

zval =

-5.4233

1.9818

zval =

-5.5790

zval =

-0.3915

zval =

-6.0462

zval =

-1.4526

zval =

-5.7347

zval =

-2.4084

zval =

-6.0462

zval =

-2.5614

zval =

-6.0462

zval =

-2.7198

-4.4889

zval =

-0.4101

zval =

-5.2675

zval =

-1.3472

zval =

-6.0462

zval =

-2.1258

zval =

-5.7347

zval =

-1.3392

zval =

-5.8904

zval =

-2.0097

zval =

-6.0462

-0.3834

zval =

-6.0462

zval =

-1.3338

zval =

-5.2675

zval =

-0.9908

zval =

-5.7347

zval =

1.2348

zval =

-4.4889

zval =

-0.0934

zval =

-5.8904

zval =

-1.4553

-5.8904

zval =

-2.6433

zval =

-5.2675

zval =

-0.3968

zval =

-6.0462

zval =

-2.5218

zval =

-6.0462

zval =

-1.7694

zval =

-6.0462

zval =

-1.1358

-6.0462

zval =

1.1213

zval =

-6.0462

zval =

-2.4030

zval =

-6.2019

zval =

-0.1828

zval =

-5.7347

zval =

1.1556

zval =

-5.2675

zval =

-1.1096

zval =

-4.4889

0.9758

zval =

-5.8904

zval =

-3.1977

zval =

-4.8003

zval =

-0.3652

zval =

-6.2019

zval =

-2.4795

zval =

-5.5790

zval =

-2.0150

zval =

-5.5790

zval =

-1.8566

-6.2019

zval =

-2.1628

zval =

-6.0462

zval =

-0.9774

zval =

-5.1118

zval =

-1.2707

zval =

-6.0462

zval =

-2.0862

zval =

-5.7347

zval =

-1.6560

zval =

-6.2019

0.8864

zval =

-4.4889

zval =

0.8966

zval =

-6.0462

zval =

-1.4130

zval =

-5.8904

zval =

0.2475

zval =

-5.8904

zval =

-1.8909

zval =

-6.0462

zval =

-1.6110

-5.5790

zval =

0.1629

zval =

-4.6446

zval =

-0.2491

zval =

-5.2675

zval =

-1.3868

zval =

-5.2675

zval =

1.2664

zval =

-4.6446

zval =

-1.9519

-5.7347

zval =

-0.8640

zval =

-6.2019

zval =

0.2132

zval =

-6.2019

zval =

-2.4399

zval =

-5.8904

zval =

-0.7821

zval =

-6.0462

zval =

-1.8090

zval =

-5.1118

0.5113

zval =

-5.7347

zval =

0.9576

zval =

-5.2675

zval =

-2.0996

zval =

-5.8904

zval =

-0.8613

zval =

-5.8904

zval =

-2.2077

zval =

-5.4233

zval =

-0.4337

-4.6446

zval =

0.4637

zval =

-6.2019

zval =

-0.8956

zval =

-5.1118

zval =

2.2933

zval =

-5.7347

zval =

1.1160

zval =

-4.6446

zval =

-0.9223

zval =

-6.0462

-1.7694

zval =

-5.4233

zval =

-0.7901

zval =

-6.0462

zval =

-1.4526

zval =

-6.2019

zval =

-0.6184

zval =

-5.8904

zval =

0.9999

zval =

-5.8904

zval =

-1.6929

-6.2019

zval =

-1.2124

zval =

-4.9561

zval =

-2.3821

zval =

-5.8904

zval =

-1.9701

zval =

-4.4889

zval =

0.2630

zval =

-5.7347

zval =

-1.6956

-6.0462

zval =

-1.7298

zval =

-4.1774

zval =

1.8813

zval =

-4.3332

zval =

-0.3732

zval =

-6.0462

zval =

-0.2250

zval =

-5.7347

zval =

1.6704

zval =

-6.0462

-1.2546

zval =

-5.7347

zval =

-1.4580

zval =

-6.2019

zval =

0.9656

zval =

-6.0462

zval =

-0.9774

zval =

-5.8904

zval =

-2.4057

zval =

-4.8003

zval =

1.9316

-4.6446

zval =

-0.6451

zval =

-5.4233

zval =

-0.6317

zval =

-6.0462

zval =

-2.3634

zval =

-5.4233

zval =

-2.0177

zval =

-5.1118

zval =

2.6101

zval =

-5.4233

-2.3741

zval =

-6.2019

zval =

0.3320

zval =

-6.2019

zval =

-1.9648

zval =

-5.4233

zval =

-1.5821

zval =

-5.7347

