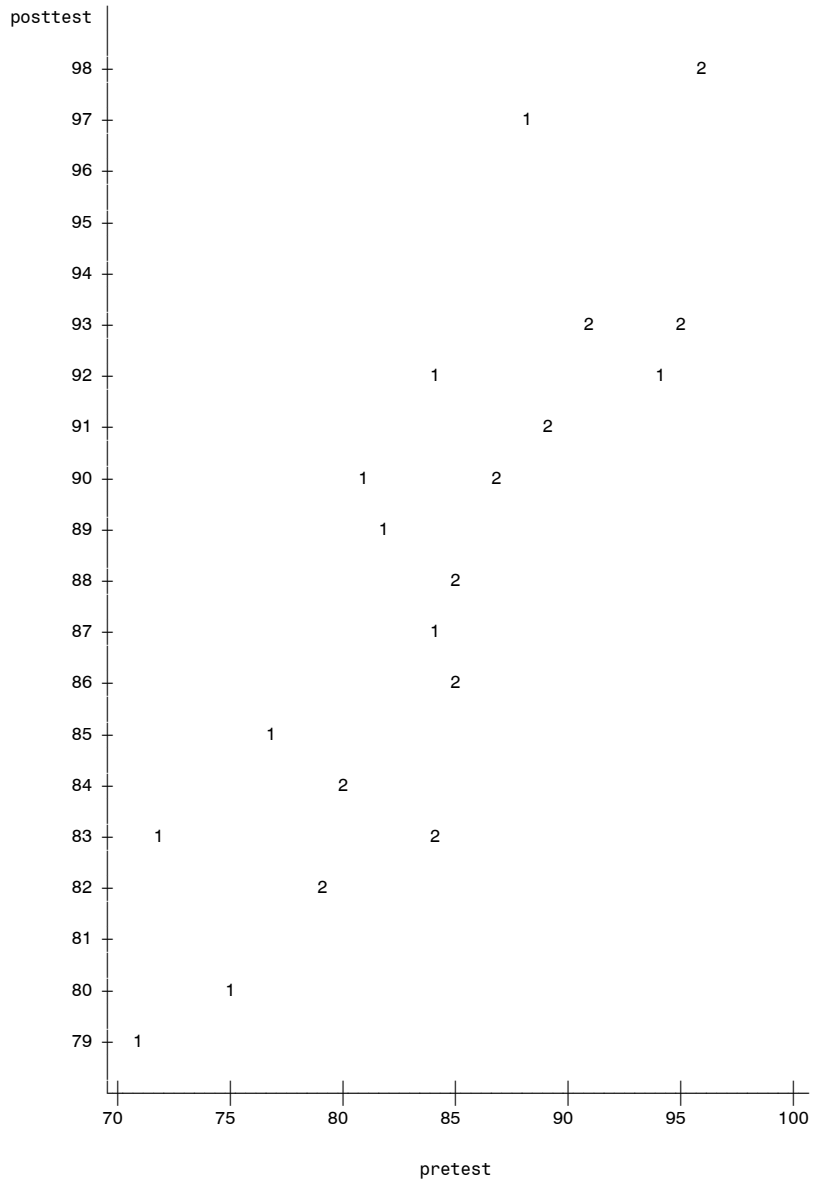
Obs	group	pretest	posttest	group2	g2pre
1	1	72	83	0	0
2	1	77	85	0	0
3	1	81	90	0	0
4	1	84	92	0	0
5	1	88	97	0	0
6	1	94	92	0	0
7	1	71	79	0	0
8	1	75	80	0	0
9	1	82	89	0	0
10	1	84	87	0	0
11	2	91	93	1	91
12	2	85	88	1	85
13	2	89	91	1	89
14	2	95	93	1	95
15	2	80	84	1	80
16	2	96	98	1	96
17	2	79	82	1	79
18	2	87	90	1	87
19	2	84	83	1	84
20	2	85	86	1	85

Plot of posttest*pretest. Symbol is value of group.



The REG Procedure
Model: MODEL1
Dependent Variable: posttest

Number of Observations Read	20
Number of Observations Used	20

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	9.80000	9.80000	0.33	0.5719
Error	18	532.00000	29.55556		
Corrected Total	19	541.80000			

Root MSE	5.43650	**R-Square**	0.0181
Dependent Mean	88.10000	**Adj R-Sq**	-0.0365
Coeff Var	6.17083		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	87.40000	1.71917	50.84	<.0001
group2	1	1.40000	2.43128	0.58	0.5719

The REG Procedure
Model: MODEL2
Dependent Variable: posttest

Number of Observations Read	20
Number of Observations Used	20

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	390.35423	390.35423	46.40	<.0001
Error	18	151.44577	8.41365		
Corrected Total	19	541.80000			

Root MSE	2.90063	**R-Square**	0.7205
Dependent Mean	88.10000	**Adj R-Sq**	0.7049
Coeff Var	3.29243		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	34.64993	7.87389	4.40	0.0003
pretest	1	0.63669	0.09347	6.81	<.0001

