The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
group	3	1 2 3

Number of Observations Read	150
Number of Observations Used	150

The GLM Procedure

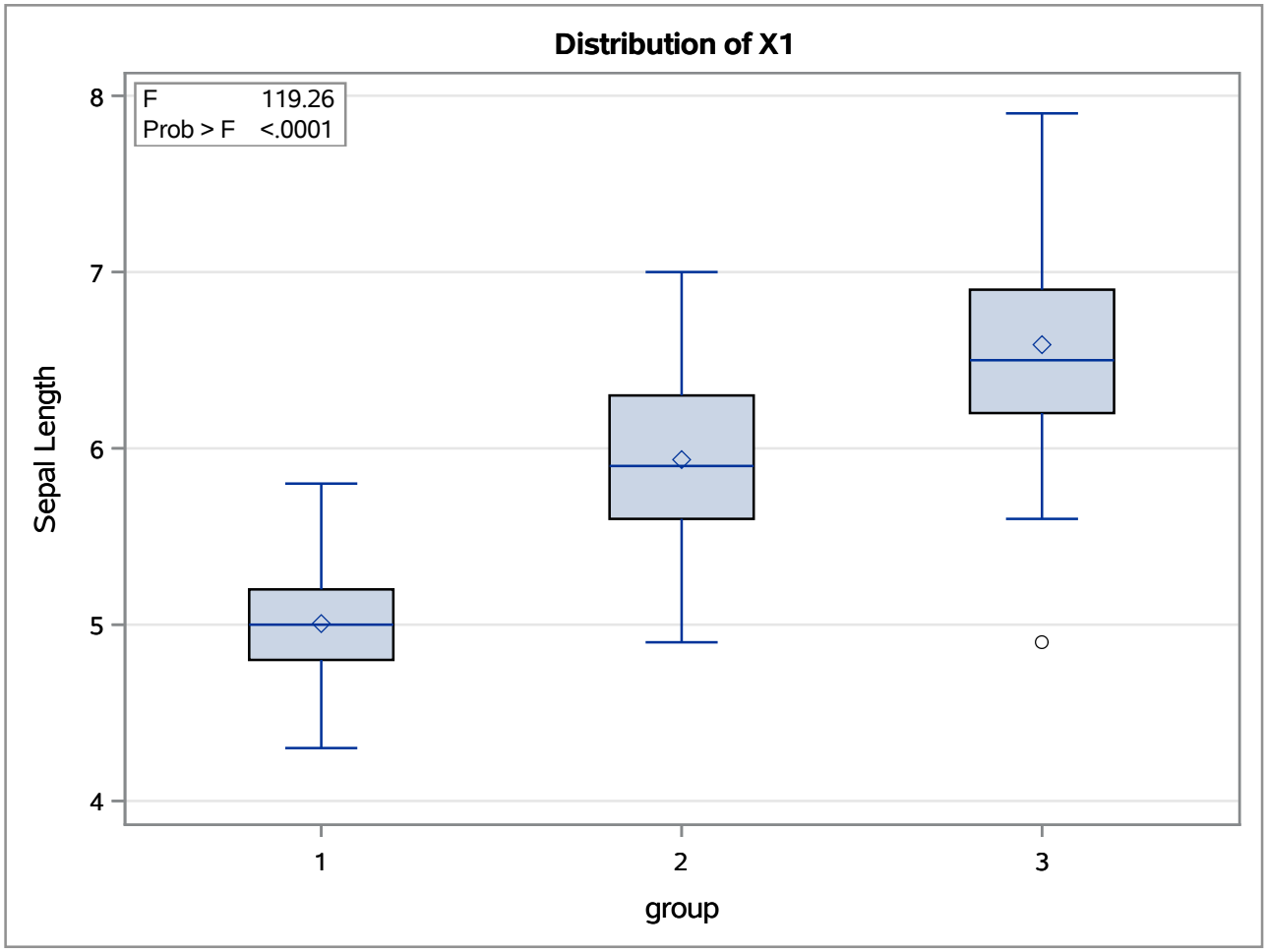
Dependent Variable: X1 Sepal Length

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	63.2121333	31.6060667	119.26	<.0001
Error	147	38.9562000	0.2650082		
Corrected Total	149	102.1683333			

R-Square	Coeff Var	Root MSE	X1 Mean
0.618706	8.809859	0.514789	5.843333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	63.21213333	31.60606667	119.26	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	63.21213333	31.60606667	119.26	<.0001



