

```

1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
69
70      */////*PROJECT 6*/////*;
71
72      *///*PROBLEM 1*///*;
73      *Part 1*;
74      %LET ClassAge = Pre-K 4;
75
76      *Part 2*;
77      DATA final;
78          INFILE '/home/u63559709/sasuser.v94/Week 6/school 1 final.csv' DSD firstobs=2;
79          INPUT ClassID ChildID Gender $ ClassAge $ Language $ f1 f2 f3 f4;
80      RUN;

```

NOTE: The infile '/home/u63559709/sasuser.v94/Week 6/school 1 final.csv' is:
 Filename=/home/u63559709/sasuser.v94/Week 6/school 1 final.csv,
 Owner Name=u63559709,Group Name=oda,
 Access Permission=-rw-r--r--,
 Last Modified=04Oct2023:15:18:36,
 File Size (bytes)=1056

NOTE: 22 records were read from the infile '/home/u63559709/sasuser.v94/Week 6/school 1 final.csv'.
 The minimum record length was 36.
 The maximum record length was 45.

NOTE: The data set WORK.FINAL has 22 observations and 9 variables.

NOTE: DATA statement used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	873.93k
OS Memory	28580.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	175 Switch Count 2
Page Faults	0
Page Reclaims	94
Page Swaps	0
Voluntary Context Switches	18
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	272

```

81
82      PROC PRINT DATA=final;
83      TITLE "School Data";
84      Run;

```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.02 seconds
user cpu time	0.03 seconds
system cpu time	0.00 seconds
memory	1338.25k
OS Memory	28580.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	176 Switch Count 1
Page Faults	0
Page Reclaims	69
Page Swaps	0
Voluntary Context Switches	8
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	8

```

85
86      DATA ClassAge_final;
87          INFILE '/home/u63559709/sasuser.v94/Week 6/school 1 final.csv' DSD firstobs=2;
88          INPUT ClassID ChildID Gender $ ClassAge $ Language $ f1 f2 f3 f4;
89          IF ClassAge = "&ClassAge";
90      RUN;

```

NOTE: The infile '/home/u63559709/sasuser.v94/Week 6/school 1 final.csv' is:
 Filename=/home/u63559709/sasuser.v94/Week 6/school 1 final.csv,
 Owner Name=u63559709,Group Name=oda,
 Access Permission=-rw-r--r--,
 Last Modified=04Oct2023:15:18:36,
 File Size (bytes)=1056

NOTE: 22 records were read from the infile '/home/u63559709/sasuser.v94/Week 6/school 1 final.csv'.
 The minimum record length was 36.
 The maximum record length was 45.
 NOTE: The data set WORK.CLASSAGE_FINAL has 7 observations and 9 variables.
 NOTE: DATA statement used (Total process time):
 real time 0.00 seconds
 user cpu time 0.00 seconds
 system cpu time 0.00 seconds
 memory 769.59k
 OS Memory 28580.00k
 Timestamp 10/08/2023 02:50:49 AM
 Step Count 177 Switch Count 2
 Page Faults 0
 Page Reclaims 93
 Page Swaps 0
 Voluntary Context Switches 17
 Involuntary Context Switches 0
 Block Input Operations 0
 Block Output Operations 264

```
91
92     PROC PRINT Data=ClassAge_final;
93     TITLE "School Info";
94     RUN;
```

NOTE: There were 7 observations read from the data set WORK.CLASSAGE_FINAL.
 NOTE: PROCEDURE PRINT used (Total process time):
 real time 0.01 seconds
 user cpu time 0.02 seconds
 system cpu time 0.00 seconds
 memory 813.34k
 OS Memory 28580.00k
 Timestamp 10/08/2023 02:50:49 AM
 Step Count 178 Switch Count 1
 Page Faults 0
 Page Reclaims 64
 Page Swaps 0
 Voluntary Context Switches 7
 Involuntary Context Switches 0
 Block Input Operations 0
 Block Output Operations 16

```
95
96     *Part 3*;
97     %macro average(category, question, outdataset=averagescore);
98
99     PROC MEANS DATA=final NOPRINT;
100     BY &category;
101     VAR &question;
102     OUTPUT OUT=&outdataset MEAN=;
103     RUN;
104
105     %mend average;
106
107     PROC SORT DATA=final;
108     BY ClassAge;
109     RUN;
```

