```
EXAMINE VARIABLES=VAR00001 VAR00002
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Pretest	23	100.0%	0	0.0%	23	100.0%
Posttest	23	100.0%	0	0.0%	23	100.0%

Descriptives

			Statistic	Std. Error
Pretest	Mean		76.74	1.221
	95% Confidence Interval for Mean	Lower Bound	74.21	
		Upper Bound	79.27	
	5% Trimmed Mean		76.92	
	Median		79.00	
	Variance		34.292	
	Std. Deviation		5.856	
	Minimum		65	
	Maximum		85	
	Range		20	
	Interquartile Range		6	
	Skewness		-.547	.481
	Kurtosis		-.499	.935
Posttest	Mean		83.09	1.238
	95% Confidence Interval for Mean	Lower Bound	80.52	
		Upper Bound	85.65	
	5% Trimmed Mean		83.38	
	Median		83.00	
	Variance		35.265	
	Std. Deviation		5.938	

Descriptives

		Statistic	Std. Error
	Minimum	70	
	Maximum	91	
	Range	21	
	Interquartile Range	10	
	Skewness	-.806	.481
	Kurtosis	.188	.935

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Pretest	.172	23	.076	.929	23	.102
Posttest	.115	23	.200*	.920	23	.066

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

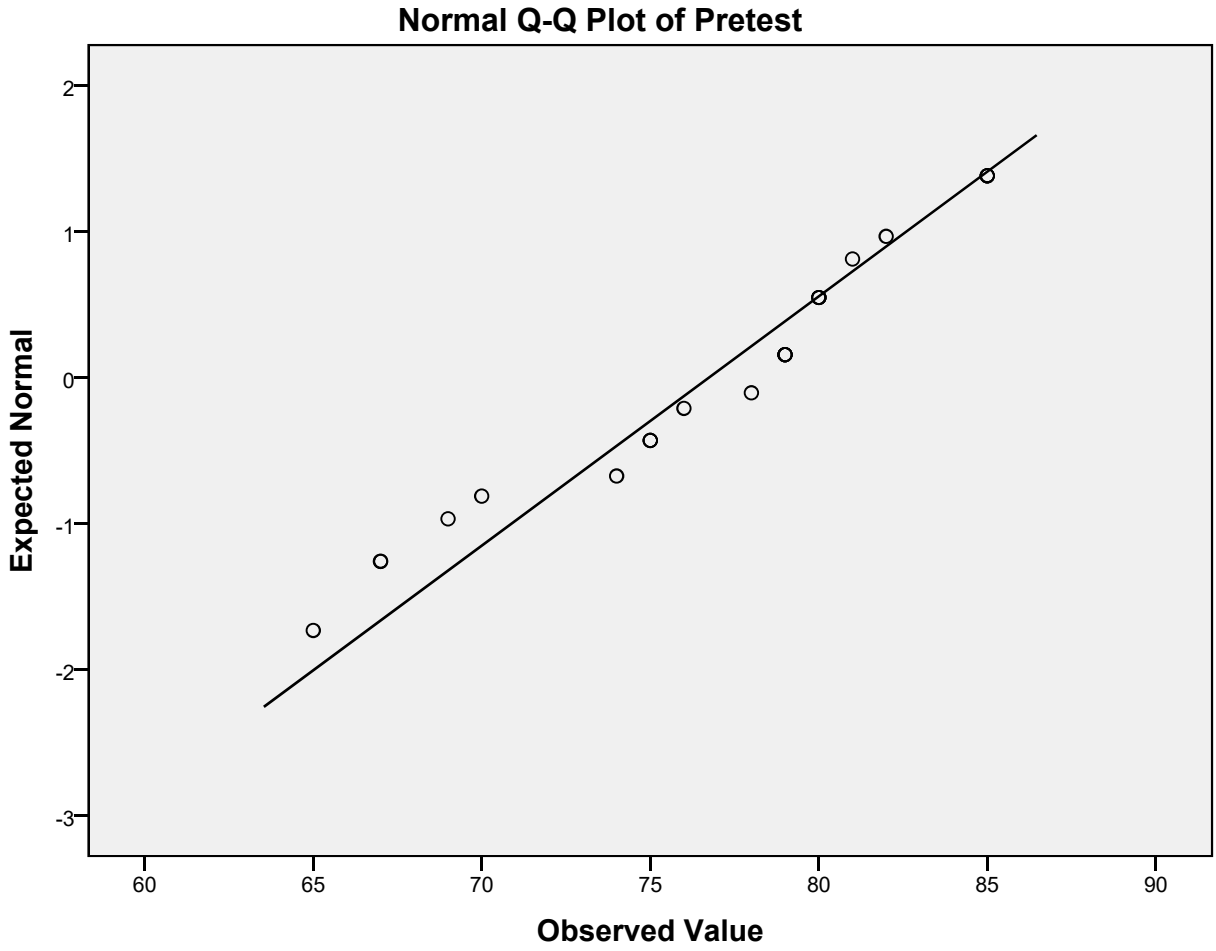
