

**Assignment #1, Problem 09 Page 84 of Text****The UNIVARIATE Procedure**  
**Variable: rate**

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

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

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

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
<b>Student's t</b>	t	51.69213	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	M	12.5	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	S	162.5	<b>Pr &gt;=  S </b>	<.0001

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

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

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

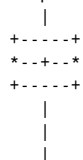
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
65	1	94	6
72	16	94	19
76	14	97	5
77	13	97	23
78	12	99	18

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Stem Leaf          #
 9  779            3
 9  2344           4
 8  556899         6
 8  123344         6
 7  6789           4
 7  2              1
 6  5              1
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Multiply Stem.Leaf by 10**+1

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Boxplot



Normal Probability Plot