NOTE: There were 22 observations read from the data set WORK.FINAL.
 NOTE: The data set WORK.FINAL has 22 observations and 9 variables.
 NOTE: PROCEDURE SORT used (Total process time):
 real time 0.00 seconds
 user cpu time 0.00 seconds
 system cpu time 0.00 seconds
 memory 938.31k
 OS Memory 28840.00k
 Timestamp 10/08/2023 02:50:49 AM
 Step Count 179 Switch Count 2
 Page Faults 0
 Page Reclaims 115
 Page Swaps 0
 Voluntary Context Switches 12
 Involuntary Context Switches 0
 Block Input Operations 0
 Block Output Operations 264

```
111      %average(ClassAge, f1);
```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.AVERAGESCORE has 3 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.00 seconds
user cpu time   0.00 seconds
system cpu time 0.00 seconds
memory         1998.31k
OS Memory      29868.00k
Timestamp      10/08/2023 02:50:49 AM
Step Count     180  Switch Count  3
Page Faults    0
Page Reclaims  252
Page Swaps     0
Voluntary Context Switches 15
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 264
```

```
112
```

```
113      PROC PRINT DATA=averagescore;
```

```
114          TITLE "Average of f1 by ClassAge";
```

```
115      RUN;
```

NOTE: There were 3 observations read from the data set WORK.AVERAGESCORE.

NOTE: PROCEDURE PRINT used (Total process time):

```
real time      0.00 seconds
user cpu time   0.01 seconds
system cpu time 0.00 seconds
memory         839.81k
OS Memory      28580.00k
Timestamp      10/08/2023 02:50:49 AM
Step Count     181  Switch Count  1
Page Faults    0
Page Reclaims  66
Page Swaps     0
Voluntary Context Switches 9
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 0
```

```
116
```

```
117      *Part 4*;
```

```
118      PROC SORT DATA=final;
```

```
119      BY Gender;
```

```
120      RUN;
```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.FINAL has 22 observations and 9 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
real time      0.00 seconds
user cpu time   0.01 seconds
system cpu time 0.00 seconds
memory         938.43k
OS Memory      28840.00k
Timestamp      10/08/2023 02:50:49 AM
Step Count     182  Switch Count  2
Page Faults    0
Page Reclaims  116
Page Swaps     0
Voluntary Context Switches 14
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 264
```

```
121      %average(category=Gender, question=f1, outdataset=averagescore_Gender);
```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.AVERAGESCORE_GENDER has 2 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.00 seconds
user cpu time   0.00 seconds
system cpu time 0.00 seconds
memory         1998.31k
OS Memory      29868.00k
Timestamp      10/08/2023 02:50:49 AM
Step Count     183  Switch Count  3
```

Page Faults	0
Page Reclaims	250
Page Swaps	0
Voluntary Context Switches	18
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

```

122
123      *Part 5*;
124      PROC SORT DATA=final;
125      By ClassAge;
126      RUN;

```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.FINAL has 22 observations and 9 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	1050.56k
OS Memory	28840.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	184
Switch Count	2
Page Faults	0
Page Reclaims	117
Page Swaps	0
Voluntary Context Switches	14
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	272

```

127      %average(category= ClassAge, question=f3, outdataset=averagescore_ClassAge)

```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.AVERAGESCORE_CLASSAGE has 3 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	1998.31k
OS Memory	29868.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	185
Switch Count	3
Page Faults	0
Page Reclaims	251
Page Swaps	0
Voluntary Context Switches	16
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

```

128
129      *Part 6*;
130      %macro class(category);
131
132      %IF &category = Gender %THEN %DO;
133      PROC MEANS DATA=final NOPRINT;
134      BY &category;
135      VAR f1;
136      OUTPUT OUT=meanscore_gender MEAN=;
137      RUN;
138
139      PROC PRINT DATA=meanscore_gender;
140      TITLE "Average of f1 by Gender";
141      RUN;
142
143      %END;
144
145      %ELSE %IF &category = ClassAge %THEN %DO;
146      PROC MEANS DATA=final NOPRINT;
147      BY &category;
148      VAR f2;
149      OUTPUT OUT=meanscore_classage MEAN=;
150      RUN;
151
152      PROC PRINT DATA=meanscore_classage;
153      TITLE "Average of f2 by ClassAge";

```