The GLM Procedure

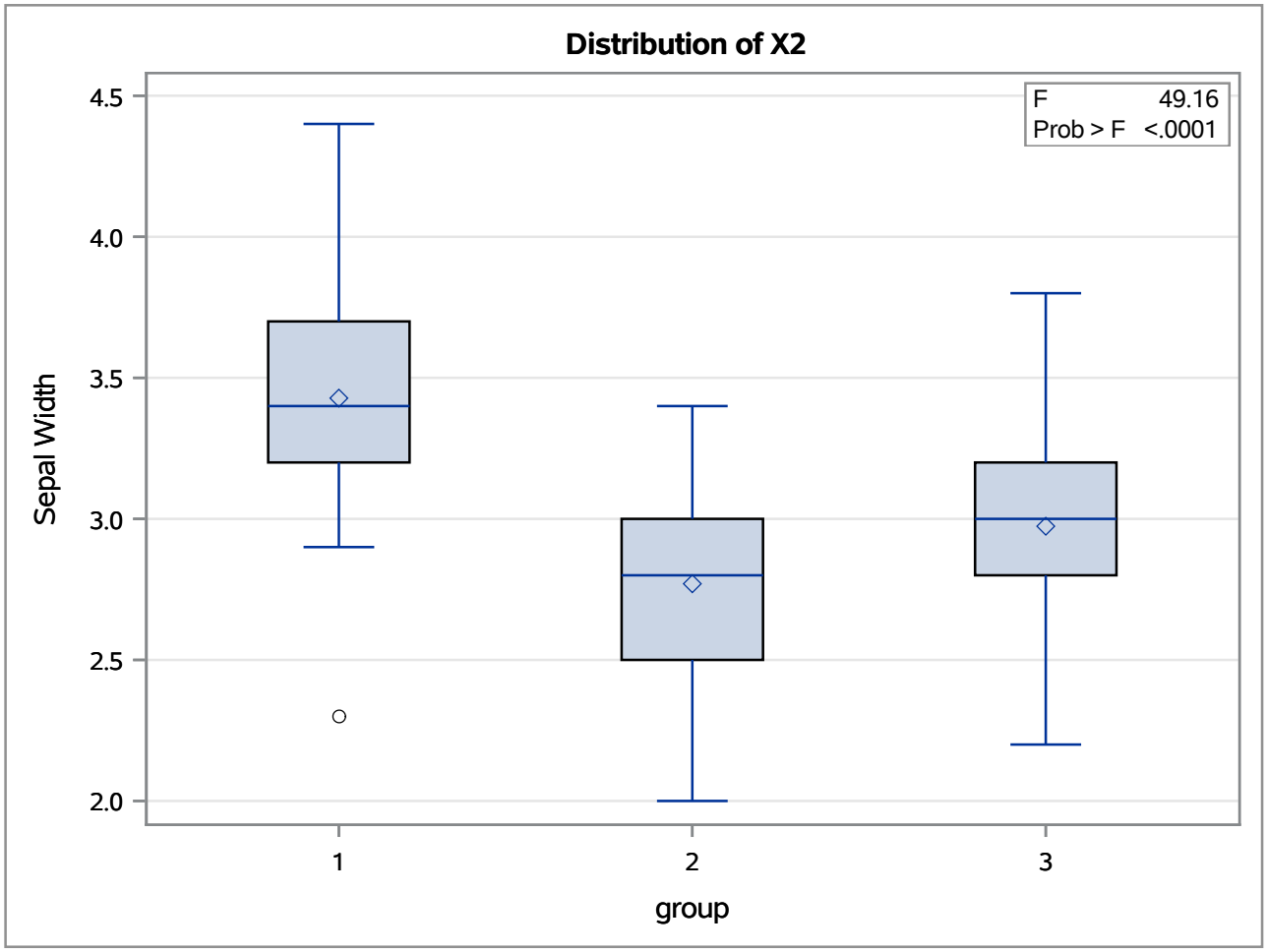
Dependent Variable: X2 Sepal Width

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	11.34493333	5.67246667	49.16	<.0001
Error	147	16.96200000	0.11538776		
Corrected Total	149	28.30693333			

R-Square	Coeff Var	Root MSE	X2 Mean
0.400783	11.11059	0.339688	3.057333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	11.34493333	5.67246667	49.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	11.34493333	5.67246667	49.16	<.0001



