

Name: Zhijian Liu

Course: STAT-625

### Homework#5

#### Exercise#1:

##### 1. Program

```
data Voter;  
  input Age Party : $1. (Quest1-Quest4)($1. +1);  
  label Quest1='The president is doing a good job'  
        Quest2='Congress is doing a good job'  
        Quest3='Taxes are too high'  
        Quest4='Government should cut spending';  
  datalines;  
  23 D 1 1 2 2  
  45 R 5 5 4 1  
  67 D 2 4 3 3  
  39 R 4 4 4 4  
  19 D 2 1 2 1  
  75 D 3 3 2 3  
  57 R 4 3 4 4  
  ;  
run;
```

##### Log

```
1  Data Voter;  
2  Input Age Party : $1. (Quest1-Quest4)($1. +1);  
3  label Quest1='The president is doing a good job'  
4          Quest2='Congress is doing a good job'  
5          Quest3='Taxes are too high'  
6          Quest4='Government should cut spending';  
7  Datalines;  
  
NOTE: The data set WORK.VOTER has 7 observations and 6 variables.  
NOTE: DATA statement used (Total process time):  
      real time           0.00 seconds  
      cpu time            0.01 seconds  
  
15  ;  
16  run;
```

##### 2. Program

```
proc print data = Voter;  
  run;  
proc freq data = Voter;  
  table (Quest1-Quest4);  
  run;
```

##### Log

```

53 proc print data = Voter;
54 run;

```

NOTE: There were 7 observations read from the data set WORK.VOTER.

NOTE: PROCEDURE PRINT used (Total process time):

```

    real time      0.05 seconds
    cpu time       0.01 seconds

```

```

55 proc freq data = Voter;
56     table (Quest1-Quest4);
57 run;

```

NOTE: There were 7 observations read from the data set WORK.VOTER.

NOTE: PROCEDURE FREQ used (Total process time):

```

    real time      0.05 seconds
    cpu time       0.04 seconds

```

Output

### The SAS System

Obs	Age	Party	Quest1	Quest2	Quest3	Quest4
1	23	D	1	1	2	2
2	45	R	5	5	4	1
3	67	D	2	4	3	3
4	39	R	4	4	4	4
5	19	D	2	1	2	1
6	75	D	3	3	2	3
7	57	R	4	3	4	4

## The SAS System

### The FREQ Procedure

The president is doing a good job				
Quest1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	1	14.29	1	14.29
2	2	28.57	3	42.86
3	1	14.29	4	57.14
4	2	28.57	6	85.71
5	1	14.29	7	100.00

Congress is doing a good job				
Quest2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	2	28.57	2	28.57
3	2	28.57	4	57.14
4	2	28.57	6	85.71
5	1	14.29	7	100.00

Taxes are too high				
Quest3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2	3	42.86	3	42.86
3	1	14.29	4	57.14
4	3	42.86	7	100.00

Government should cut spending				
Quest4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	2	28.57	2	28.57
2	1	14.29	3	42.86
3	2	28.57	5	71.43
4	2	28.57	7	100.00

3. Program

```
proc format;
    value Age 0-25 = '0-25'
              26-50 = '26-50'
              51-75 = '51-75'
              76 - high = '>75';
    value $Quest '1' = 'Strongly Disagree'
                 '2' = 'Disagree'
                 '3' = 'No opinion'
                 '4' = 'Agree'
                 '5' = 'Strongly Agree';

run;

Data Voter;
    Input Age Party : $1. (Quest1-Quest4) ($1. +1);
    label Quest1='The president is doing a good job'
           Quest2='Congress is doing a good job'
           Quest3='Taxes are too high'
           Quest4='Government should cut spending';
    Format Age Age.
           Quest1-Quest4 $Quest.;
    Datalines;
    23 D 1 1 2 2
    45 R 5 5 4 1
    67 D 2 4 3 3
    39 R 4 4 4 4
    19 D 2 1 2 1
    75 D 3 3 2 3
    57 R 4 3 4 4
    ;
run;
```