```

154      RUN;
155
156      %END;
157
158      %mend class;
159
160      *Part 7*;
161      PROC SORT DATA=final;
162          BY Gender;
163      RUN;

```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.FINAL has 22 observations and 9 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	938.31k
OS Memory	28840.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	186 Switch Count 2
Page Faults	0
Page Reclaims	116
Page Swaps	0
Voluntary Context Switches	10
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	272

```

164      %class(category=Gender);

```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.MEANSORE_GENDER has 2 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	1993.53k
OS Memory	29868.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	187 Switch Count 3
Page Faults	0
Page Reclaims	252
Page Swaps	0
Voluntary Context Switches	15
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

NOTE: There were 2 observations read from the data set WORK.MEANSORE_GENDER.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	683.15k
OS Memory	28580.00k
Timestamp	10/08/2023 02:50:49 AM
Step Count	188 Switch Count 1
Page Faults	0
Page Reclaims	65
Page Swaps	0
Voluntary Context Switches	5
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	0

```

165
166      *Part 8*;
167      PROC SORT DATA=final;
168          BY ClassAge;
169      RUN;

```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.FINAL has 22 observations and 9 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds

```

memory          938.31k
OS Memory       28840.00k
Timestamp       10/08/2023 02:50:50 AM
Step Count      189   Switch Count  2
Page Faults     0
Page Reclaims   115
Page Swaps      0
Voluntary Context Switches  14
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  264

```

```
170      %class(category=ClassAge);
```

NOTE: There were 22 observations read from the data set WORK.FINAL.

NOTE: The data set WORK.MEANSORE_CLASSAGE has 3 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

```

real time       0.00 seconds
user cpu time   0.00 seconds
system cpu time 0.00 seconds
memory          1994.03k
OS Memory       29868.00k
Timestamp       10/08/2023 02:50:50 AM
Step Count      190   Switch Count  3
Page Faults     0
Page Reclaims   250
Page Swaps      0
Voluntary Context Switches  15
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  264

```

NOTE: There were 3 observations read from the data set WORK.MEANSORE_CLASSAGE.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time       0.00 seconds
user cpu time   0.01 seconds
system cpu time 0.00 seconds
memory          571.53k
OS Memory       28580.00k
Timestamp       10/08/2023 02:50:50 AM
Step Count      191   Switch Count  1
Page Faults     0
Page Reclaims   66
Page Swaps      0
Voluntary Context Switches  4
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  0

```

```

171
172      ***PROBLEM 2***;
173      *Part 1*;
174      DATA death_count;
175          INFILE '/home/u63559709/sasuser.v94/Week 6/2010-2015-Age65above Final Death Count.csv' DSD firstobs=2;
176          INPUT year month gender $ age ICD10 $ death;
177      RUN;

```

NOTE: The infile '/home/u63559709/sasuser.v94/Week 6/2010-2015-Age65above Final Death Count.csv' is:

```

Filename=/home/u63559709/sasuser.v94/Week 6/2010-2015-Age65above Final Death Count.csv,
Owner Name=u63559709,Group Name=oda,
Access Permission=-rw-r--r--,
Last Modified=04Oct2023:15:18:36,
File Size (bytes)=631470

```

NOTE: 33264 records were read from the infile '/home/u63559709/sasuser.v94/Week 6/2010-2015-Age65above Final Death Count.csv'.

The minimum record length was 15.

The maximum record length was 22.

NOTE: The data set WORK.DEATH_COUNT has 33264 observations and 6 variables.

NOTE: DATA statement used (Total process time):

```

real time       0.01 seconds
user cpu time   0.02 seconds
system cpu time 0.00 seconds
memory          2174.31k
OS Memory       29348.00k
Timestamp       10/08/2023 02:50:50 AM
Step Count      192   Switch Count  2
Page Faults     0
Page Reclaims   172

```

Page Swaps	0
Voluntary Context Switches	18
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	3336

```

178
179      PROC PRINT DATA=death_count(OBS=10);
180      TITLE "Death Count";
181      RUN;

```

NOTE: There were 10 observations read from the data set WORK.DEATH_COUNT.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.01 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	2144.84k
OS Memory	29348.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	193 Switch Count 1
Page Faults	0
Page Reclaims	258
Page Swaps	0
Voluntary Context Switches	6
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	16

```

182
183      *Part 2*;
184      PROC SORT DATA=death_count;
185      BY year;
186      RUN;