The GLM Procedure

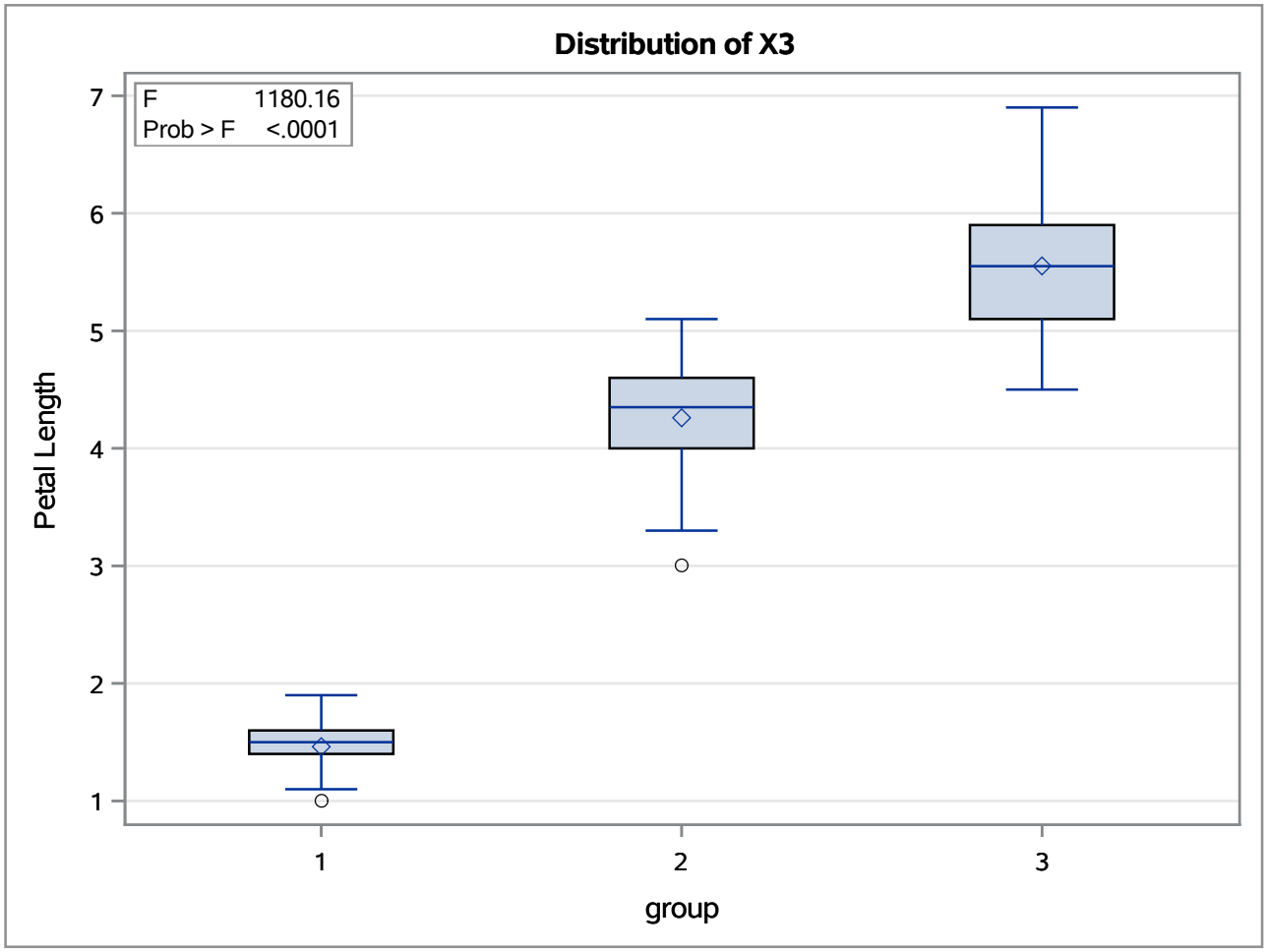
Dependent Variable: X3 Petal Length

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	437.1028000	218.5514000	1180.16	<.0001
Error	147	27.2226000	0.1851878		
Corrected Total	149	464.3254000			

R-Square	Coeff Var	Root MSE	X3 Mean
0.941372	11.45116	0.430334	3.758000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	437.1028000	218.5514000	1180.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	437.1028000	218.5514000	1180.16	<.0001