Log

```

1  proc format;
2      value Age 0-25 = '0-25'
3                26-50 = '26-50'
4                51-75 = '51-75'
5                76 - high = '>75';
NOTE: Format AGE has been output.
6      value $Quest '1' = 'Strongly Disagree'
7                  '2' = 'Disagree'
8                  '3' = 'No opinion'
9                  '4' = 'Agree'
10                 '5' = 'Strongly Agree';
NOTE: Format $QUEST has been output.
11  run;

NOTE: PROCEDURE FORMAT used (Total process time):
      real time          0.05 seconds
      cpu time           0.01 seconds

12  Data Voter;
13  Input Age Party : $1. (Quest1-Quest4)($1. +1);
14  label Quest1='The president is doing a good job'
15         Quest2='Congress is doing a good job'
16         Quest3='Taxes are too high'
17         Quest4='Government should cut spending';
18  Format Age Age.
19         Quest1-Quest4 $Quest.;
20  Datalines;

NOTE: The data set WORK.VOTER has 7 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds

28  ;
29  run;

```

#### 4. Program

```

proc format;
    value $Questb '1','2' = 'Generally Disagree'
                  '3' = 'No Option'
                  '4','5' = 'Generally Agree';

    title 'Frequencies for Questions 1 to 4';
proc freq data=Voter;
    table Quest1-Quest4;
    format Quest1-Quest4 $Questb.;
run;

```

Log

```

50 proc format;
51     value $Questb '1','2' = 'Generally Disagree'
52                 '3' = 'No Option'
53                 '4','5' = 'Generally Agree';

```

NOTE: Format \$QUESTB is already on the library WORK.FORMATS.

NOTE: Format \$QUESTB has been output.

```

54
55 title 'Frequencies for Questions 1 to 4';

```

NOTE: PROCEDURE FORMAT used (Total process time):

```

    real time      0.00 seconds
    cpu time       0.00 seconds

```

```

56 proc freq data=Voter;
57     table Quest1-Quest4;
58     format Quest1-Quest4 $Questb.;
59 run;

```

NOTE: Writing HTML Body file: sashtml.htm

NOTE: There were 7 observations read from the data set WORK.VOTER.

NOTE: PROCEDURE FREQ used (Total process time):

```

    real time      0.31 seconds
    cpu time       0.15 seconds

```

Output

## Frequencies for Questions 1 to 4

### The FREQ Procedure

The president is doing a good job				
Quest1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	3	42.86	3	42.86
No Option	1	14.29	4	57.14
Generally Agree	3	42.86	7	100.00

Congress is doing a good job				
Quest2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	2	28.57	2	28.57
No Option	2	28.57	4	57.14
Generally Agree	3	42.86	7	100.00

Taxes are too high				
Quest3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	3	42.86	3	42.86
No Option	1	14.29	4	57.14
Generally Agree	3	42.86	7	100.00

Government should cut spending				
Quest4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	3	42.86	3	42.86
No Option	2	28.57	5	71.43
Generally Agree	2	28.57	7	100.00

5. Program

```
libname folder 'C:\Users\zl1409a\Desktop';
data folder.Voter;
    Input Age Party : $1. (Quest1-Quest4)($1. +1);
    Datalines;
23 D 1 1 2 2
45 R 5 5 4 1
67 D 2 4 3 3
39 R 4 4 4 4
19 D 2 1 2 1
75 D 3 3 2 3
57 R 4 3 4 4
;
run;
```

Log

```
60 libname folder 'C:\Users\zl1409a\Desktop';
NOTE: Libref FOLDER was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Users\zl1409a\Desktop
61 data folder.Voter;
62     Input Age Party : $1. (Quest1-Quest4)($1. +1);
63 Datalines;

NOTE: The data set FOLDER.VOTER has 7 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time          0.00 seconds
      cpu time           0.00 seconds

71 ;
72 run;
```

