Introduction to SAS

Running Statistical Procedures

1. Use your code from last week to read in the same data file data.csv from Canvas:

SUBJECT	DOSE	REACT	LIVER_WT	SPLEEN
1	1	5.4	10.2	8.9
2	1	5.9	9.8	7.3
3	1	4.8	12.2	9.1
4	1	6.9	11.8	8.8
5	1	15.8	10.9	9
6	2	4.9	13.8	6.6
7	2	5	12	7.9
8	2	6.7	10.5	8
9	2	18.2	11.9	6.9
10	2	5.5	9.9	9.1

a. Use PROC CONTENTS to get an overview of the dataset

b. Use PROC UNIVARIATE to produce histograms, normal probability plots, and box plots. Do this for the variables REACT, LIVER_ WT, and SPLEEN, first for all subjects (without BY option) and then separately for each of DOSES (use BY option).

   i. What is the standard error of the mean for Liver_wt? What are the values for each dose?

   ii. What is the overall skewness of react? What are the values for each dose?

   iii. What is the overall mean for spleen? What are the values for each dose?

c. Determine if there is a difference in the reaction results for the two doses using PROC TTEST
Use alpha of 0.05.