The GLM Procedure

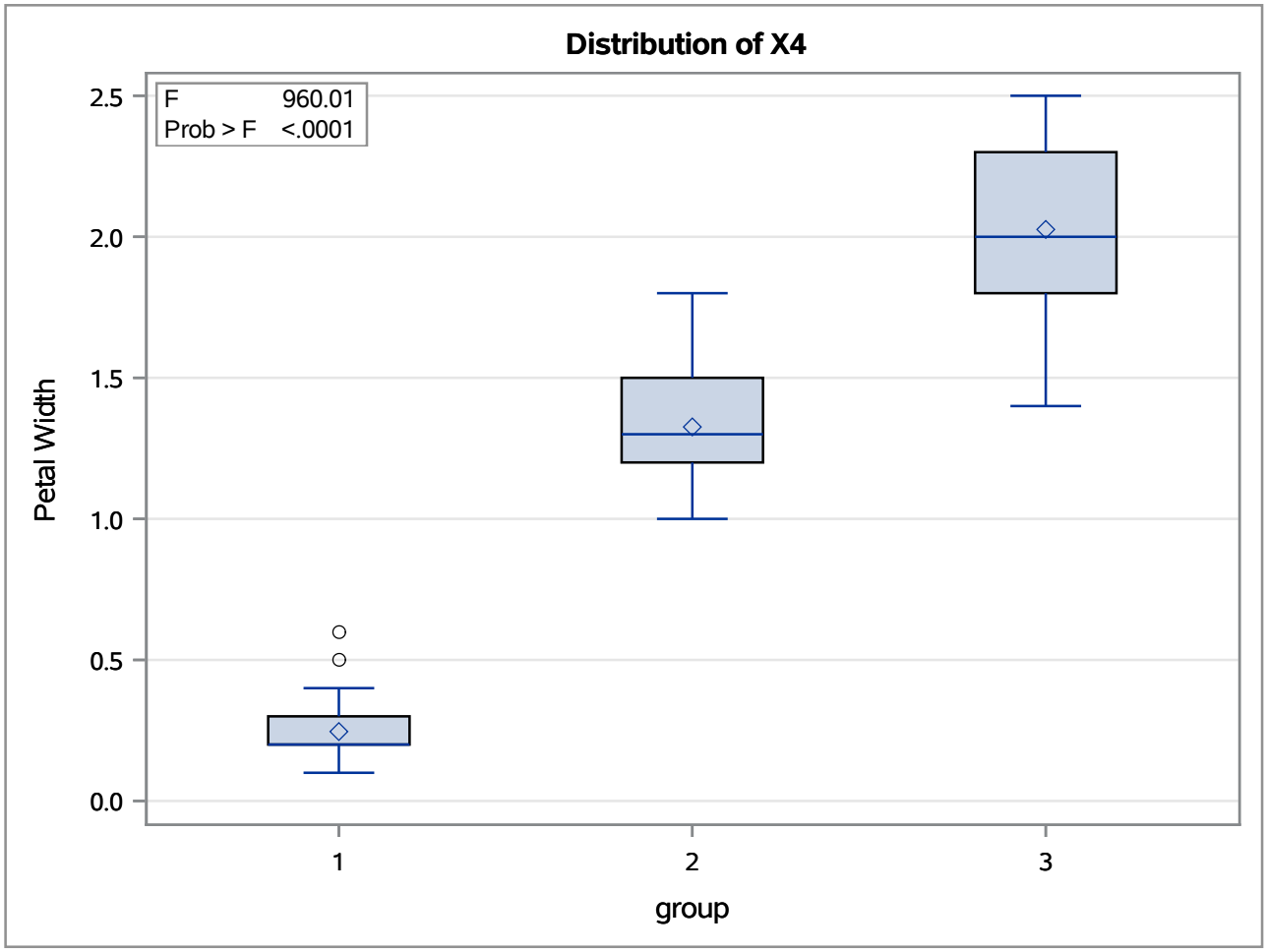
Dependent Variable: X4 Petal Width

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	80.41333333	40.20666667	960.01	<.0001
Error	147	6.15660000	0.04188163		
Corrected Total	149	86.56993333			

R-Square	Coeff Var	Root MSE	X4 Mean
0.928883	17.06365	0.204650	1.199333

Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	80.41333333	40.20666667	960.01	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	80.41333333	40.20666667	960.01	<.0001



The GLM Procedure
Multivariate Analysis of Variance

E = Error SSCP Matrix				
	X1	X2	X3	X4
X1	38.9562	13.63	24.6246	5.645
X2	13.63	16.962	8.1208	4.8084
X3	24.6246	8.1208	27.2226	6.2718
X4	5.645	4.8084	6.2718	6.1566

Partial Correlation Coefficients from the Error SSCP Matrix / Prob > |r|				
DF = 147	**X1**	**X2**	**X3**	**X4**
X1	1.000000	0.530236 <.0001	0.756164 <.0001	0.364506 <.0001
X2	0.530236 <.0001	1.000000	0.377916 <.0001	0.470535 <.0001
X3	0.756164 <.0001	0.377916 <.0001	1.000000	0.484459 <.0001
X4	0.364506 <.0001	0.470535 <.0001	0.484459 <.0001	1.000000

The GLM Procedure
Multivariate Analysis of Variance

H = Type III SSCP Matrix for group				
	X1	X2	X3	X4
X1	63.212133333	-19.95266667	165.2484	71.279333333
X2	-19.95266667	11.344933333	-57.2396	-22.93266667
X3	165.2484	-57.2396	437.1028	186.774
X4	71.279333333	-22.93266667	186.774	80.413333333

Characteristic Roots and Vectors of: E Inverse * H, where H = Type III SSCP Matrix for group E = Error SSCP Matrix					
Characteristic Root	Percent	Characteristic Vector V'EV=1			
		X1	X2	X3	X4
32.1919292	99.12	-0.06840592	-0.12656121	0.18155288	0.23180286
0.2853910	0.88	0.00198791	0.17852670	-0.07686357	0.23417227
0.0000000	0.00	0.10268742	-0.19415509	-0.22502879	0.37627520
0.0000000	0.00	-0.24194505	0.10603485	0.10535376	0.00000000

MANOVA Tests for the Hypothesis of No Overall group Effect H = Type III SSCP Matrix for group E = Error SSCP Matrix S=2 M=0.5 N=71		
Statistic	Value	P-Value
Wilks' Lambda	0.02343863	<.0001
Pillai's Trace	1.19189883	<.0001
Hotelling-Lawley Trace	32.47732024	<.0001
Roy's Greatest Root	32.19192920	<.0001

The CANDISC Procedure

Total Sample Size	150	**DF Total**	149
Variables	4	**DF Within Classes**	147
Classes	3	**DF Between Classes**	2

Number of Observations Read	150
Number of Observations Used	150

Class Level Information

group	Variable Name	Frequency	Weight	Proportion
1	_1	50	50.0000	0.333333
2	_2	50	50.0000	0.333333
3	_3	50	50.0000	0.333333

The CANDISC Procedure

Multivariate Statistics		
S=2 M=0.5 N=71		
Statistic	**Value**	**P-Value**
Wilks' Lambda	0.02343863	<.0001
Pillai's Trace	1.19189883	<.0001
Hotelling-Lawley Trace	32.47732024	<.0001
Roy's Greatest Root	32.19192920	<.0001

