```
>> ee511 p2 q3ab(10)
Summary for Discrete uniform distribution 0,1,2,...9 for
  -Number of samples -50 with 5 bins
h =
     0
p =
    0.8442
st =
    chi2stat: 1.4000
          df: 4
       edges: [0 1.8000 3.6000 5.4000 7.2000 9]
           0: [10 8 9 13 10]
           E: [10 10 10 10 10]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is NO$\mathbb{E}$
REJECTED
  -Number of samples -50 with 8 bins
h =
     0
p =
    0.3397
st =
    chi2stat: 7.9200
          df: 7
       edges: [0 1.1250 2.2500 3.3750 4.5000 5.6250 6.7500 7.8750 9]
           O: [10 4 4 3 6 6 7 10]
           E: [6.2500 6.2500 6.2500 6.2500 6.2500 6.2500 6.2500 6.2500]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is NO
REJECTED
  -Number of samples -50 with 11 bins
h =
```

0 p = 0.6237 st = chi2stat: 0.2407 df: 1 edges: [0 4.0909 9] 0: [21 29] E: [22.7273 27.2727] -The NULL hypothesis that "uniform dist random data fits the sample above" is NOf qREJECTED Summary for Discrete uniform distribution  $0,1,2,\ldots 9$  for -Number of samples -100 with 5 bins h =0 p = 0.0749 st = chi2stat: 8.5000 edges: [0 1.8000 3.6000 5.4000 7.2000 9] O: [12 28 24 21 15] E: [20 20 20 20 20] -The NULL hypothesis that "uniform dist random data fits the sample above" is NO\$\mathbb{F}\$ -Number of samples -100 with 8 bins h =0

```
p =
    0.5120
st =
    chi2stat: 6.2400
          df: 7
       edges: [0 1.1250 2.2500 3.3750 4.5000 5.6250 6.7500 7.8750 9]
           O: [12 10 18 11 13 7 14 15]
           E: [12.5000 12.5000 12.5000 12.5000 12.5000 12.5000 12.5000 12.5000]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is NO
REJECTED
  -Number of samples -100 with 11 bins
h =
     1
p =
    0.0014
st =
    chi2stat: 28.7000
       edges: [0 0.8182 1.6364 2.4545 3.2727 4.0909 4.9091 5.7273 6.5455 7.363&
8.1818 9]
           O: [5 7 10 18 11 0 13 7 14 11 4]
           E: [9.0909 9.0909 9.0909 9.0909 9.0909 9.0909 9.0909 9.0909 9.0909 9.090₽
9.09091
  -The NULL hypothesis that "uniform dist random data fits the sample above" is
REJECTED
Summary for Discrete uniform distribution 0,1,2,...9 for
  -Number of samples -500 with 5 bins
h =
     0
p =
```

0.6626 st =chi2stat: 2.4000 df: 4 edges: [0 1.8000 3.6000 5.4000 7.2000 9] O: [95 98 107 91 109] E: [100 100 100 100 100] -The NULL hypothesis that "uniform dist random data fits the sample above" is NO\$\mathbb{F}\$ REJECTED -Number of samples -500 with 8 bins h =1 p =1.0257e-12 st = chi2stat: 70.7840 df: 7 edges: [0 1.1250 2.2500 3.3750 4.5000 5.6250 6.7500 7.8750 9] O: [95 43 55 50 57 44 47 109] E: [62.5000 62.5000 62.5000 62.5000 62.5000 62.5000 62.5000] -The NULL hypothesis that "uniform dist random data fits the sample above" i ${\it s}$ REJECTED -Number of samples -500 with 11 bins h =1 p =2.0283e-08 st =

```
chi2stat: 56.0280
          df: 10
       edges: [0 0.8182 1.6364 2.4545 3.2727 4.0909 4.9091 5.7273 6.5455 7.3636
8.1818 9]
           O: [50 45 43 55 50 0 57 44 47 59 50]
           E: [45.4545 45.4545 45.4545 45.4545 45.4545 45.4545 45.4545 45.4545 45.454$
45.4545 45.4545 45.4545]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is
REJECTED
Summary for Discrete uniform distribution 0,1,2,...9 for
  -Number of samples -1000 with 5 bins
h =
     0
p =
    0.4658
st =
    chi2stat: 3.5800
          df: 4
       edges: [0 1.8000 3.6000 5.4000 7.2000 9]
           O: [184 205 205 217 189]
           E: [200 200 200 200 200]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is NOf Z
REJECTED
  -Number of samples -1000 with 8 bins
h =
     1
p =
   1.0240e-16
st =
    chi2stat: 90.4000
          df: 7
```

```
edges: [0 1.1250 2.2500 3.3750 4.5000 5.6250 6.7500 7.8750 9]
           O: [184 87 118 120 85 114 103 189]
           E: [125 125 125 125 125 125 125 125]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is
REJECTED
  -Number of samples -1000 with 11 bins
h =
     1
p =
   7.0370e-21
st =
    chi2stat: 119.2940
          df: 10
       edges: [0 0.8182 1.6364 2.4545 3.2727 4.0909 4.9091 5.7273 6.5455 7.363&
8.1818 9]
           O: [81 103 87 118 120 0 85 114 103 95 94]
           E: [90.9091 90.9091 90.9091 90.9091 90.9091 90.9091 90.9091 90.9091 8
90.9091 90.9091 90.9091]
  -The NULL hypothesis that "uniform dist random data fits the sample above" is
REJECTED
>>
```