The REG Procedure
Model: MODEL3
Dependent Variable: posttest

Number of Observations Read	20
Number of Observations Used	20

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	2	433.29379	216.64689	33.94	<.0001
Error	17	108.50621	6.38272		
Corrected Total	19	541.80000			

Root MSE	2.52640	**R-Square**	0.7997
Dependent Mean	88.10000	**Adj R-Sq**	0.7762
Coeff Var	2.86766		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	27.26239	7.42597	3.67	0.0019
pretest	1	0.74428	0.09137	8.15	<.0001
group2	1	-3.28895	1.26803	-2.59	0.0189

The REG Procedure
Model: MODEL4
Dependent Variable: posttest

Number of Observations Read	20
Number of Observations Used	20

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	3	438.50104	146.16701	22.64	<.0001
Error	16	103.29896	6.45619		
Corrected Total	19	541.80000			

Root MSE	2.54090	**R-Square**	0.8093
Dependent Mean	88.10000	**Adj R-Sq**	0.7736
Coeff Var	2.88411		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	32.54685	9.50805	3.42	0.0035
pretest	1	0.67888	0.11725	5.79	<.0001
group2	1	-17.64451	16.03547	-1.10	0.2875
g2pre	1	0.16955	0.18879	0.90	0.3825

The MEANS Procedure

group	N Obs	Variable	N	Mean	Std Dev	Minimum	Maximum
1	10	pretest	10	80.8000000	7.2234187	71.0000000	94.0000000
		posttest	10	87.4000000	5.7193628	79.0000000	97.0000000
2	10	pretest	10	87.1000000	5.7242176	79.0000000	96.0000000
		posttest	10	88.8000000	5.1380930	82.0000000	98.0000000

The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
pretest	20	83.9500000	7.1190996	71.0000000	96.0000000
posttest	20	88.1000000	5.3400177	79.0000000	98.0000000

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
group	2	1 2

Number of Observations Read	20
Number of Observations Used	20

The GLM Procedure

Dependent Variable: posttest

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9.8000000	9.8000000	0.33	0.5719
Error	18	532.0000000	29.5555556		
Corrected Total	19	541.8000000			

R-Square	Coeff Var	Root MSE	posttest Mean
0.018088	6.170831	5.436502	88.10000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	1	9.80000000	9.80000000	0.33	0.5719

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	1	9.80000000	9.80000000	0.33	0.5719

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
group	2	1 2

Number of Observations Read	20
Number of Observations Used	20

The GLM Procedure

Dependent Variable: posttest

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	438.5010369	146.1670123	22.64	<.0001
Error	16	103.2989631	6.4561852		
Corrected Total	19	541.8000000			

R-Square	Coeff Var	Root MSE	posttest Mean
0.809341	2.884112	2.540902	88.10000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	1	9.8000000	9.8000000	1.52	0.2357
pretest	1	423.4937868	423.4937868	65.60	<.0001
pretest*group	1	5.2072501	5.2072501	0.81	0.3825

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	1	7.8168452	7.8168452	1.21	0.2875
pretest	1	422.5454319	422.5454319	65.45	<.0001
pretest*group	1	5.2072501	5.2072501	0.81	0.3825

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
group	2	1 2

Number of Observations Read	20
Number of Observations Used	20

The GLM Procedure

Dependent Variable: posttest

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	433.2937868	216.6468934	33.94	<.0001
Error	17	108.5062132	6.3827184		
Corrected Total	19	541.8000000			