The CANDISC Procedure

	Canonical Correlation	Adjusted Canonical Correlation	Approximate Standard Error	Squared Canonical Correlation	Eigenvalues of Inv(E)*H = CanRsq/(1-CanRsq)			
					Eigenvalue	Difference	Proportion	Cumulative
1	0.984821	0.984508	0.002468	0.969872	32.1919	31.9065	0.9912	0.9912
2	0.471197	0.461445	0.063734	0.222027	0.2854		0.0088	1.0000

	Test of H0: The canonical correlations in the current row and all that follow are zero				
	Likelihood Ratio	Approximate F Value	Num DF	Den DF	Pr > F
1	0.02343863	199.15	8	288	<.0001
2	0.77797337	13.79	3	145	<.0001

The CANDISC Procedure

Total Canonical Structure			
Variable	**Label**	**Can1**	**Can2**
X1	Sepal Length	0.791888	0.217593
X2	Sepal Width	-0.530759	0.757989
X3	Petal Length	0.984951	0.046037
X4	Petal Width	0.972812	0.222902

Between Canonical Structure			
Variable	**Label**	**Can1**	**Can2**
X1	Sepal Length	0.991468	0.130348
X2	Sepal Width	-0.825658	0.564171
X3	Petal Length	0.999750	0.022358
X4	Petal Width	0.994044	0.108977

Pooled Within Canonical Structure			
Variable	**Label**	**Can1**	**Can2**
X1	Sepal Length	0.222596	0.310812
X2	Sepal Width	-0.119012	0.863681
X3	Petal Length	0.706065	0.167701
X4	Petal Width	0.633178	0.737242

The CANDISC Procedure

Total-Sample Standardized Canonical Coefficients			
Variable	**Label**	**Can1**	**Can2**
X1	Sepal Length	-0.686779533	0.019958173
X2	Sepal Width	-0.668825075	0.943441829
X3	Petal Length	3.885795047	-1.645118866
X4	Petal Width	2.142238715	2.164135931

Pooled Within-Class Standardized Canonical Coefficients			
Variable	**Label**	**Can1**	**Can2**
X1	Sepal Length	-.4269548486	0.0124075316
X2	Sepal Width	-.5212416758	0.7352613085
X3	Petal Length	0.9472572487	-.4010378190
X4	Petal Width	0.5751607719	0.5810398645

Raw Canonical Coefficients			
Variable	**Label**	**Can1**	**Can2**
X1	Sepal Length	-0.829377642	0.024102149
X2	Sepal Width	-1.534473068	2.164521235
X3	Petal Length	2.201211656	-0.931921210
X4	Petal Width	2.810460309	2.839187853

Class Means on Canonical Variables		
group	**Can1**	**Can2**
1	-7.607599927	0.215133017
2	1.825049490	-0.727899622
3	5.782550437	0.512766605