6. Program

```
libname folder 'C:\Users\z11409a\Desktop';
option fmtsearch =(folder);
proc format library = folder;
    value Age 0-25 = '0-25'
              26-50 = '26-50'
              51-75 = '51-75'
              76 - high = '>75';
    value $Quest '1' = 'Strongly Disagree'
                '2' = 'Disagree'
                '3' = 'No opinion'
                '4' = 'Agree'
                '5' = 'Strongly Agree';

run;
data folder.Voter;
    set folder.Voter;
    label Quest1 = 'The president is doing a good job'
          Quest2 = 'Congress is doing a good job'
          Quest3= 'Taxes are too high'
          Quest4= 'Government should cut spending';
    format Age Age.
           Quest1-Quest4 $Quest.;

run;
proc format library=folder fmtlib;
run;
```

Log



```

1  libname folder 'C:\Users\zl1409a\Desktop';
NOTE: Libref FOLDER was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Users\zl1409a\Desktop
2  option fmtsearch =(folder);
3  proc format library = folder;
4      value Age 0-25 = '0-25'
5              26-50 = '26-50'
6              51-75 = '51-75'
7              76 - high = '>75';
NOTE: Format AGE is already on the library FOLDER.FORMATS.
NOTE: Format AGE has been written to FOLDER.FORMATS.
8      value $Quest '1' = 'Strongly Disagree'
9                  '2' = 'Disagree'
10                 '3' = 'No opinion'
11                 '4' = 'Agree'
12                 '5' = 'Strongly Agree';
NOTE: Format $QUEST is already on the library FOLDER.FORMATS.
NOTE: Format $QUEST has been written to FOLDER.FORMATS.
13  run;

NOTE: PROCEDURE FORMAT used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds

14  data folder.Voter;
15      set folder.Voter;
16      label Quest1 = 'The president is doing a good job'
17             Quest2 = 'Congress is doing a good job'
18             Quest3= 'Taxes are too high'
19             Quest4= 'Government should cut spending';
20      format Age Age.
21             Quest1-Quest4 $Quest.;
22  run;

NOTE: There were 7 observations read from the data set FOLDER.VOTER.
NOTE: The data set FOLDER.VOTER has 7 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds

23  proc format library=folder fmtlib;
24  run;

```

Output

## The SAS System

FORMAT NAME: AGE      LENGTH:    5    NUMBER OF VALUES:    4 MIN LENGTH:    1    MAX LENGTH:    40    DEFAULT LENGTH:    5    FUZZ: STD		
START	END	LABEL (VER. V7 V8 29SEP2018:16:48:11)
0	25	0-25
26	50	26-50
51	75	51-75
76 HIGH		>75

FORMAT NAME: \$QUEST    LENGTH:    17    NUMBER OF VALUES:    5 MIN LENGTH:    1    MAX LENGTH:    40    DEFAULT LENGTH:    17    FUZZ:    0		
START	END	LABEL (VER. V7 V8 29SEP2018:16:48:11)
1	1	Strongly Disagree
2	2	Disagree
3	3	No opinion
4	4	Agree
5	5	Strongly Agree

### Exercise#2

#### 1. Program

```

data RESULTS;
  input E1 E2 E3 CS $7.+1 ID $1.;
  datalines;
    0.844 0.76 0.913 Stat101 1
    0.889 0.73 0.93 Stat101 2
    0.90 0.77 0.84 Stat101 3
    0.74 0.69 0.61 Stat101 4
    0.94 0.76 0.31 Stat101 5
    0.87 0.73 0.85 Stat101 6
    0.26 0.74 0.90 Stat101 7
  ;
run;

```

Log

```

1  data RESULTS;
2      Input E1 E2 E3 CS $7.+1 ID $1.;
3      Datalines;

```

NOTE: The data set WORK.RESULTS has 7 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```

      real time          0.01 seconds
      cpu time           0.01 seconds

```

```

11  ;
12  run;

```

## 2. Program

```

      title 'The Data Porportion of RESULTS';
≡proc print data = RESULTS;
      run;
      title 'The Descriptor Porportion of RESULTS';
≡proc contents data = RESULTS varnum;
      run;

```

Log

