NOTE: Updated analytical products:

    SAS/STAT 13.2
    SAS/ETS 13.2
    SAS/OR 13.2
    SAS/IML 13.2
    SAS/QC 13.2

NOTE: Additional host information:

 X64_8PRO WIN 6.2.9200 Workstation

NOTE: SAS initialization used:
    real time   1.40 seconds
    cpu time   0.64 seconds

```
1   /********************************************************************************
2     Program Name: jblubau1_hw08_script
3     Date Created: 10/9/2016
4     Author: Joseph Blubaugh
5     Purpose: Homework Assignment 8
6     ******************************************************************************** */
7
8   libname orion 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
8 ! 1\PRG1_Data_and_Programs' access=readonly;
```
NOTE: Libref ORION was successfully assigned as follows:
    Engine: V9
    Physical Name: C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
    1\PRG1_Data_and_Programs
```
9   libname output 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Data';
```
NOTE: Libref OUTPUT was successfully assigned as follows:
    Engine: V9
    Physical Name: C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Data
```
10
11   *1) Open p103e02;
12   data work.donations;
13     infile 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
13 ! 1\PRG1_Data_and_Programs\donation.dat';
14     input Employee_ID Qtr1 Qtr2 Qtr3 Qtr4;
15     Total=sum(Qtr1,Qtr2,Qtr3,Qtr4);
16   run;
```

NOTE: The infile 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS

1\PRG1_Data_and_Programs\donation.dat' is:

Filename=C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
1\PRG1_Data_and_Programs\donation.dat,
RECFM=V,LRECL=32767,File Size (bytes)=2347,
Last Modified=31Mar2009:14:30:44,
Create Time=09Oct2016:10:17:38

NOTE: 124 records were read from the infile
'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
1\PRG1_Data_and_Programs\donation.dat'.
The minimum record length was 14.
The maximum record length was 18.
NOTE: The data set WORK.DONATIONS has 124 observations and 6 variables.
NOTE: DATA statement used (Total process time):
real time   0.01 seconds
cpu time   0.01 seconds

17
18   *proc print data=work.donations;
19
20   *2) Save file under different name;
21   *3) Created header block at the beginning of the script;
22   *4) Creted two librefs between the header and the first step;
23   *5) Add the full path to the file location in step 1;
24   *6) Add single character to comment out the proc print line;
25   *7) Import the data set into the output directory;
26   data output.donations;
27   infile 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
27 ! 1\PRG1_Data_and_Programs\donation.dat';
28   input Employee_ID Qtr1 Qtr2 Qtr3 Qtr4;
29   Total=sum(Qtr1,Qtr2,Qtr3,Qtr4);
30   run;

NOTE: The infile 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
1\PRG1_Data_and_Programs\donation.dat' is:

Filename=C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
1\PRG1_Data_and_Programs\donation.dat,
RECFM=V,LRECL=32767,File Size (bytes)=2347,
Last Modified=31Mar2009:14:30:44,
Create Time=09Oct2016:10:17:38

NOTE: 124 records were read from the infile
'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
1\PRG1_Data_and_Programs\donation.dat'.
The minimum record length was 14.

The maximum record length was 18.
NOTE: The data set OUTPUT.DONATIONS has 124 observations and 6 variables.
NOTE: DATA statement used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

31
32   *8) Add ods pdf output;
33   ods pdf file='jblubau1_hw08_output_a.pdf' bookmarkgen=no;
NOTE: Writing ODS PDF output to DISK destination "C:\Users\Joseph\jblubau1_hw08_output_a.pdf",
    printer "PDF".
34
35   *9) Add proc contents step;
36   proc contents data=output.donations;
NOTE: Writing HTML Body file: sashtml.htm
37   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
    real time   0.35 seconds
    cpu time   0.28 seconds

38
39   *10) Display contents of work library;
40   proc contents data=work._all_;
41   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
    real time   0.09 seconds
    cpu time   0.04 seconds

42
43   *11) Show contents of orion library with no data;
44   proc contents data=orion._all_ nods;
45   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
    real time   0.08 seconds
    cpu time   0.03 seconds

46
47   *12) Close pdf;
48   ods pdf close;
NOTE: ODS PDF printed 5 pages to C:\Users\Joseph\jblubau1_hw08_output_a.pdf.

```
1    /********************************************************************************
2    Program Name: jblubau1_hw08_script
3    Date Created: 10/9/2016
4    Author: Joseph Blubaugh
5    Purpose: Homework Assignment 8
6    ******************************************************************************** */
7
8    libname orion 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
8  ! 1\PRG1_Data_and_Programs' access=readonly;
NOTE: Libref ORION was successfully assigned as follows:
     Engine:        V9
     Physical Name: C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
     1\PRG1_Data_and_Programs
9    libname output 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Data';
NOTE: Libref OUTPUT was successfully assigned as follows:
     Engine:        V9
     Physical Name: C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Data
10
11   *1) Open p103e02;
12   /* data work.donations;
13     infile 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
13 ! 1\PRG1_Data_and_Programs\donation.dat';
14     input Employee_ID Qtr1 Qtr2 Qtr3 Qtr4;
15     Total=sum(Qtr1,Qtr2,Qtr3,Qtr4);
16   run;
17
18   *proc print data=work.donations;
19
20   *2) Save file under different name;
21   *3) Created header block at the beginning of the script;
22   *4) Creted two librefs between the header and the first step;
23   *5) Add the full path to the file location in step 1;
24   *6) Add single character to comment out the proc print line;
25   *7) Import the data set into the output directory;
26   data output.donations;
27     infile 'C:\Users\Joseph\Projects\learning\Statistics\STAT_604\Materials\SAS
27 ! 1\PRG1_Data_and_Programs\donation.dat';
28     input Employee_ID Qtr1 Qtr2 Qtr3 Qtr4;
29     Total=sum(Qtr1,Qtr2,Qtr3,Qtr4);
30   run;
31   */
32
33   *8) Add ods pdf output;
34   ods pdf file='jblubau1_hw08_output_b.pdf' style=Ocean bookmarkgen=no;
NOTE: Writing ODS PDF output to DISK destination "C:\Users\Joseph\jblubau1_hw08_output_b.pdf",
     printer "PDF".
35
36   *9) Add proc contents step;
```

37   proc contents data=output.donations;
NOTE: Writing HTML Body file: sashtml.htm
38   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
      real time   0.29 seconds
      cpu time   0.23 seconds

39
40   *10) Display contents of work library;
41   proc contents data=work._all_;
42   run;

WARNING: No matching members in directory.
NOTE: PROCEDURE CONTENTS used (Total process time):
      real time   0.07 seconds
      cpu time   0.01 seconds

43
44   *11) Show contents of orion library with no data;
45   proc contents data=orion._all_ nods;
46   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
      real time   0.09 seconds
      cpu time   0.06 seconds

47
48   *12) Close pdf;
49   ods pdf close;
NOTE: ODS PDF printed 4 pages to C:\Users\Joseph\jblubau1_hw08_output_b.pdf.

###
##
The 2 results are different because in the first run, we imported the data from orion and wrote it to our own
SAS library. The second run tried to print contents from the workspace but there was nothing there because
we commented out the import into WORK before we ran the script.