Assignment #1, Problem 09 Page 84 of Text

The UNIVARIATE Procedure
Variable: rate

Moments			
N	25	**Sum Weights**	25
Mean	85.28	**Sum Observations**	2132
Std Deviation	8.2488383	**Variance**	68.0433333
Skewness	-0.3880652	**Kurtosis**	0.14570431
Uncorrected SS	183450	**Corrected SS**	1633.04
Coeff Variation	9.67265279	**Std Error Mean**	1.64976766

Basic Statistical Measures			
Location		**Variability**	
Mean	85.28000	**Std Deviation**	8.24884
Median	85.00000	**Variance**	68.04333
Mode	83.00000	**Range**	34.00000
		Interquartile Range	11.00000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.69213	**Pr > |t|**	<.0001
Sign	**M**	12.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	162.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.975884	**Pr < W**	0.7934
Kolmogorov-Smirnov	**D**	0.073539	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.025916	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.194823	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	99
99%	99
95%	97
90%	97
75% Q3	92
50% Median	85

Assignment #1, Problem 09 Page 84 of Text

The UNIVARIATE Procedure
Variable: rate

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	81
10%	76
5%	72
1%	65
0% Min	65

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
65	1	94	6
72	16	94	19
76	14	97	5
77	13	97	23
78	12	99	18

```
Stem Leaf                     #            Boxplot                            Normal Probability Plot
   9 779                      3               |              97.5+                                   ++*+++  *
   9 2344                     4            +-----+               |                             *+***+*
   8 556899                   6            *--+--*               |                       ******
   8 123344                   6            +-----+           82.5+                 ******
   7 6789                     4               |                  |           **+***+
   7 2                        1               |                  |      ++++*++
   6 5                        1               |              67.5+ +++++*+
     ----+----+----+----+                                        +----+----+----+----+----+----+----+----+----+----+
 Multiply Stem.Leaf by 10**+1                                        -2        -1         0        +1        +2
```