```

13  title 'The Data Porportion of RESULTS';
14  proc print data = RESULTS;
NOTE: Writing HTML Body file: sashtml.htm
15  run;

```

NOTE: There were 7 observations read from the data set WORK.RESULTS.

NOTE: PROCEDURE PRINT used (Total process time):

```

      real time          0.23 seconds
      cpu time           0.12 seconds

```

```

16  title 'The Descriptor Porportion of RESULTS';
17  proc contents data = RESULTS varnum;
18  run;

```

NOTE: PROCEDURE CONTENTS used (Total process time):

```

      real time          0.09 seconds
      cpu time           0.01 seconds

```

Output

## The Data Porportion of RESULTS

Obs	E1	E2	E3	CS	ID
1	0.844	0.76	0.913	Stat101	1
2	0.889	0.73	0.930	Stat101	2
3	0.900	0.77	0.840	Stat101	3
4	0.740	0.69	0.610	Stat101	4
5	0.940	0.76	0.310	Stat101	5
6	0.870	0.73	0.850	Stat101	6
7	0.260	0.74	0.900	Stat101	7

## The Descriptor Porportion of RESULTS

### The CONTENTS Procedure

Data Set Name	WORK.RESULTS	Observations	7
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	09/29/2018 17:02:48	Observation Length	32
Last Modified	09/29/2018 17:02:48	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_64		
Encoding	wlatin1 Western (Windows)		

This table describe the information of the data sets. The name of the data set is "WORK.RESULTS". The number of observations is 7, and there are 5 variables. The length of observation is 32.

Engine/Host Dependent Information	
Data Set Page Size	65536
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	2039
Obs in First Data Page	7
Number of Data Set Repairs	0
ExtendObsCounter	YES
Filename	C:\Users\zl1409a\AppData\Local\Temp\SAS Temporary Files\_TD4624_B13-15\_results.sas7bdat
Release Created	9.0401M0
Host Created	X64_7PRO

This table provides more detail of the data. Its path is "C:\Users\zl1409a\AppData\Local\Temp\SAS Temporary Files\\_TD4624\_B13-15\\_results.sas7bdat", and data set page size is 65536.

Variables in Creation Order			
#	Variable	Type	Len
1	E1	Num	8
2	E2	Num	8
3	E3	Num	8
4	CS	Char	7
5	ID	Char	1

This table describes the variables by showing variable names, their types and their length.

### 3. Program

```
data RESULTS;
    input E1 E2 E3 CS $7.+1 ID $1.;
    label E1 = 'Exam 1 grade'
          E2 = 'Exam 2grade'
          E3 = 'Exam 3grade'
          CS = 'Lass Section'
          ID = 'Student ID';
    Datalines;
    0.844 0.76 0.913 Stat101 1
    0.889 0.73 0.93 Stat101 2
    0.90 0.77 0.84 Stat101 3
    0.74 0.69 0.61 Stat101 4
    0.94 0.76 0.31 Stat101 5
    0.87 0.73 0.85 Stat101 6
    0.26 0.74 0.90 Stat101 7
    ;
run;
```

Log

```
19 data RESULTS;
20     Input E1 E2 E3 CS $7.+1 ID $1.;
21     label E1 ='Exam 1 grade'
22           E2 ='Exam 2grade'
23           E3 ='Exam 3grade'
24           CS ='Lass Section'
25           ID ='Student ID';
26     Datalines;
```

NOTE: The data set WORK.RESULTS has 7 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.01 seconds
cpu time       0.01 seconds
```

#### 4. Program

```
data RESULTS;
    Input E1 E2 E3 CS $7.+1 ID $1.;
    label E1 ='Exam 1 grade'
          E2 ='Exam 2grade'
          E3 ='Exam 3grade'
          CS ='Lass Section'
          ID ='Student ID';
    Format E1-E3 percent5.;
    Datalines;
    0.844 0.76 0.913 Stat101 1
    0.889 0.73 0.93 Stat101 2
    0.90 0.77 0.84 Stat101 3
    0.74 0.69 0.61 Stat101 4
    0.94 0.76 0.31 Stat101 5
    0.87 0.73 0.85 Stat101 6
    0.26 0.74 0.90 Stat101 7
    ;
run;
```