zval =

-2.4480

zval =

-6.0462

zval =

1.5965

-5.7347

zval =

-0.1116

zval =

-5.8904

zval =

-0.8217

zval =

-6.2019

zval =

-0.7768

zval =

-4.8003

zval =

1.2980

zval =

-6.0462

zval =

1.4381

-4.3332

zval =

-0.6900

zval =

-6.0462

zval =

-2.6406

zval =

-5.5790

zval =

-1.6586

zval =

-6.0462

zval =

-1.7298

zval =

-4.4889

zval =

1.1738

zval =

-6.0462

-0.1458

zval =

-6.2019

zval =

-0.6976

zval =

-5.8904

zval =

-1.9701

zval =

-6.0462

zval =

-2.0862

zval =

-5.5790

zval =

-2.2922

zval =

-6.2019

zval =

-2.2023

-6.0462

zval =

-2.6010

zval =

-4.8003

zval =

1.6940

zval =

-6.0462

zval =

-2.1258

zval =

-6.2019

zval =

-0.6580

zval =

-5.4233

zval =

-1.1465

zval =

-5.8904

-1.5345

zval =

NaN

zval =

NaN

zval =

-5.7347

zval =

0.1260

zval =

-6.2019

zval =

-1.4104

zval =

-5.7347

zval =

NaN

zval =

-5.8904

zval =

-1.7325

-4.1774

zval =

1.5645

zval =

-6.0462

zval =

-2.9178

zval =

-6.0462

zval =

-3.2346

zval =

-6.2019

zval =

-2.1628

zval =

-6.2019

zval =

-1.4896

-4.9561

zval =

2.0134

zval =

-6.0462

zval =

-2.2050

zval =

-5.5790

zval =

-0.4707

zval =

-6.0462

zval =

-2.2050

zval =

-6.2019

zval =

-2.7963

zval =

-5.8904

-0.9405

zval =

-5.4233

zval =

-0.5525

zval =

-5.8904

zval =

-2.2473

zval =

-5.7347

zval =

1.0368

zval =

-6.0462

zval =

1.8341

zval =

-5.7347

zval =

-1.1412

-5.8904

zval =

-2.6037

zval =

-4.9561

zval =

1.1422

zval =

-6.0462

zval =

-1.5318

zval =

-6.0462

zval =

-1.8486

zval =

-5.5790

zval =

-0.5499

zval =

-6.0462

-1.1358

zval =

-6.0462

zval =

-1.7298

zval =

-5.8904

zval =

-1.0197

zval =

-4.9561

zval =

1.6570

zval =

-5.1118

zval =

2.1745

zval =

-6.0462

zval =

-2.2446

-4.6446

zval =

0.4637

zval =

-5.2675

zval =

-1.6244

zval =

-5.2675

zval =

-0.9512

zval =

-5.4233

zval =

0.0811

zval =

-5.2675

zval =

0.0388

-5.7347

zval =

-1.5372

zval =

-6.2019

zval =

-1.0144

zval =

-6.2019

zval =

-0.8560

zval =

-5.4233

zval =

0.8335

zval =

-5.7347

zval =

-1.2996

zval =

-4.9561

2.2114

zval =

-5.8904

zval =

-1.0989

zval =

-6.0462

zval =

0.6065

zval =

-6.0462

zval =

-0.3438

zval =

-5.8904

zval =

-1.8909

zval =

-5.8904

zval =

-2.0889

-5.7347

zval =

-1.4976

zval =

-4.3332

zval =

NaN

zval =

-5.8904

zval =

-1.9305

zval =

-5.5790

zval =

0.5193

zval =

-5.2675

zval =

-0.3176

zval =

-4.6446

0.3053

zval =

-5.8904

zval =

-1.0593

zval =

-5.8904

zval =

-1.3761

zval =

-6.0462

zval =

-1.4922

zval =

-5.1118

zval =

-0.5975

zval =

NaN

zval =

NaN

-6.0462

zval =

-0.8982

zval =

-6.0462

zval =

-2.9178

zval =

-5.5790

zval =

NaN

zval =

-5.1118

zval =

0.8281

zval =

-6.0462

zval =

-2.4426

-6.0462

zval =

-2.0862

zval =

-4.3332

zval =

1.2108

zval =

-5.5790

zval =

-1.2230

zval =

-5.8904

zval =

-2.1681

zval =

-5.8904

zval =

-2.5641

zval =

-4.6446

1.2161

zval =

-5.7347

zval =

-3.3191

zval =

-5.5790

zval =

-0.9458

zval =

-5.7347

zval =

-1.8144

zval =

-5.7347

zval =

