

## 10 Observations Plotted from the N(100, 15) distribution

The UNIVARIATE Procedure  
Variable: obs

Moments			
<b>N</b>	10	<b>Sum Weights</b>	10
<b>Mean</b>	98.8709102	<b>Sum Observations</b>	988.709102
<b>Std Deviation</b>	21.5051127	<b>Variance</b>	462.46987
<b>Skewness</b>	0.46250981	<b>Kurtosis</b>	0.03608465
<b>Uncorrected SS</b>	101916.798	<b>Corrected SS</b>	4162.22883
<b>Coeff Variation</b>	21.7506976	<b>Std Error Mean</b>	6.80051373

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	98.87091	<b>Std Deviation</b>	21.50511
<b>Median</b>	96.44431	<b>Variance</b>	462.46987
<b>Mode</b>	.	<b>Range</b>	71.19839
		<b>Interquartile Range</b>	24.37406

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	14.53874	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	5	<b>Pr &gt;=  M </b>	0.0020
<b>Signed Rank</b>	<b>S</b>	27.5	<b>Pr &gt;=  S </b>	0.0020

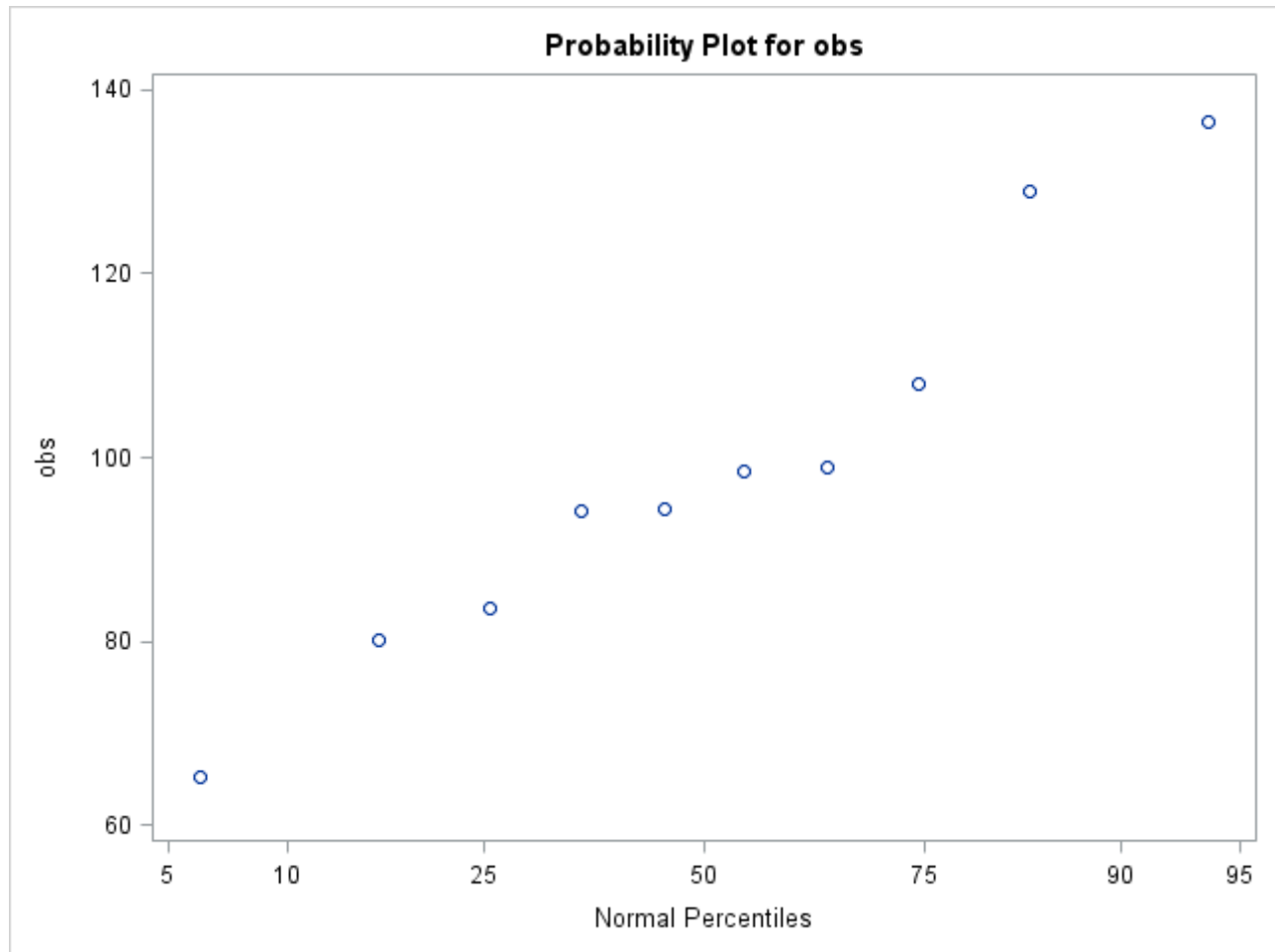
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	136.4571
<b>99%</b>	136.4571
<b>95%</b>	136.4571
<b>90%</b>	132.7605
<b>75% Q3</b>	107.9927
<b>50% Median</b>	96.4443
<b>25% Q1</b>	83.6186
<b>10%</b>	72.7110
<b>5%</b>	65.2587
<b>1%</b>	65.2587
<b>0% Min</b>	65.2587