R-Square	Coeff Var	Root MSE	posttest Mean
0.799730	2.867655	2.526404	88.10000

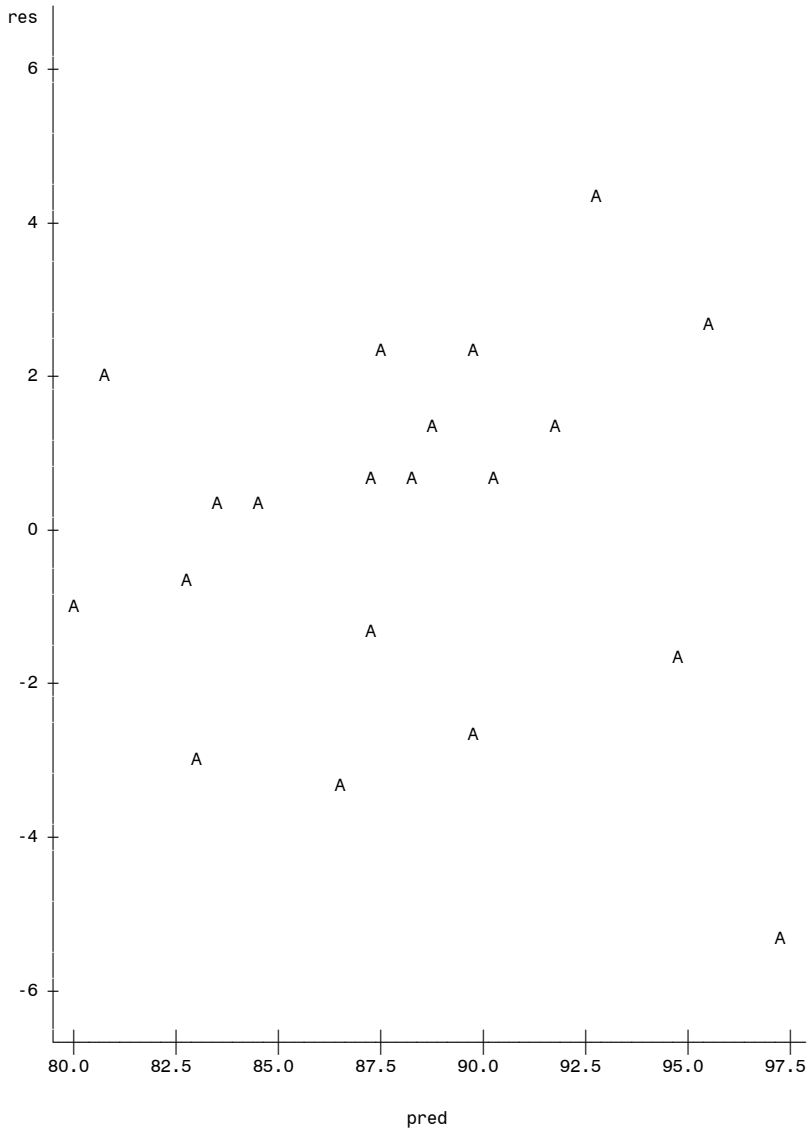
Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	1	9.8000000	9.8000000	1.54	0.2321
pretest	1	423.4937868	423.4937868	66.35	<.0001

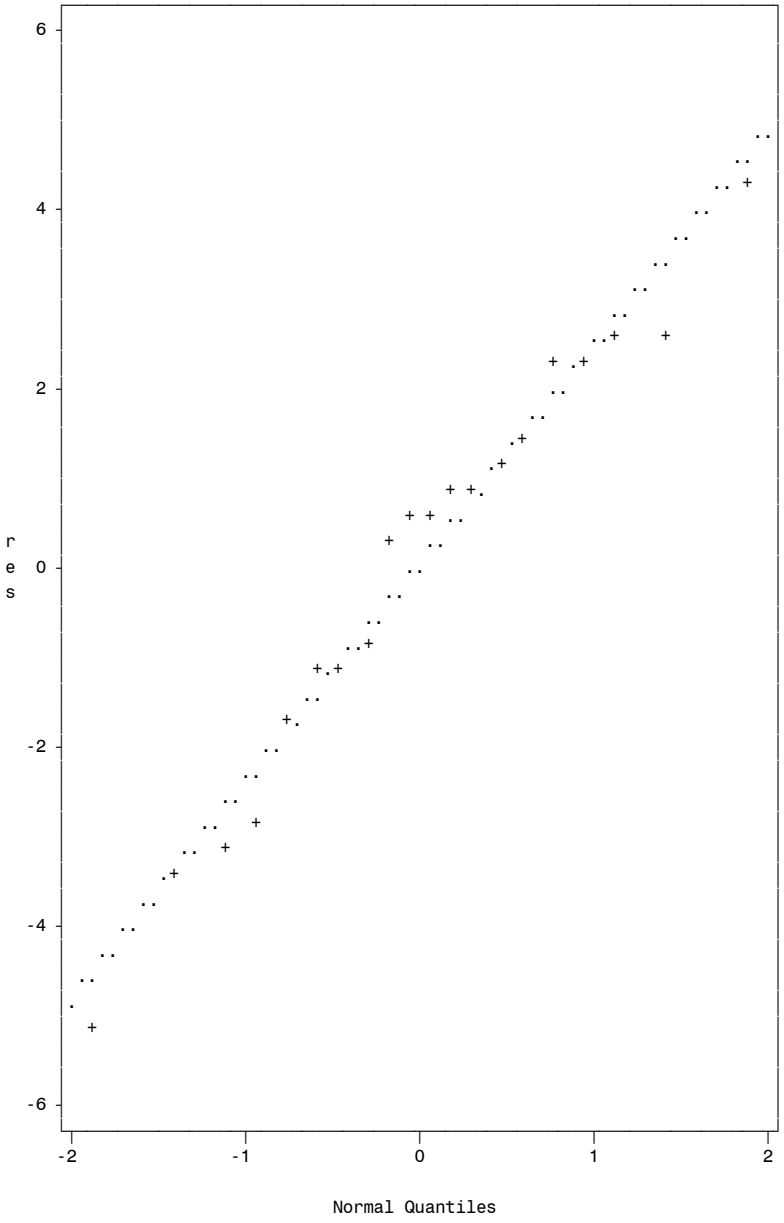
Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	1	42.9395524	42.9395524	6.73	0.0189
pretest	1	423.4937868	423.4937868	66.35	<.0001

The GLM Procedure
Least Squares Means

group	posttest LSMEAN
1	89.7444735
2	86.4555265

Plot of res*pred. Legend: A = 1 obs, B = 2 obs, etc.





Normal Line: ... Mu=0, Sigma=2.3897