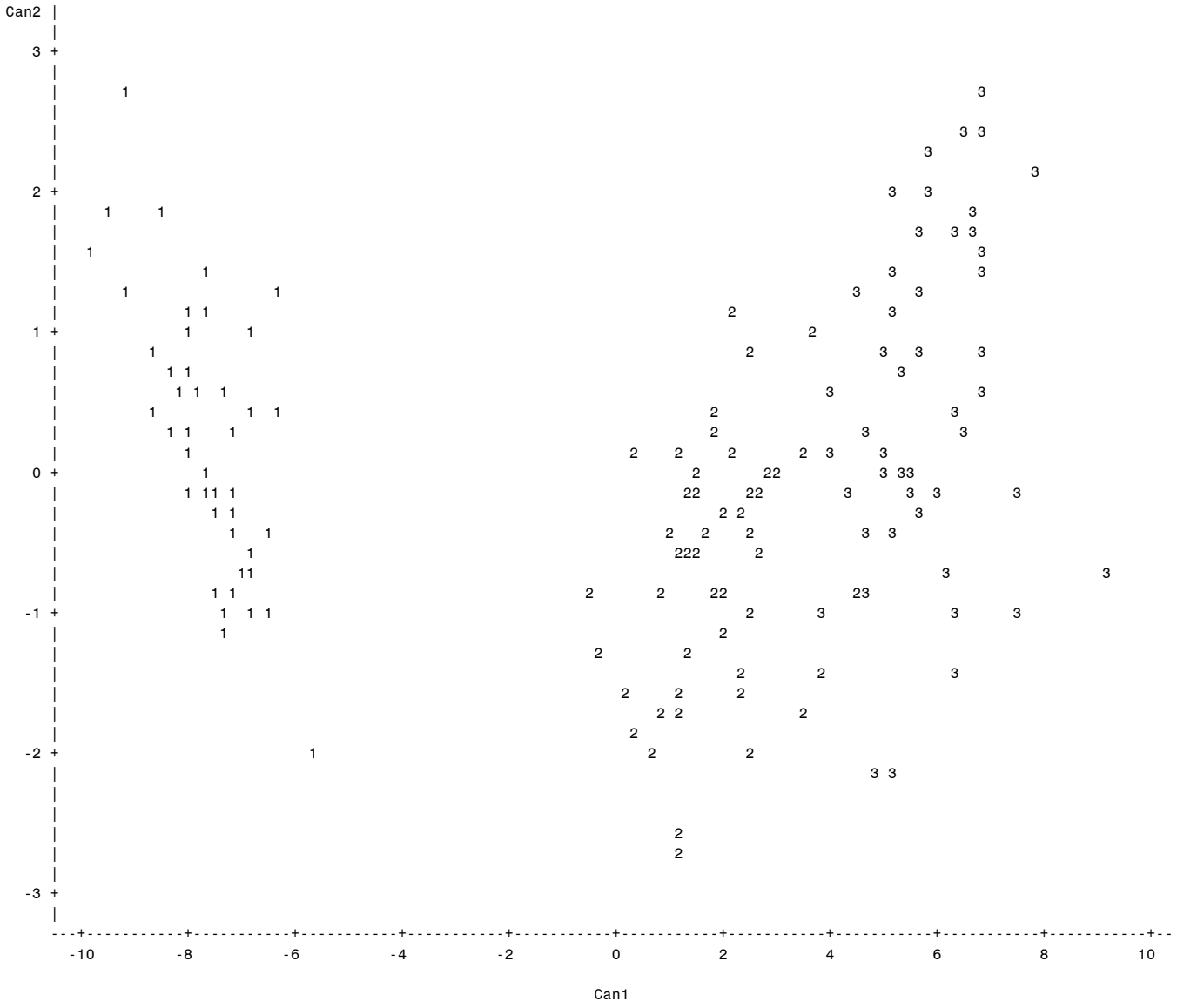
Obs	X1	X2	X3	X4	group	Can1	Can2	Can3	Can4
1	5.1	3.5	1.4	0.2	1	-8.06180	0.30042	.	.
2	4.9	3.0	1.4	0.2	1	-7.12869	-0.78666	.	.
3	4.7	3.2	1.3	0.2	1	-7.48983	-0.26538	.	.
4	4.6	3.1	1.5	0.2	1	-6.81320	-0.67063	.	.
5	5.0	3.6	1.4	0.2	1	-8.13231	0.51446	.	.
6	5.4	3.9	1.7	0.4	1	-7.70195	1.46172	.	.
7	4.6	3.4	1.4	0.3	1	-7.21262	0.35584	.	.
8	5.0	3.4	1.5	0.2	1	-7.60529	-0.01163	.	.
9	4.4	2.9	1.4	0.2	1	-6.56055	-1.01516	.	.
10	4.9	3.1	1.5	0.1	1	-7.34306	-0.94732	.	.
11	5.4	3.7	1.5	0.2	1	-8.39739	0.64736	.	.
12	4.8	3.4	1.6	0.2	1	-7.21930	-0.10965	.	.
13	4.8	3.0	1.4	0.1	1	-7.32680	-1.07299	.	.
14	4.3	3.0	1.1	0.1	1	-7.57247	-0.80546	.	.
15	5.8	4.0	1.2	0.2	1	-9.84984	1.58594	.	.
16	5.7	4.4	1.5	0.4	1	-9.15824	2.73760	.	.
17	5.4	3.9	1.3	0.4	1	-8.58243	1.83449	.	.
18	5.1	3.5	1.4	0.3	1	-7.78075	0.58434	.	.
19	5.7	3.8	1.7	0.3	1	-8.07836	0.96858	.	.
20	5.1	3.8	1.5	0.3	1	-8.02097	1.14050	.	.
21	5.4	3.4	1.7	0.2	1	-7.49680	-0.18838	.	.
22	5.1	3.7	1.5	0.4	1	-7.58648	1.20797	.	.
23	4.6	3.6	1.0	0.2	1	-8.68104	0.87759	.	.
24	5.1	3.3	1.7	0.5	1	-6.25140	0.43970	.	.
25	4.8	3.4	1.9	0.2	1	-6.55893	-0.38922	.	.
26	5.0	3.0	1.6	0.2	1	-6.77138	-0.97063	.	.
27	5.0	3.4	1.6	0.4	1	-6.82308	0.46301	.	.
28	5.2	3.5	1.5	0.2	1	-7.92462	0.20964	.	.
29	5.2	3.4	1.4	0.2	1	-7.99129	0.08638	.	.
30	4.7	3.2	1.6	0.2	1	-6.82946	-0.54496	.	.
31	4.8	3.1	1.6	0.2	1	-6.75895	-0.75900	.	.
32	5.4	3.4	1.5	0.4	1	-7.37495	0.56584	.	.
33	5.2	4.1	1.5	0.1	1	-9.12635	1.22443	.	.
34	5.5	4.2	1.4	0.2	1	-9.46768	1.82523	.	.
35	4.9	3.1	1.5	0.2	1	-7.06201	-0.66340	.	.
36	5.0	3.2	1.2	0.2	1	-7.95876	-0.16496	.	.
37	5.5	3.5	1.3	0.2	1	-8.61367	0.40325	.	.
38	4.9	3.6	1.4	0.1	1	-8.33042	0.22813	.	.