Log

```
1 data RESULTS;
2     Input E1 E2 E3 CS $7.+1 ID $1.;
3     label E1 ='Exam 1 grade'
4           E2 ='Exam 2grade'
5           E3 ='Exam 3grade'
6           CS ='Lass Section'
7           ID ='Student ID';
8     Format E1-E3 percent5.;
9     Datalines;
```

NOTE: The data set WORK.RESULTS has 7 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```
real time      0.00 seconds
cpu time       0.00 seconds
```

```
17 ;
18 run;
```

#### 5. Program

```

proc format;
    value scale low-<0.5 = 'F'
              0.5-<0.6 = 'E'
              0.6-<0.7 = 'D'
              0.7-<0.8 = 'C'
              0.8-<0.9 = 'B'
              0.9-1 = 'A';
run;

data RESULTS;
    Input E1 E2 E3 CS $7.+1 ID $1.;
    label E1 ='Exam 1 grade'
          E2 ='Exam 2grade'
          E3 ='Exam 3grade'
          CS ='Lass Section'
          ID ='Student ID';
    Format E1-E3 scale.;
    Datalines;
    0.844 0.76 0.913 Stat101 1
    0.889 0.73 0.93 Stat101 2
    0.90 0.77 0.84 Stat101 3
    0.74 0.69 0.61 Stat101 4
    0.94 0.76 0.31 Stat101 5
    0.87 0.73 0.85 Stat101 6
    0.26 0.74 0.90 Stat101 7
    ;
run;

proc freq data=RESULTS;
    table E1-E3;
run;

```

Log

```

51  proc format;
52      value scale low-<0.5 = 'F'
53                0.5-<0.6 = 'E'
54                0.6-<0.7 = 'D'
55                0.7-<0.8 = 'C'
56                0.8-<0.9 = 'B'
57                0.9-1 = 'A';

```

NOTE: Format SCALE is already on the library WORK.FORMATS.

NOTE: Format SCALE has been output.

NOTE: PROCEDURE FORMAT used (Total process time):

real time	0.00 seconds
cpu time	0.00 seconds

```

58  data RESULTS;
59      input E1 E2 E3 CS $7.+1 ID $1.;
60      label E1 = 'Exam 1 grade'
61            E2 = 'Exam 2grade'
62            E3 = 'Exam 3grade'
63            CS = 'Lass Section'
64            ID = 'Student ID';
65      format E1-E3 scale.;
66      datalines;

```

NOTE: The data set WORK.RESULTS has 7 observations and 5 variables.

NOTE: DATA statement used (Total process time):

real time	0.01 seconds
cpu time	0.01 seconds

```

74      ;
75  run;
76  proc freq data=RESULTS;
77      table E1-E3;
78  run;

```

NOTE: There were 7 observations read from the data set WORK.RESULTS.

NOTE: PROCEDURE FREQ used (Total process time):

real time	0.11 seconds
cpu time	0.01 seconds

Output



## The SAS System

### The FREQ Procedure

Exam 1 grade				
E1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
F	1	14.29	1	14.29
C	1	14.29	2	28.57
B	3	42.86	5	71.43
A	2	28.57	7	100.00

Exam 2grade				
E2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
D	1	14.29	1	14.29
C	6	85.71	7	100.00

Exam 3grade				
E3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
F	1	14.29	1	14.29
D	1	14.29	2	28.57
B	2	28.57	4	57.14
A	3	42.86	7	100.00

6. Program