```

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

NOTE: The data set WORK.DEATH_COUNT has 33264 observations and 6 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.01 seconds
memory	5862.87k
OS Memory	32960.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	194 Switch Count 2
Page Faults	0
Page Reclaims	884
Page Swaps	0
Voluntary Context Switches	14
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	3336

```

187
188      PROC MEANS DATA=death_count NOPRINT;
189      BY year;
190      VAR death;
191      OUTPUT OUT=yearly_death_sum SUM=total_death;
192      RUN;

```

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

NOTE: The data set WORK.YEARLY_DEATH_SUM has 6 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	3449.46k
OS Memory	30636.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	195 Switch Count 5
Page Faults	0
Page Reclaims	442
Page Swaps	0
Voluntary Context Switches	21
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

```

193
194     PROC PRINT DATA=yearly_death_sum;
195         TITLE "Death Chart";
196     RUN;

```

NOTE: There were 6 observations read from the data set WORK.YEARLY_DEATH_SUM.

NOTE: PROCEDURE PRINT used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	838.31k
OS Memory	28580.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	196
Page Faults	0
Page Reclaims	66
Page Swaps	0
Voluntary Context Switches	9
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	0

```

197
198     PROC SGPLOT DATA=yearly_death_sum;
199         HBAR year / RESPONSE=total_death;
200         TITLE "Total Deaths by Year";
201     RUN;

```

NOTE: Since no format is assigned, the numeric category variable will use the default of BEST6.

NOTE: PROCEDURE SGPLOT used (Total process time):

real time	0.06 seconds
user cpu time	0.03 seconds
system cpu time	0.00 seconds
memory	7782.09k
OS Memory	32140.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	197
Page Faults	0
Page Reclaims	1187
Page Swaps	0
Voluntary Context Switches	153
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	600

NOTE: There were 6 observations read from the data set WORK.YEARLY_DEATH_SUM.

```

202
203     *Part 3*;
204     PROC SORT DATA=death_count;
205         BY ICD10;
206     RUN;

```

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

NOTE: The data set WORK.DEATH_COUNT has 33264 observations and 6 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.01 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	5856.31k
OS Memory	36032.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	198
Page Faults	0
Page Reclaims	884
Page Swaps	0
Voluntary Context Switches	13
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	3336

```

207
208     PROC MEANS DATA=death_count NOPRINT;
209         BY ICD10;
210         VAR death;
211         OUTPUT OUT=ICD10_death_sum SUM=total_death;
212     RUN;

```

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

NOTE: The data set WORK.ICD10_DEATH_SUM has 11 observations and 4 variables.

NOTE: PROCEDURE MEANS used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	3345.28k
OS Memory	33708.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	199 Switch Count 5
Page Faults	0
Page Reclaims	452
Page Swaps	0
Voluntary Context Switches	18
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

```

213
214     ODS LISTING GPATH = '/home/u63559709/sasuser.v94/Week 6';
215     ODS GRAPHICS / RESET
216         IMAGENAME = 'Total Death by Death Code'
217         OUTPUTFMT = PNG
218         HEIGHT = 4IN WIDTH = 6IN;
219
220     PROC SGPLOT DATA=ICD10_death_sum;
221         SCATTER X=ICD10 Y=total_death / DATALABEL=ICD10;
222         XAXIS LABEL='Death Code';
223         YAXIS LABEL='Total Death';
224         TITLE "Total Death by Death Code";
225     RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

real time	0.11 seconds
user cpu time	0.05 seconds
system cpu time	0.00 seconds
memory	8382.65k
OS Memory	38704.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	200 Switch Count 2
Page Faults	0
Page Reclaims	1981
Page Swaps	0
Voluntary Context Switches	237
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	528

NOTE: Listing image output written to /home/u63559709/sasuser.v94/Week 6/Total Death by Death Code.png.

NOTE: There were 11 observations read from the data set WORK.ICD10_DEATH_SUM.

```

226
227     *Part 4*;
228     DATA death_ICD52;
229         SET death_count;
230         WHERE ICD10 = '52';
231     RUN;

```

NOTE: There were 3024 observations read from the data set WORK.DEATH_COUNT.

WHERE ICD10='52';

NOTE: The data set WORK.DEATH_ICD52 has 3024 observations and 6 variables.

NOTE: DATA statement used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	2413.90k
OS Memory	39080.00k
Timestamp	10/08/2023 02:50:50 AM
Step Count	201 Switch Count 9
Page Faults	0
Page Reclaims	300
Page Swaps	0
Voluntary Context Switches	32
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	520