Obs	X1	X2	X3	X4	group	Can1	Can2	Can3	Can4
39	4.4	3.0	1.3	0.2	1	-6.93412	-0.70552	.	.
40	5.1	3.4	1.5	0.2	1	-7.68823	-0.00922	.	.
41	5.0	3.5	1.3	0.3	1	-7.91794	0.67512	.	.
42	4.5	2.3	1.3	0.3	1	-5.66188	-1.93436	.	.
43	4.4	3.2	1.3	0.2	1	-7.24101	-0.27262	.	.
44	5.0	3.5	1.6	0.6	1	-6.41444	1.24730	.	.
45	5.1	3.8	1.9	0.4	1	-6.85944	1.05165	.	.
46	4.8	3.0	1.4	0.3	1	-6.76470	-0.50515	.	.
47	5.1	3.8	1.6	0.2	1	-8.08190	0.76339	.	.
48	4.6	3.2	1.4	0.2	1	-7.18677	-0.36099	.	.
49	5.3	3.7	1.5	0.2	1	-8.31445	0.64495	.	.
50	5.0	3.3	1.4	0.2	1	-7.67197	-0.13489	.	.
51	7.0	3.2	4.7	1.4	2	1.45928	0.02854	.	.
52	6.4	3.2	4.5	1.5	2	1.79771	0.48439	.	.
53	6.9	3.1	4.9	1.5	2	2.41695	-0.09278	.	.
54	5.5	2.3	4.0	1.3	2	2.26247	-1.58725	.	.
55	6.5	2.8	4.6	1.5	2	2.54868	-0.47220	.	.
56	5.7	2.8	4.5	1.3	2	2.42997	-0.96613	.	.
57	6.3	3.3	4.7	1.6	2	2.44848	0.79596	.	.
58	4.9	2.4	3.3	1.0	2	0.22267	-1.58467	.	.
59	6.6	2.9	4.6	1.3	2	1.75020	-0.82118	.	.
60	5.2	2.7	3.9	1.4	2	1.95842	-0.35156	.	.
61	5.0	2.0	3.5	1.0	2	1.19376	-2.63446	.	.
62	5.9	3.0	4.2	1.5	2	1.85893	0.31901	.	.
63	6.0	2.2	4.0	1.0	2	1.15809	-2.64341	.	.
64	6.1	2.9	4.7	1.4	2	2.66606	-0.64250	.	.
65	5.6	2.9	3.6	1.3	2	0.37837	0.08664	.	.
66	6.7	3.1	4.4	1.4	2	1.20117	0.08444	.	.
67	5.6	3.0	4.5	1.5	2	2.76810	0.03220	.	.
68	5.8	2.7	4.1	1.0	2	0.77685	-1.65916	.	.
69	6.2	2.2	4.5	1.5	2	3.49805	-1.68496	.	.
70	5.6	2.5	3.9	1.1	2	1.09043	-1.62658	.	.
71	5.9	3.2	4.8	1.8	2	3.71590	1.04451	.	.
72	6.1	2.8	4.0	1.3	2	0.99761	-0.49053	.	.
73	6.3	2.5	4.9	1.5	2	3.83526	-1.40596	.	.
74	6.1	2.8	4.7	1.2	2	2.25741	-1.42679	.	.
75	6.4	2.9	4.3	1.3	2	1.25571	-0.54642	.	.
76	6.6	3.0	4.4	1.4	2	1.43756	-0.13442	.	.

Obs	X1	X2	X3	X4	group	Can1	Can2	Can3	Can4
77	6.8	2.8	4.8	1.4	2	2.45906	-0.93528	.	.
78	6.7	3.0	5.0	1.7	2	3.51848	0.16059	.	.
79	6.0	2.9	4.5	1.5	2	2.58980	-0.17461	.	.
80	5.7	2.6	3.5	1.0	2	-0.30749	-1.31887	.	.
81	5.5	2.4	3.8	1.1	2	1.10669	-1.75225	.	.
82	5.5	2.4	3.7	1.0	2	0.60552	-1.94298	.	.
83	5.8	2.7	3.9	1.2	2	0.89870	-0.90494	.	.
84	6.0	2.7	5.1	1.6	2	4.49847	-0.88275	.	.
85	5.4	3.0	4.5	1.5	2	2.93398	0.02738	.	.
86	6.0	3.4	4.5	1.6	2	2.10361	1.19157	.	.
87	6.7	3.1	4.7	1.5	2	2.14258	0.08878	.	.
88	6.3	2.3	4.4	1.3	2	2.47946	-1.94074	.	.
89	5.6	3.0	4.1	1.3	2	1.32553	-0.16287	.	.
90	5.5	2.5	4.0	1.3	2	1.95558	-1.15435	.	.
91	5.5	2.6	4.4	1.2	2	2.40157	-1.59458	.	.
92	6.1	3.0	4.6	1.4	2	2.29249	-0.33286	.	.
93	5.8	2.6	4.0	1.2	2	1.27227	-1.21458	.	.
94	5.0	2.3	3.3	1.0	2	0.29318	-1.79872	.	.
95	5.6	2.7	4.2	1.3	2	2.00599	-0.90542	.	.
96	5.7	3.0	4.2	1.2	2	1.18166	-0.53757	.	.
97	5.7	2.9	4.2	1.3	2	1.61616	-0.47010	.	.
98	6.2	2.9	4.3	1.3	2	1.42159	-0.55124	.	.
99	5.1	2.5	3.0	1.1	2	-0.47597	-0.79991	.	.
100	5.7	2.8	4.1	1.3	2	1.54948	-0.59336	.	.
101	6.3	3.3	6.0	2.5	3	7.83947	2.13973	.	.
102	5.8	2.7	5.1	1.9	3	5.50748	-0.03581	.	.
103	7.1	3.0	5.9	2.1	3	6.29201	0.46718	.	.
104	6.3	2.9	5.6	1.8	3	5.60546	-0.34074	.	.
105	6.5	3.0	5.8	2.2	3	6.85056	0.82983	.	.
106	7.6	3.0	6.6	2.1	3	7.41817	-0.17312	.	.
107	4.9	2.5	4.5	1.7	3	4.67800	-0.49910	.	.
108	7.3	2.9	6.3	1.8	3	6.31693	-0.96898	.	.
109	6.7	2.5	5.8	1.8	3	6.32774	-1.38329	.	.
110	7.2	3.6	6.1	2.5	3	6.85281	2.71759	.	.
111	6.5	3.2	5.1	2.0	3	4.44073	1.34724	.	.
112	6.4	2.7	5.3	1.9	3	5.45010	-0.20774	.	.
113	6.8	3.0	5.5	2.1	3	5.66034	0.83271	.	.
114	5.7	2.5	5.0	2.0	3	5.95824	-0.09402	.	.