Pretest

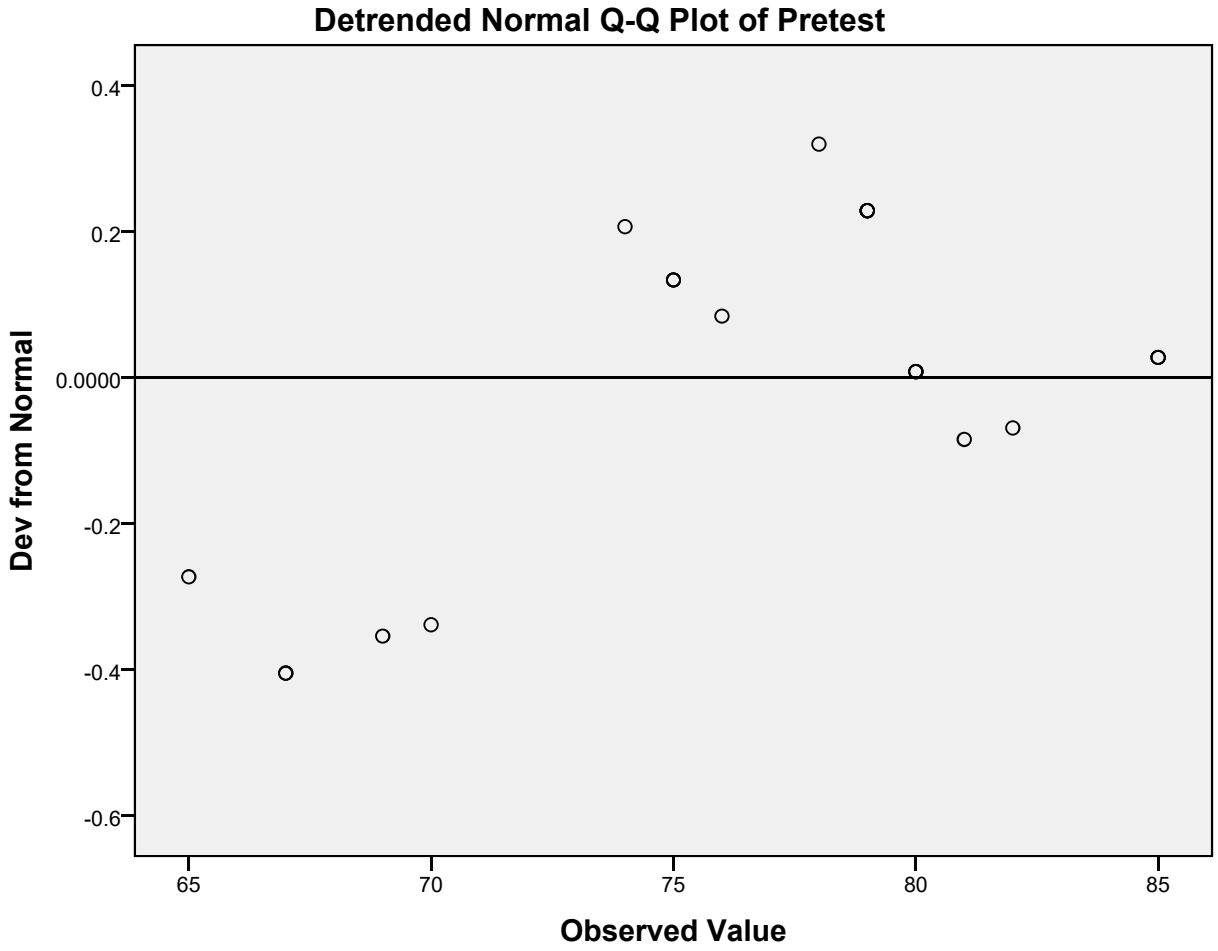
```
Pretest Stem-and-Leaf Plot

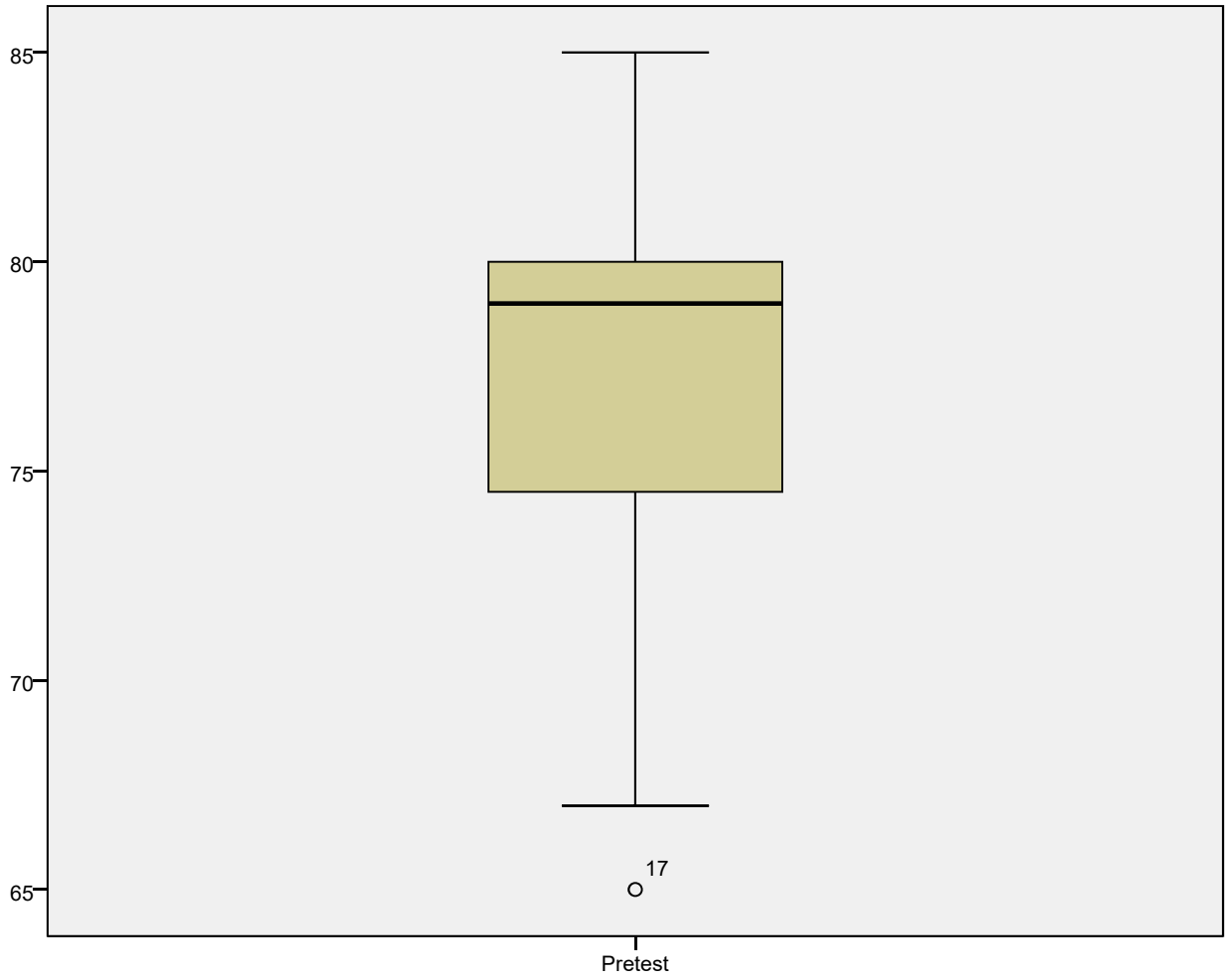
 Frequency    Stem &  Leaf

     1.00 Extremes    (=<65)
     3.00        6 .  779
     2.00        7 .  04
     9.00        7 .  555689999
     5.00        8 .  00012
     3.00        8 .  555

 Stem width:        10
 Each leaf:       1 case(s)
```


Normal Q-Q Plot of Pretest
Expected Normal
2
1
0
-1
-2
-3
60
65
70
75
80
85
90
Observed Value


Detrended Normal Q-Q Plot of Pretest