```

232
233     PROC SGPLOT DATA=death_ICD52;
234         HISTOGRAM death;

```

```

235         TITLE "Histogram of Deaths with ICD=52";
236     RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time          0.09 seconds
user cpu time      0.04 seconds
system cpu time    0.00 seconds
memory            2366.25k
OS Memory          39216.00k
Timestamp          10/08/2023 02:50:50 AM
Step Count         202   Switch Count   2
Page Faults        0
Page Reclaims      528
Page Swaps         0
Voluntary Context Switches 197
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 456

```

NOTE: Listing image output written to /home/u63559709/sasuser.v94/Week 6/Total Death by Death Code1.png.

NOTE: There were 3024 observations read from the data set WORK.DEATH_ICD52.

```

237
238     *Part 5*;
239     PROC SGPLOT DATA=death_count;
240         VBOX death / CATEGORY=gender;
241         TITLE "Deaths by Gender";
242     RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time          0.64 seconds
user cpu time      0.18 seconds
system cpu time    0.23 seconds
memory            5502.65k
OS Memory          42796.00k
Timestamp          10/08/2023 02:50:51 AM
Step Count         203   Switch Count  10
Page Faults        0
Page Reclaims      2070
Page Swaps         0
Voluntary Context Switches 31264
Involuntary Context Switches 1
Block Input Operations 0
Block Output Operations 5280

```

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Listing image output written to /home/u63559709/sasuser.v94/Week 6/Total Death by Death Code2.png.

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

```

243
244     PROC SGPLOT DATA=death_count;
245         VBOX death / CATEGORY=gender;
246         TITLE "Deaths by Gender (Without Outliers)";
247         YAXIS MAX=200;
248     RUN;

```

NOTE: PROCEDURE SGPLOT used (Total process time):

```

real time          0.65 seconds
user cpu time      0.16 seconds
system cpu time    0.27 seconds
memory            5285.21k
OS Memory          42796.00k
Timestamp          10/08/2023 02:50:51 AM
Step Count         204   Switch Count  10
Page Faults        0
Page Reclaims      1937
Page Swaps         0
Voluntary Context Switches 31249
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 5280

```

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Listing image output written to /home/u63559709/sasuser.v94/Week 6/Total Death by Death Code3.png.

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

```

249
250 *Part 6*;
251 ODS LISTING GPATH = '/home/u63559709/sasuser.v94/Week 6';
252 ODS GRAPHICS / RESET
253     IMAGENAME = 'Death by Month'
254     OUTPUTFMT = PNG
255     HEIGHT = 3IN WIDTH = 6IN;
256
257 proc sgplot data=death_count;
258     title "Deaths by Month(Adjusted)";
259     hbox death / category=month NOOUTLIERS;
260     xaxis max=1000;
261 run;

```

NOTE: Since no format is assigned, the numeric category variable will use the default of BEST6.

NOTE: PROCEDURE SGPLOT used (Total process time):

real time	0.41 seconds
user cpu time	0.15 seconds
system cpu time	0.12 seconds
memory	4908.31k
OS Memory	42796.00k
Timestamp	10/08/2023 02:50:52 AM
Step Count	205 Switch Count 10
Page Faults	0
Page Reclaims	1857
Page Swaps	0
Voluntary Context Switches	15936
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	5328

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Listing image output written to /home/u63559709/sasuser.v94/Week 6/Death by Month.png.

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

```

262
263 proc sgplot data=death_count;
264     title "Deaths by Month";
265     hbox death / category=month;
266 run;

```

NOTE: Since no format is assigned, the numeric category variable will use the default of BEST6.

NOTE: PROCEDURE SGPLOT used (Total process time):

real time	0.40 seconds
user cpu time	0.14 seconds
system cpu time	0.13 seconds
memory	4888.43k
OS Memory	42796.00k
Timestamp	10/08/2023 02:50:52 AM
Step Count	206 Switch Count 10
Page Faults	0
Page Reclaims	1850
Page Swaps	0
Voluntary Context Switches	15950
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	5352

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Marker and line antialiasing has been disabled for at least one plot because the threshold has been reached. You can set ANTIALIASMAX=5200 in the ODS GRAPHICS statement to enable antialiasing for all plots.

NOTE: Listing image output written to /home/u63559709/sasuser.v94/Week 6/Death by Month1.png.

NOTE: There were 33264 observations read from the data set WORK.DEATH_COUNT.

```

267
268 OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
278

```