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
65.2587	1	98.5831	4
80.1633	5	99.0154	7
83.6186	10	107.9927	9
94.2506	2	129.0640	3
94.3055	8	136.4571	6



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## 100 Observations Plotted from the N(100, 15) distribution

The UNIVARIATE Procedure  
Variable: obs

Moments			
<b>N</b>	100	<b>Sum Weights</b>	100
<b>Mean</b>	100.108118	<b>Sum Observations</b>	10010.8118
<b>Std Deviation</b>	15.5344233	<b>Variance</b>	241.318307
<b>Skewness</b>	0.03005384	<b>Kurtosis</b>	-0.2495345
<b>Uncorrected SS</b>	1026054.05	<b>Corrected SS</b>	23890.5124
<b>Coeff Variation</b>	15.5176459	<b>Std Error Mean</b>	1.55344233

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	100.1081	<b>Std Deviation</b>	15.53442
<b>Median</b>	98.9439	<b>Variance</b>	241.31831
<b>Mode</b>	.	<b>Range</b>	71.36168
		<b>Interquartile Range</b>	19.70865

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	64.44276	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	50	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	2525	<b>Pr &gt;=  S </b>	<.0001

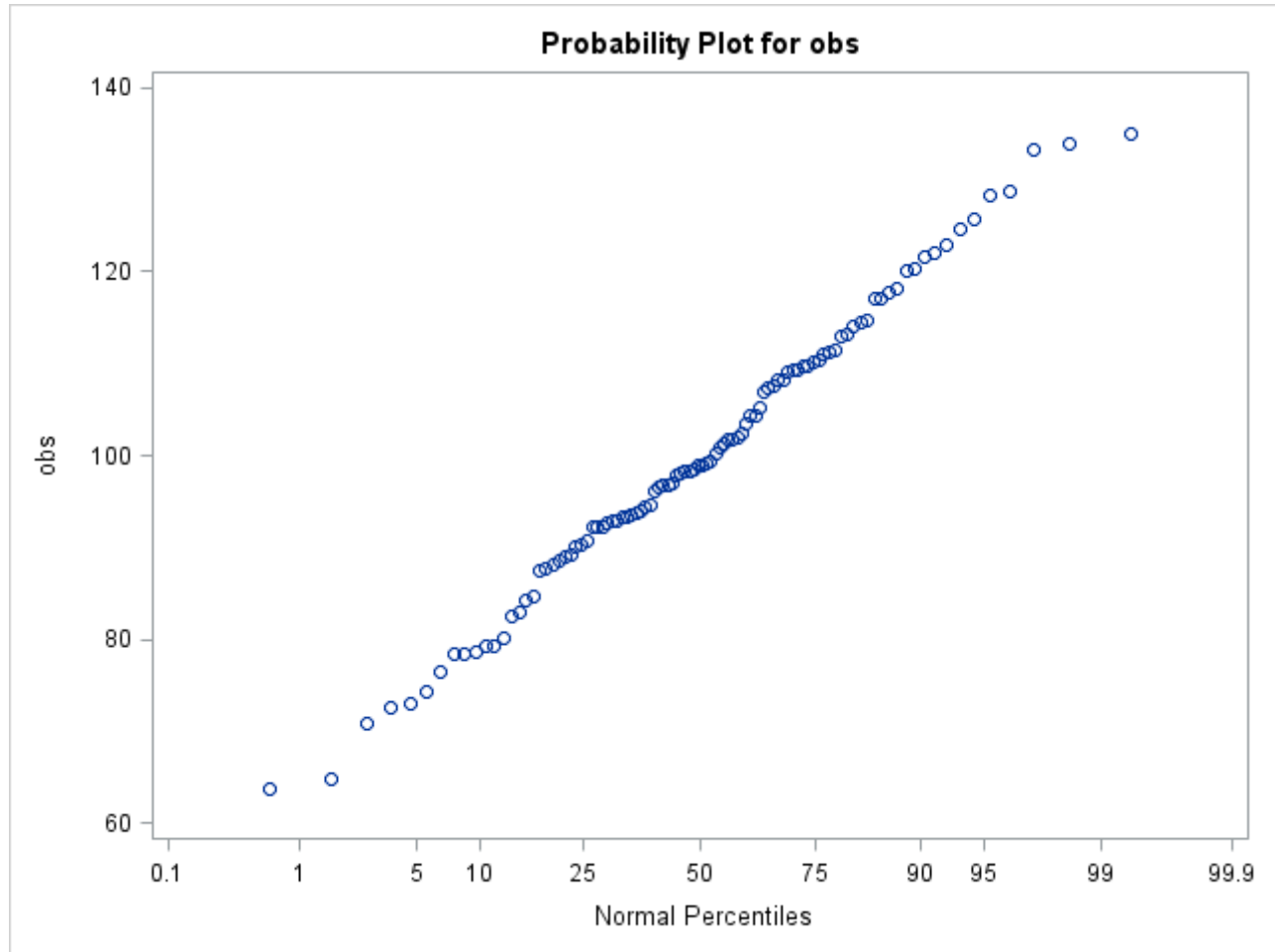
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	134.9936
<b>99%</b>	134.4677
<b>95%</b>	127.0088
<b>90%</b>	120.9610
<b>75% Q3</b>	110.2020
<b>50% Median</b>	98.9439
<b>25% Q1</b>	90.4933
<b>10%</b>	78.9843
<b>5%</b>	73.6624
<b>1%</b>	64.2160
<b>0% Min</b>	63.6319

