

Program Summary - Lab0.sas

Execution Environment

Author: u63989193
File: /home/u63989193/sasuser.v94/Lab0.sas
SAS Platform: Linux LIN X64 5.14.0-284.30.1.el9_2.x86_64
SAS Host: ODAWS01-USW2.ODA.SAS.COM
SAS Version: 9.04.01M7P08062020
SAS Locale: en_US
Submission Time: 8/27/2024, 10:39:54 AM
Browser Host: VL1502-029168000-02.NAT.IASTATE.EDU
User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.0.0 Safari/537.36
Application Server: ODAMID00-USW2.ODA.SAS.COM

Code: Lab0.sas

```
data tomato;
  infile '/home/u63989193/my_shared_file_links/u63538023/STAT5000_Fall2024_ISU/tomato.txt';
  input group $ yield;
run;

proc ttest;
  class group;
  var yield;
  title 'T-test of tomato yield';
run;

proc sort;
  by group; /* sort the data by group before doing the boxplot */
  proc boxplot;
  plot yield*group;
  title 'High resolution boxplots for each group';
run;
```

Log: Lab0.sas

Notes (13)

```
1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69      data tomato;
70      infile '/home/u63989193/my_shared_file_links/u63538023/STAT5000_Fall2024_ISU/tomato.txt';
71      input group $ yield;
72      run;
```

NOTE: The infile '/home/u63989193/my_shared_file_links/u63538023/STAT5000_Fall2024_ISU/tomato.txt' is:
Filename=/home/u63989193/my_shared_file_links/u63538023/STAT5000_Fall2024_ISU/tomato.txt,
Owner Name=u63538023,Group Name=UNKNOWN,
Access Permission=-rw-r--r--,
Last Modified=22Aug2023:14:36:27,
File Size (bytes)=78

NOTE: 12 records were read from the infile '/home/u63989193/my_shared_file_links/u63538023/STAT5000_Fall2024_ISU/tomato.txt'.
The minimum record length was 0.
The maximum record length was 6.

NOTE: SAS went to a new line when INPUT statement reached past the end of a line.

NOTE: The data set WORK.TOMATO has 11 observations and 2 variables.

NOTE: DATA statement used (Total process time):

real time	0.01 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	755.21k
OS Memory	19620.00k

```

Timestamp          08/27/2024 03:39:52 PM
Step Count          24  Switch Count  2
Page Faults         0
Page Reclaims       145
Page Swaps          0
Voluntary Context Switches  24
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 264

```

```

73
74      proc ttest;
75      class group;
76      var yield;
77      title 'T-test of tomato yield';
78      run;

```

NOTE: PROCEDURE TTEST used (Total process time):

```

real time          2.58 seconds
user cpu time       0.15 seconds
system cpu time     0.05 seconds
memory             17879.84k
OS Memory          37072.00k
Timestamp          08/27/2024 03:39:54 PM
Step Count          25  Switch Count  45
Page Faults         0
Page Reclaims       28807
Page Swaps          0
Voluntary Context Switches 1160
Involuntary Context Switches 5
Block Input Operations 0
Block Output Operations 1088

```

```

79
80      proc sort;
81      by group; /* sort the data by group before doing the boxplot */
82

```

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

NOTE: The data set WORK.TOMATO has 11 observations and 2 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time          0.00 seconds
user cpu time       0.00 seconds
system cpu time     0.01 seconds
memory             946.03k
OS Memory          31664.00k
Timestamp          08/27/2024 03:39:54 PM
Step Count          26  Switch Count  2
Page Faults         0
Page Reclaims       123
Page Swaps          0
Voluntary Context Switches 18
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 264

```

```

82      ! proc boxplot;
83      plot yield*group;
84      title 'High resolution boxplots for each group';
85      run;

```

NOTE: Since an input data set was not specified, data set TOMATO is assumed as a DATA= data set.

NOTE: Processing beginning for PLOT statement number 1.

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

NOTE: PROCEDURE BOXPLOT used (Total process time):