-2.5668

zval =

-5.5790

zval =

0.5193

-5.2675

zval =

-1.1888

zval =

-5.2675

zval =

-0.8720

zval =

-6.2019

zval =

-1.2916

zval =

-6.0462

zval =

-0.3834

zval =

-6.0462

zval =

-2.8386

zval =

-5.5790

1.9053

zval =

-5.5790

zval =

NaN

zval =

-5.1118

zval =

-1.0331

zval =

-4.9561

zval =

-0.0457

zval =

-6.0462

zval =

-3.2346

zval =

-6.2019

zval =

-0.7768

-4.8003

zval =

-0.3652

zval =

-5.5790

zval =

0.2817

zval =

-6.0462

zval =

-0.6606

zval =

-4.8003

zval =

0.9416

zval =

-6.0462

zval =

-2.3634

-6.0462

zval =

-1.8090

zval =

-4.3332

zval =

1.6464

zval =

-6.0462

zval =

-2.2050

zval =

-5.4233

zval =

0.2791

zval =

-5.8904

zval =

-1.4553

zval =

-5.8904

-1.9701

zval =

-6.0462

zval =

-1.7298

zval =

-6.0462

zval =

-1.2942

zval =

-5.1118

zval =

2.2933

zval =

-5.7347

zval =

-0.6264

zval =

-5.1118

zval =

1.9765

-5.2675

zval =

-2.0996

zval =

-5.8904

zval =

-1.7325

zval =

-5.7347

zval =

1.8288

zval =

-6.2019

zval =

-2.4399

zval =

-5.5790

zval =

-1.6586

zval =

-6.2019

-0.7768

zval =

-6.0462

zval =

-2.2050

zval =

-6.2019

zval =

-2.2419

zval =

-6.0462

zval =

0.5669

zval =

-6.2019

zval =

0.9260

zval =

-5.8904

zval =

-1.0593

-6.0462

zval =

-2.4822

zval =

-5.7347

zval =

-0.9828

zval =

-5.2675

zval =

0.8308

zval =

-5.8904

zval =

-3.6729

zval =

-6.2019

zval =

0.8072

NaN

zval =

NaN

zval =

-4.9561

zval =

-1.5901

zval =

-4.3332

zval =

-0.8484

zval =

-4.8003

zval =

1.2188

zval =

-6.2019

zval =

1.6388

zval =

-6.2019

1.2428

zval =

-5.4233

zval =

0.0811

zval =

-5.1118

zval =

1.5409

zval =

-5.8904

zval =

1.9107

zval =

-5.8904

zval =

-0.2673

zval =

-4.9561

zval =

0.0335

-5.7347

zval =

0.5220

zval =

-5.7347

zval =

-0.5868

zval =

-5.8904

zval =

-1.9305

zval =

-6.0462

zval =

0.4481

zval =

-5.5790

zval =

-1.8170

zval =

-5.8904

-1.0593

zval =

-5.5790

zval =

-2.2130

zval =

-6.2019

zval =

-0.2224

zval =

-5.2675

zval =

0.4348

zval =

-5.7347

zval =

-1.3392

zval =

-6.0462

zval =

-1.8090

-5.2675

zval =

-0.7136

zval =

-5.4233

zval =

-1.2653

zval =

-5.1118

zval =

2.5705

zval =

-5.5790

zval =

1.7073

zval =

-6.2019

zval =

-2.4399

-5.1118

zval =

-0.2015

zval =

-6.0462

zval =

-1.6506

zval =

-5.1118

zval =

0.3133

zval =

-4.8003

zval =

-2.5432

zval =

-5.8904

zval =

0.3267

zval =

-5.8904

-2.1285

zval =

-4.3332

zval =

1.2108

zval =

-6.2019

zval =

-1.5688

zval =

-4.9561

zval =

-0.9961

zval =

-4.8003

zval =

0.0704

zval =

-6.2019

zval =

-0.7372

-4.0217

zval =

-0.0618

zval =

-4.0217

zval =

2.9082

zval =

-6.2019

zval =

-3.2715

zval =

-6.0462

zval =

-0.7794

zval =

-6.2019

zval =

-1.4896

zval =

-5.4233

0.7147

zval =

-6.0462

zval =

-0.9774

zval =

-5.8904

zval =

-1.4553

zval =

-6.0462

zval =

-0.5022

zval =

-5.8904

zval =

-0.3069

zval =

-5.1118

zval =

-0.0035

-6.2019

zval =

-2.0044

zval =

-6.0462

zval =

-1.3734

zval =

-4.9561

zval =

1.1818

Published with MATLAB® R2019b