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
63.6319	51	128.327	21
64.8002	71	128.826	37
70.8777	68	133.392	49
72.5295	77	133.942	27
73.0065	48	134.994	75



**100 Observations Plotted from the N(100, 15) distribution**

The UNIVARIATE Procedure



## 10 Observations Plotted from the LOGNORMAL distribution

The UNIVARIATE Procedure  
Variable: obs

Moments			
<b>N</b>	10	<b>Sum Weights</b>	10
<b>Mean</b>	1.43628036	<b>Sum Observations</b>	14.3628036
<b>Std Deviation</b>	1.23400582	<b>Variance</b>	1.52277036
<b>Skewness</b>	1.71017496	<b>Kurtosis</b>	2.81338971
<b>Uncorrected SS</b>	34.3339461	<b>Corrected SS</b>	13.7049332
<b>Coeff Variation</b>	85.9167783	<b>Std Error Mean</b>	0.3902269

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	1.436280	<b>Std Deviation</b>	1.23401
<b>Median</b>	1.026059	<b>Variance</b>	1.52277
<b>Mode</b>	.	<b>Range</b>	3.89467
		<b>Interquartile Range</b>	1.24396

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	3.680629	<b>Pr &gt;  t </b>	0.0051
<b>Sign</b>	<b>M</b>	5	<b>Pr &gt;=  M </b>	0.0020
<b>Signed Rank</b>	<b>S</b>	27.5	<b>Pr &gt;=  S </b>	0.0020

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	4.336455
<b>99%</b>	4.336455
<b>95%</b>	4.336455
<b>90%</b>	3.506026
<b>75% Q3</b>	1.764860
<b>50% Median</b>	1.026059
<b>25% Q1</b>	0.520904
<b>10%</b>	0.465655
<b>5%</b>	0.441788
<b>1%</b>	0.441788
<b>0% Min</b>	0.441788

