

Obs	a	b	n	a1	a2	b1	b2	b3	ab11	ab12	ab13	ab21	ab22	ab23	mergevar	i	y
1	1	1	3	1	0	1	0	0	1	0	0	0	0	0	y	1	1
2	1	1	3	1	0	1	0	0	1	0	0	0	0	0	y	2	2
3	1	1	3	1	0	1	0	0	1	0	0	0	0	0	y	3	3
4	1	2	3	1	0	0	1	0	0	1	0	0	0	0	y	1	4
5	1	2	3	1	0	0	1	0	0	1	0	0	0	0	y	2	5
6	1	2	3	1	0	0	1	0	0	1	0	0	0	0	y	3	6
7	1	3	3	1	0	0	0	1	0	0	1	0	0	0	y	1	7
8	1	3	3	1	0	0	0	1	0	0	1	0	0	0	y	2	8
9	1	3	3	1	0	0	0	1	0	0	1	0	0	0	y	3	9
10	2	1	3	0	1	1	0	0	0	0	0	1	0	0	y	1	10
11	2	1	3	0	1	1	0	0	0	0	0	1	0	0	y	2	11
12	2	1	3	0	1	1	0	0	0	0	0	1	0	0	y	3	12
13	2	2	3	0	1	0	1	0	0	0	0	0	1	0	y	1	13
14	2	2	3	0	1	0	1	0	0	0	0	0	1	0	y	2	14
15	2	2	3	0	1	0	1	0	0	0	0	0	1	0	y	3	15
16	2	3	3	0	1	0	0	1	0	0	0	0	0	1	y	1	20
17	2	3	3	0	1	0	0	1	0	0	0	0	0	1	y	2	21
18	2	3	3	0	1	0	0	1	0	0	0	0	0	1	y	3	22

The REG Procedure
Model: MODEL1
Dependent Variable: y

Number of Observations Read	18
Number of Observations Used	18

Note: No intercept in model. R-Square is redefined.

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	2553.00000	425.50000	425.50	<.0001
Error	12	12.00000	1.00000		
Uncorrected Total	18	2565.00000			

Root MSE	1.00000	R-Square	0.9953
Dependent Mean	10.16667	Adj R-Sq	0.9930
Coeff Var	9.83607		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
ab11	1	2.00000	0.57735	3.46	0.0047
ab12	1	5.00000	0.57735	8.66	<.0001
ab13	1	8.00000	0.57735	13.86	<.0001
ab21	1	11.00000	0.57735	19.05	<.0001
ab22	1	14.00000	0.57735	24.25	<.0001
ab23	1	21.00000	0.57735	36.37	<.0001

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	ab11	ab12	ab13	ab21	ab22	ab23	y
1	MODEL1	PARMS	y	1	2	5	8	11	14	21	-1

Obs	a	b	y	alignA	alignB	alignAB
1	1	1	1	-6.16667	-4.66667	-0.33333
2	1	1	2	-5.16667	-3.66667	0.66667
3	1	1	3	-4.16667	-2.66667	1.66667
4	1	2	4	-6.16667	-1.66667	-0.33333
5	1	2	5	-5.16667	-0.66667	0.66667
6	1	2	6	-4.16667	0.33333	1.66667
7	1	3	7	-6.16667	3.33333	-2.33333
8	1	3	8	-5.16667	4.33333	-1.33333
9	1	3	9	-4.16667	5.33333	-0.33333
10	2	1	10	4.16667	-4.66667	-1.66667
11	2	1	11	5.16667	-3.66667	-0.66667
12	2	1	12	6.16667	-2.66667	0.33333
13	2	2	13	4.16667	-1.66667	-1.66667
14	2	2	14	5.16667	-0.66667	-0.66667
15	2	2	15	6.16667	0.33333	0.33333
16	2	3	20	4.16667	3.33333	0.33333
17	2	3	21	5.16667	4.33333	1.33333
18	2	3	22	6.16667	5.33333	2.33333

The GLM Procedure

Class Level Information		
Class	Levels	Values
a	2	1 2
b	3	1 2 3

Number of Observations Read	18
Number of Observations Used	18

The GLM Procedure

Dependent Variable: rkalignA Rank for Variable alignA

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	364.5000000	72.9000000	8.10	0.0015
Error	12	108.0000000	9.0000000		
Corrected Total	17	472.5000000			

R-Square	Coeff Var	Root MSE	rkalignA Mean
0.771429	31.57895	3.000000	9.500000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
a	1	364.5000000	364.5000000	40.50	<.0001
b	2	0.0000000	0.0000000	0.00	1.0000
a*b	2	0.0000000	0.0000000	0.00	1.0000

Source	DF	Type III SS	Mean Square	F Value	Pr > F
a	1	364.5000000	364.5000000	40.50	<.0001
b	2	0.0000000	0.0000000	0.00	1.0000
a*b	2	0.0000000	0.0000000	0.00	1.0000

The GLM Procedure

Dependent Variable: rkalgnB Rank for Variable alignB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	432.0000000	86.4000000	21.60	<.0001
Error	12	48.0000000	4.0000000		
Corrected Total	17	480.0000000			

R-Square	Coeff Var	Root MSE	rkalgnB Mean
0.900000	21.05263	2.000000	9.500000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
a	1	0.0000000	0.0000000	0.00	1.0000
b	2	432.0000000	216.0000000	54.00	<.0001
a*b	2	0.0000000	0.0000000	0.00	1.0000

Source	DF	Type III SS	Mean Square	F Value	Pr > F
a	1	0.0000000	0.0000000	0.00	1.0000
b	2	432.0000000	216.0000000	54.00	<.0001
a*b	2	0.0000000	0.0000000	0.00	1.0000

The GLM Procedure

Dependent Variable: rkaligAB Rank for Variable alignAB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	280.5000000	56.1000000	3.40	0.0382
Error	12	198.0000000	16.5000000		
Corrected Total	17	478.5000000			

R-Square	Coeff Var	Root MSE	rkaligAB Mean
0.586207	42.75810	4.062019	9.500000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
a	1	2.7222222	2.7222222	0.16	0.6918
b	2	0.0000000	0.0000000	0.00	1.0000
a*b	2	277.7777778	138.8888889	8.42	0.0052

Source	DF	Type III SS	Mean Square	F Value	Pr > F
a	1	2.7222222	2.7222222	0.16	0.6918
b	2	0.0000000	0.0000000	0.00	1.0000
a*b	2	277.7777778	138.8888889	8.42	0.0052