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
-0.6
65
70
75
80
85
Observed Value

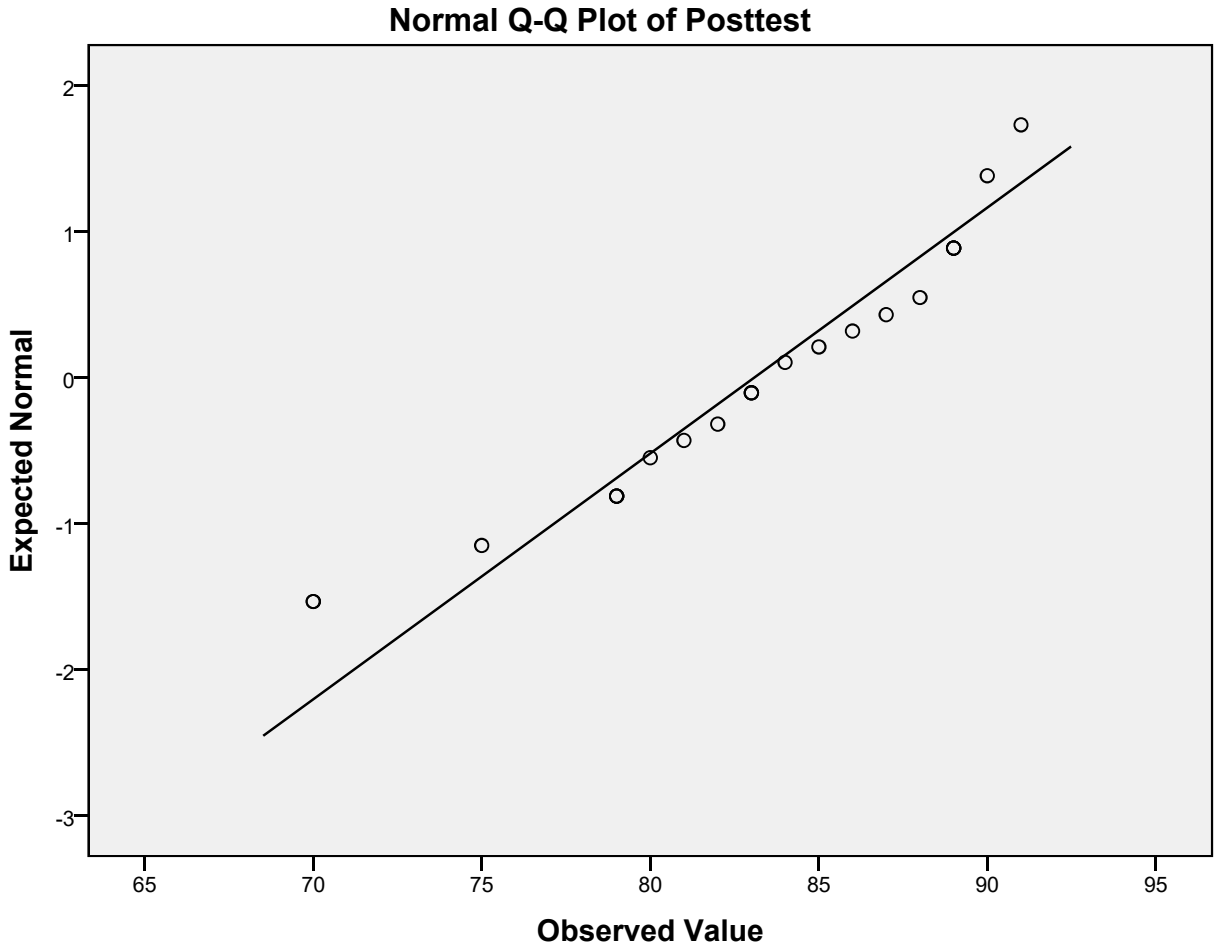


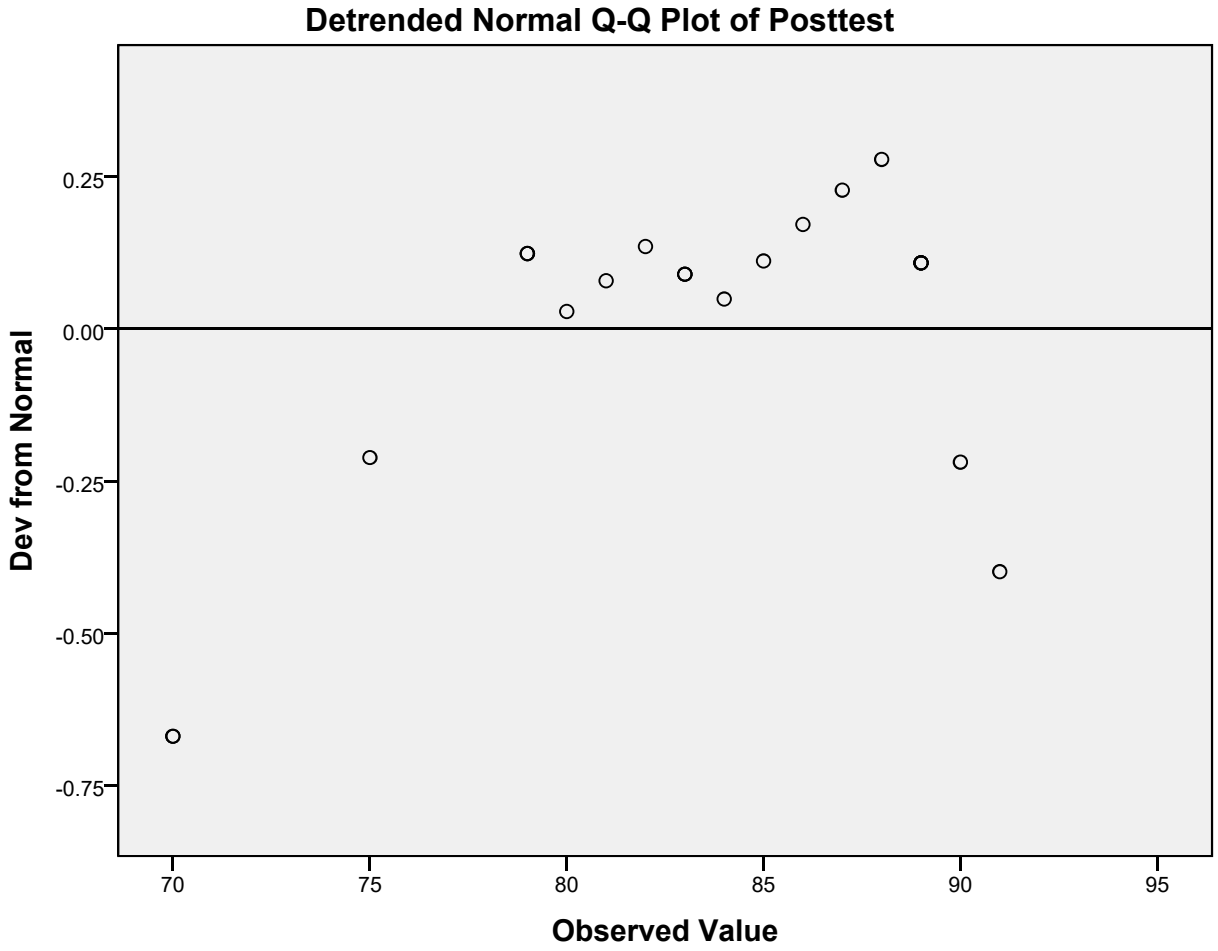
Posttest

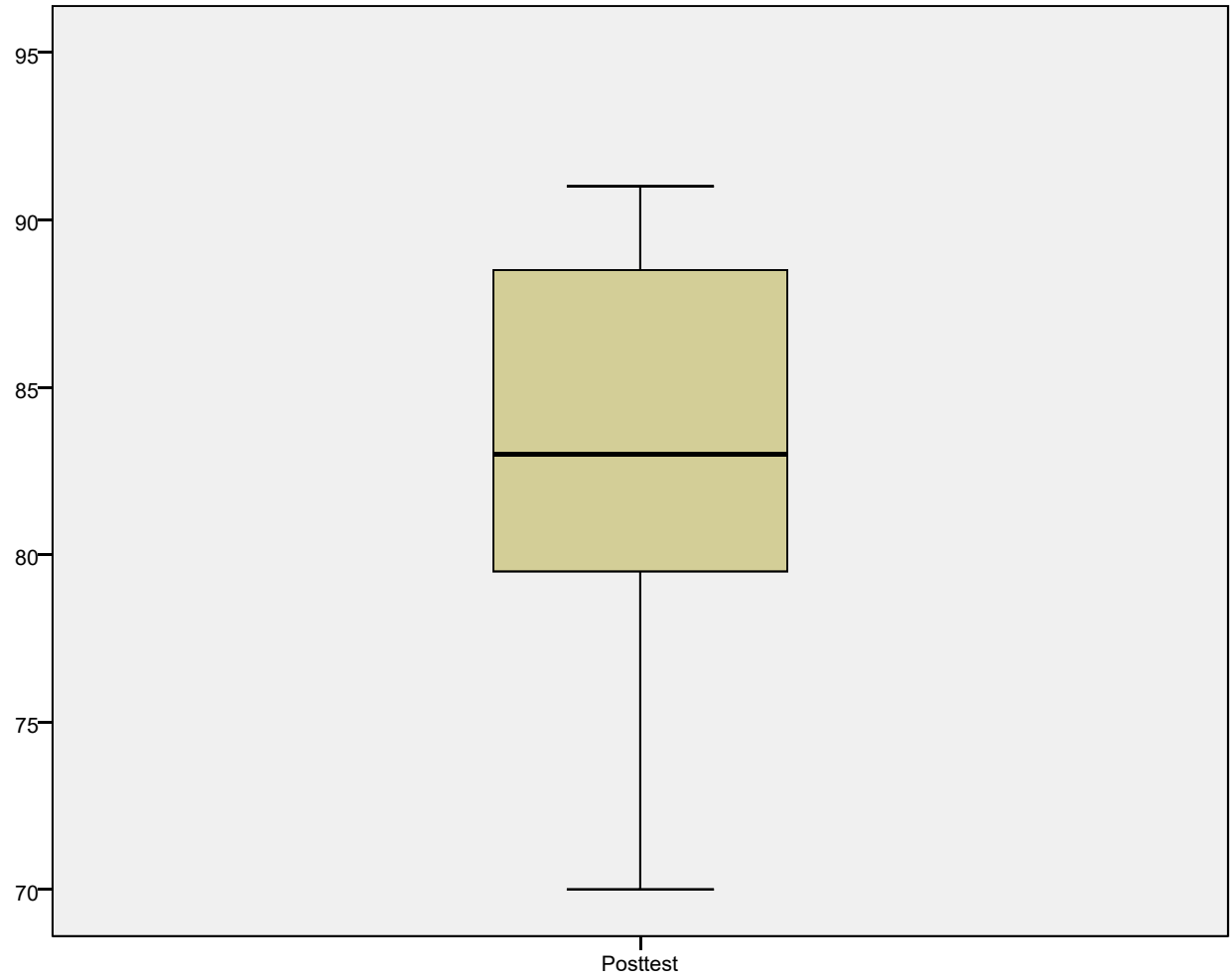
Posttest Stem-and-Leaf Plot

Frequency	Stem &	Leaf
2.00	7 .	00
4.00	7 .	5999
7.00	8 .	0123334
8.00	8 .	56789999
2.00	9 .	01

Stem width: 10
Each leaf: 1 case(s)


Normal Q-Q Plot of Posttest
Expected Normal
2
1
0
-1
-2
-3
65
70
75
80
85
90
95
Observed Value


Detrended Normal Q-Q Plot of Posttest
Dev from Normal
0.25
0.00
-0.25
-0.50
-0.75
70
75
80
85
90
95
Observed Value




```
T-TEST PAIRS=VAR00001 WITH VAR00002 (PAIRED)
  /CRITERIA=CI(.9500)
  /MISSING=ANALYSIS.
```

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Pretest	76.74	23	5.856	1.221
	Posttest	83.09	23	5.938	1.238

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Pretest & Posttest	23	.670	.000

Paired Samples Test

		Paired Differences				
					95% Confidence Interval of the Difference	
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper
Pair 1	Pretest - Posttest	-6.348	4.792	.999	-8.420	-4.276

Paired Samples Test

		t	df	Sig. (2-tailed)
Pair 1	Pretest - Posttest	-6.353	22	.000

```
ONEWAY VAR00001 BY VAR00002
  /STATISTICS HOMOGENEITY
  /MISSING ANALYSIS.
```

Oneway

Test of Homogeneity of Variances

Nilai

Levene Statistic	df1	df2	Sig.
.013	1	44	.909

ANOVA

Nilai

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	463.391	1	463.391	13.324	.001
Within Groups	1530.261	44	34.779		
Total	1993.652	45			