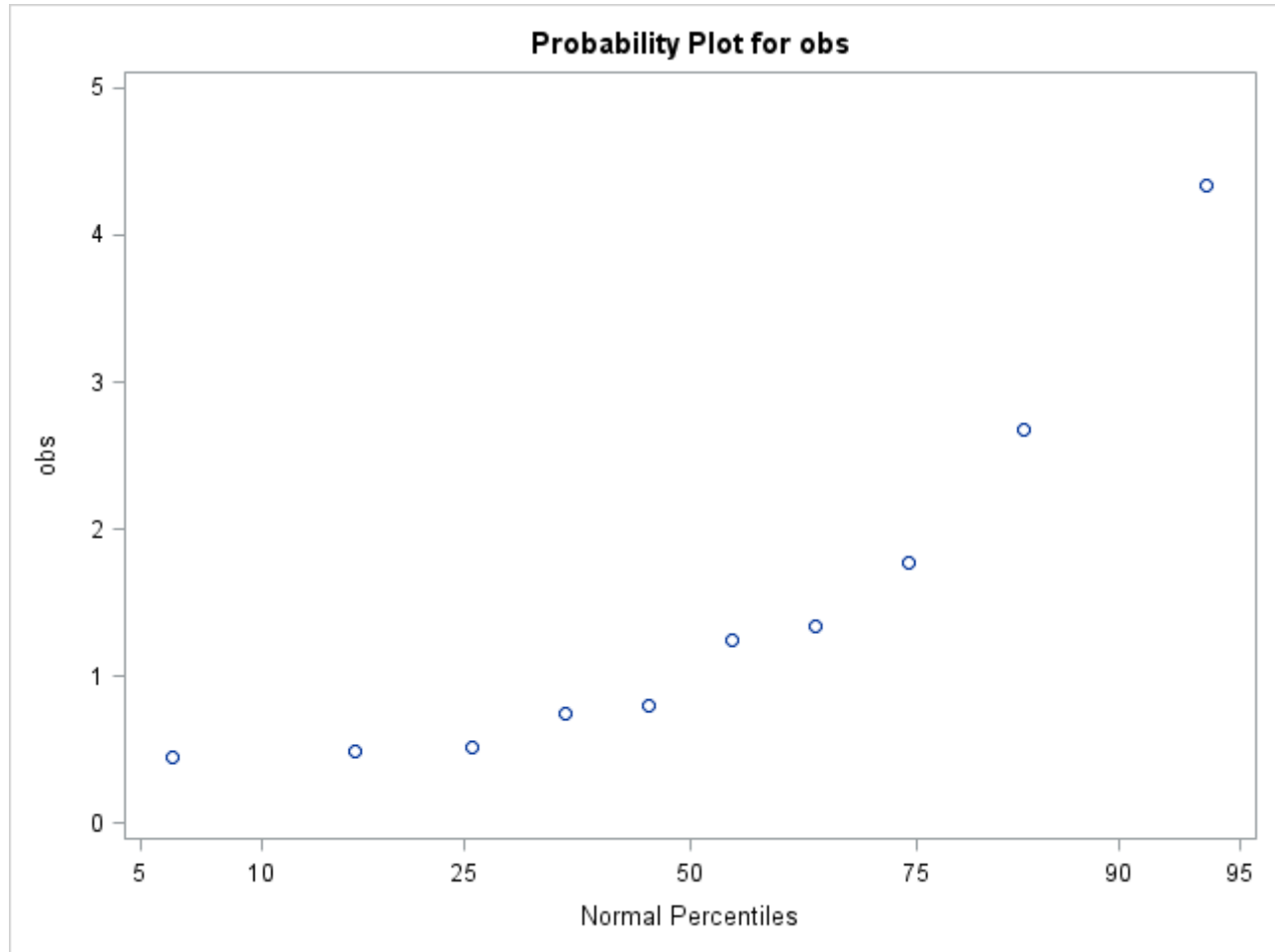
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.441788	9	1.24757	1
0.489521	4	1.34013	5
0.520904	3	1.76486	10
0.741425	8	2.67560	7
0.804545	2	4.33646	6





**10 Observations Plotted from the LOGNORMAL distribution**

The UNIVARIATE Procedure



## 100 Observations Plotted from the LOGNORMAL distribution

The UNIVARIATE Procedure  
Variable: obs

Moments			
<b>N</b>	100	<b>Sum Weights</b>	100
<b>Mean</b>	1.71690756	<b>Sum Observations</b>	171.690756
<b>Std Deviation</b>	2.37255417	<b>Variance</b>	5.62901327
<b>Skewness</b>	3.94355845	<b>Kurtosis</b>	18.2620611
<b>Uncorrected SS</b>	852.04947	<b>Corrected SS</b>	557.272314
<b>Coeff Variation</b>	138.187647	<b>Std Error Mean</b>	0.23725542

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	1.716908	<b>Std Deviation</b>	2.37255
<b>Median</b>	1.000082	<b>Variance</b>	5.62901
<b>Mode</b>	.	<b>Range</b>	15.17714
		<b>Interquartile Range</b>	1.30743

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	7.236537	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	50	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	2525	<b>Pr &gt;=  S </b>	<.0001

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	15.2411533
<b>99%</b>	14.7185632
<b>95%</b>	4.8875474
<b>90%</b>	3.4225544
<b>75% Q3</b>	1.8683393
<b>50% Median</b>	1.0000816
<b>25% Q1</b>	0.5609080
<b>10%</b>	0.2929699
<b>5%</b>	0.1856618
<b>1%</b>	0.0976766
<b>0% Min</b>	0.0640118

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0640118	11	5.56975	76
0.1313414	4	7.00104	66
0.1744007	96	9.70693	40
0.1769021	1	14.19597	98
0.1829789	94	15.24115	67



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