```

proc format;
    value ranges low-<0.6 = 'Weak'
                0.6-0.8 = 'Medium'
                0.8<-high = 'Good';
data RESULTS;
    Input E1 E2 E3 CS $7.+1 ID $1.;
    label E1 = 'Exam 1 grade'
           E2 = 'Exam 2grade'
           E3 = 'Exam 3grade'
           CS = 'Lass Section'
           ID = 'Student ID';
    Format E1-E3 ranges.;
    Datalines;
    0.844 0.76 0.913 Stat101 1
    0.889 0.73 0.93 Stat101 2
    0.90 0.77 0.84 Stat101 3
    0.74 0.69 0.61 Stat101 4
    0.94 0.76 0.31 Stat101 5
    0.87 0.73 0.85 Stat101 6
    0.26 0.74 0.90 Stat101 7
    ;
run;
proc freq data=RESULTS;
    table E1-E3;
run;

```

Log

```

26 proc format;
27     value ranges low-<0.6 = 'Weak'
28                 0.6-0.8 = 'Medium'
29                 0.8<-high = 'Good';

```

NOTE: Format RANGES has been output.

NOTE: PROCEDURE FORMAT used (Total process time):

```

real time      0.01 seconds
cpu time       0.01 seconds

```

```

30 data RESULTS;
31     Input E1 E2 E3 CS $7.+1 ID $1.;
32     label E1 = 'Exam 1 grade'
33           E2 = 'Exam 2grade'
34           E3 = 'Exam 3grade'
35           CS = 'Lass Section'
36           ID = 'Student ID';
37     Format E1-E3 ranges.;
38     Datalines;

```

NOTE: The data set WORK.RESULTS has 7 observations and 5 variables.

NOTE: DATA statement used (Total process time):

```

real time      0.01 seconds
cpu time       0.01 seconds

```

```

46     ;
47 run;
48 proc freq data=RESULTS;
49     table E1-E3;
50 run;

```

NOTE: Writing HTML Body file: sashtml.htm

NOTE: There were 7 observations read from the data set WORK.RESULTS.

NOTE: PROCEDURE FREQ used (Total process time):

```

real time      0.28 seconds
cpu time       0.09 seconds

```

Output

## The SAS System

### The FREQ Procedure

Exam 1 grade				
E1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Weak	1	14.29	1	14.29
Medium	1	14.29	2	28.57
Good	5	71.43	7	100.00

Exam 2grade				
E2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Medium	7	100.00	7	100.00

Exam 3grade				
E3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Weak	1	14.29	1	14.29
Medium	1	14.29	2	28.57
Good	5	71.43	7	100.00

#### 7. Program

```
libname folder 'C:\Users\zl1409a\Desktop';  
proc format library = folder;  
    value ranges low-<0.6 = 'Weak'  
              0.6-0.8 = 'Medium'  
              0.8<-high = 'Good';  
    value scale low-<0.5 = 'F'  
              0.5-<0.6 = 'E'  
              0.6-<0.7 = 'D'  
              0.7-<0.8 = 'C'  
              0.8-<0.9 = 'B'  
              0.9-1 = 'A';  
run;
```

Log

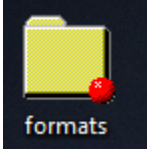
```

79 libname folder 'C:\Users\zl1409a\Desktop';
NOTE: Libref FOLDER was successfully assigned as follows:
      Engine:          V9
      Physical Name: C:\Users\zl1409a\Desktop
80 proc format library = folder;
81     value ranges low-<0.6 = 'Weak'
82             0.6-0.8 = 'Medium'
83             0.8<-high = 'Good';
NOTE: Format RANGES has been written to FOLDER.FORMATS.
84     value scale low-<0.5 = 'F'
85             0.5-<0.6 = 'E'
86             0.6-<0.7 = 'D'
87             0.7-<0.8 = 'C'
88             0.8-<0.9 = 'B'
89             0.9-1 = 'A';
NOTE: Format SCALE has been written to FOLDER.FORMATS.
90 run;

NOTE: PROCEDURE FORMAT used (Total process time):
      real time          0.09 seconds
      cpu time           0.01 seconds

```

Output



Contents of 'Tmp1.Formats'				
Name	Size	Type	Description	Mod
Ranges	0.3KB	Format		29Se
Scale	0.5KB	Format		29Se