```
/***例8-1, 完全随机设计方差分析*********/
data a8 1;
 input group coll;
 cards;
  6.82
1
  5.73
  7.19
1
1
  7.93
  7.62
  7.77
1
  7.9
  7.89
1
2
 5.66
2
  4.82
2
  5.53
  4.98
  4.4
2
  4.18
2
  4.07
2
  4.11
3
  2.13
3
  2.71
3
  2.5
3
  2.67
3
  3.6
3
  3.36
3
  2.33
3 2.85
proc univariate normal;
 class group;
 var coll;
run;
proc glm data=a8 1;
 class group;
 model coll=group;
 output p=pred r=resi stdr=dtdr student=sturesi;
 means group/snk dunnett('1') hovtest=levene(type=abs);
run;
proc gplot;
 plot sturesi*group/haxis=0 to 4;
 plot sturesi*pred;
run;
/***例8-2, 方差分析*********/
data a8 2;
 input group si@@;
 cards;
1 66.51 2 52.04 3 75 4 98.69
1 37.1 2 61.71 3 52.7 4 85.62
```

```
52.27 2 64.58 3 99.43 4 77.57
1
   62.63 2
            64.17 3 97.69 4
1
                               82.23
   72.8
            57.13 3
                     89.35 4
                               96.16
1
   46.32 2
            51.79 3
                     72.06 4
                               105.51
1
   56.48 2
            47.72 3 110.5 4
                               103.42
1
   67.91 2
            50.92 3 83.87 4
                              98.22
   74.81 2
            33.93 3 77.07 4 83.72
1
   63.08 2
            51.31 3 74.86 4
                              104.54
1
   48.17 2
            53.16 3 105.71 4 80.56
1
   42.71 2
            40.68 3 84.55 4
1
                              105.67
   58.97 2
1
            43.94 3 84.4
                            4 107.56
1
   57.12 2
            56.48 3 98.41 4
                              104.93
   54.91 2
            68.75 3 76.44 4
1
                              76.15
1
   71.01 2
            61.05 3 80.35 4
                              79.32
            64.68 3
1
   43.92 2
                     112.94 4
                               84.06
   48.74 2
            50.54 3
                      84.33 4
1
                               83.12
   62.13 2
            67.79 3
                      77.92 4
1
                               62.23
   54.63 2 69.3 3 74.82 4 91.73
proc univariate normal;
 class group;
 var si;
run;
proc glm data=a8 2;
 class group;
 model si = group;
 means group/ Bon hovtest=bartlett;
run;
/****例8-3, 见例8-1**********/
/***例8-4, 随机区组方差分析********/
data a8 4;
 input group block cure@@;
 cards;
  1
      58.02 2 1 71.9 3
                            1 66.27
                  56.35 3
1
   2
      52.7
            2
                            2
                               60.59
      60.22 2
                  70.08 3
1
   3
               3
                            3
                               66.12
      44.49 2
                         3
1
   4
               4
                  56.6
                            4
                               55.36
                   68.25 3
   5
      59.31
            2
               5
1
                            5
                               53.39
      56.23 2
   6
                6
                  63.36 3
                            6
                               52.34
                   66.12 3
   7
      55.16 2
               7
                            7
1
                               55.16
      42.48 2
1
   8
               8
                  50.02 3
                            8
                               58.64
   9
      50.84 2
               9
                  66.97 3
                            9
                               44.01
1
   10 49.38 2
               10 67.05 3
                            10 52.49
1
   11 55.16 2
1
               11 69.89 3
                           11 59.99
1
  12 53.47 2
               12 61.08 3 12 61.08
proc univariate normal;
 class group;
 var cure;
run;
proc glm;
 class group block;
```

```
model cure = group block;
run;
/****例8-5, 见例8-1************/
```