```

real time          0.16 seconds
user cpu time       0.06 seconds
system cpu time     0.01 seconds
memory             9550.56k
OS Memory          37656.00k
Timestamp          08/27/2024 03:39:54 PM
Step Count          27  Switch Count  1
Page Faults         0

```

Page Reclaims 1880
Page Swaps 0
Voluntary Context Switches 341
Involuntary Context Switches 3
Block Input Operations 0
Block Output Operations 352

86
87 OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
97

Results: Lab0.sas

‘T-test of tomato yield’

The TTEST Procedure

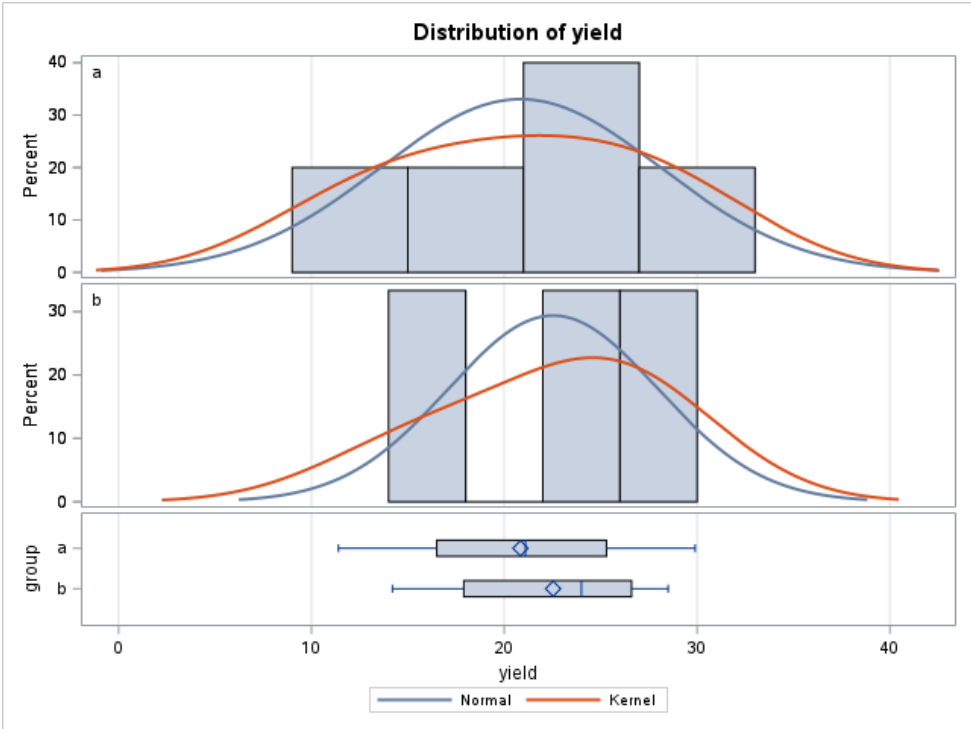
Variable: yield

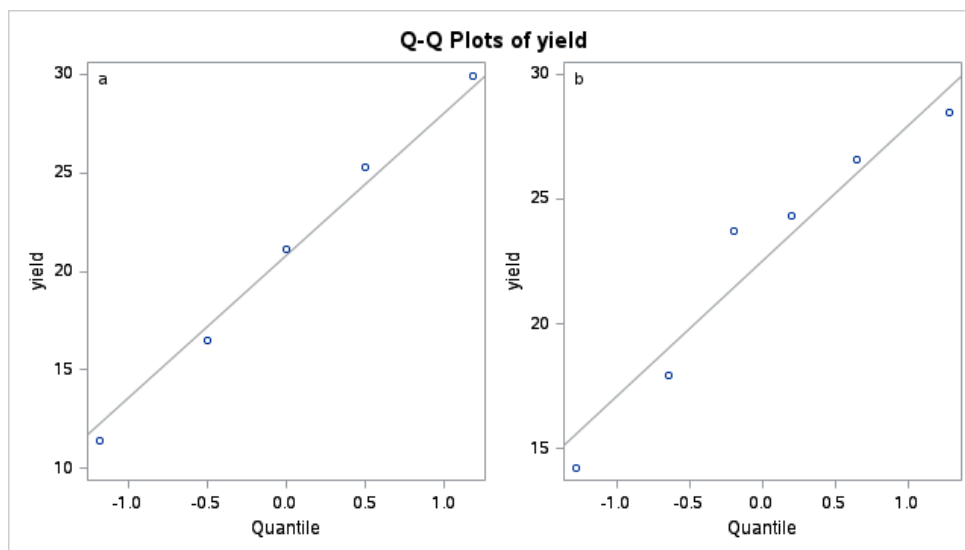
group	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
a		5	20.8400	7.2456	3.2403	11.4000	29.9000
b		6	22.5333	5.4320	2.2176	14.2000	28.5000
Diff (1-2)	Pooled		-1.6933	6.3028	3.8165		
Diff (1-2)	Satterthwaite		-1.6933		3.9265		

group	Method	Mean	95% CL Mean	Std Dev	95% CL Std Dev
a		20.8400	11.8435 29.8365	7.2456	4.3410 20.8205
b		22.5333	16.8328 28.2339	5.4320	3.3907 13.3226
Diff (1-2)	Pooled	-1.6933	-10.3269 6.9402	6.3028	4.3353 11.5064
Diff (1-2)	Satterthwaite	-1.6933	-10.8923 7.5056		

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	9	-0.44	0.6677
Satterthwaite	Unequal	7.3369	-0.43	0.6787

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	4	5	1.78	0.5400





'High resolution boxplots for each group'