Obs	X1	X2	X3	X4	group	Can1	Can2	Can3	Can4
115	5.8	2.8	5.1	2.4	3	6.75926	1.60023	.	.
116	6.4	3.2	5.3	2.3	3	5.80704	2.01020	.	.
117	6.5	3.0	5.5	1.8	3	5.06601	-0.02627	.	.
118	7.7	3.8	6.7	2.2	3	6.60882	1.75164	.	.
119	7.7	2.6	6.9	2.3	3	9.17147	-0.74826	.	.
120	6.0	2.2	5.0	1.5	3	4.76454	-2.15574	.	.
121	6.9	3.2	5.7	2.3	3	6.27284	1.64948	.	.
122	5.6	2.8	4.9	2.0	3	5.36071	0.64612	.	.
123	7.7	2.8	6.7	2.0	3	7.58120	-0.98072	.	.
124	6.3	2.7	4.9	1.8	3	4.37150	-0.12130	.	.
125	6.7	3.3	5.7	2.1	3	5.72318	1.29328	.	.
126	7.2	3.2	6.0	1.8	3	5.27916	-0.04246	.	.
127	6.2	2.8	4.8	1.8	3	4.08087	0.18594	.	.
128	6.1	3.0	4.9	1.8	3	4.07704	0.52324	.	.
129	6.4	2.8	5.6	2.1	3	6.51910	0.29698	.	.
130	7.2	3.0	5.8	1.6	3	4.58372	-0.85682	.	.
131	7.4	2.8	6.1	1.9	3	6.22824	-0.71272	.	.
132	7.9	3.8	6.4	2.0	3	5.22049	1.46820	.	.
133	6.4	2.8	5.6	2.2	3	6.80015	0.58090	.	.
134	6.3	2.8	5.1	1.5	3	3.81516	-0.94299	.	.
135	6.1	2.6	5.6	1.4	3	5.10749	-2.13059	.	.
136	7.7	3.0	6.1	2.3	3	6.79672	0.86309	.	.
137	6.3	3.4	5.6	2.4	3	6.52450	2.44504	.	.
138	6.4	3.1	5.5	1.8	3	4.99550	0.18777	.	.
139	6.0	3.0	4.8	1.8	3	3.93985	0.61402	.	.
140	6.9	3.1	5.4	2.1	3	5.20383	1.14477	.	.
141	6.7	3.1	5.6	2.4	3	6.65309	1.80532	.	.
142	6.9	3.1	5.1	2.3	3	5.10556	1.99218	.	.
143	5.8	2.7	5.1	1.9	3	5.50748	-0.03581	.	.
144	6.8	3.2	5.9	2.3	3	6.79602	1.46069	.	.
145	6.7	3.3	5.7	2.5	3	6.84736	2.42895	.	.
146	6.7	3.0	5.2	2.3	3	5.64500	1.67772	.	.
147	6.3	2.5	5.0	1.9	3	5.17956	-0.36348	.	.
148	6.5	3.0	5.2	2.0	3	4.96774	0.82114	.	.
149	6.2	3.4	5.4	2.3	3	5.88615	2.34509	.	.
150	5.9	3.0	5.1	1.8	3	4.68315	0.33203	.	.

Plot of Can2*Can1. Symbol is value of group.



NOTE: 13 obs hidden.

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
group	3	1 2 3

Number of Observations Read	150
Number of Observations Used	150

The GLM Procedure

Dependent Variable: X1 Sepal Length

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	63.2121333	31.6060667	119.26	<.0001
Error	147	38.9562000	0.2650082		
Corrected Total	149	102.1683333			

R-Square	Coeff Var	Root MSE	X1 Mean
0.618706	8.809859	0.514789	5.843333

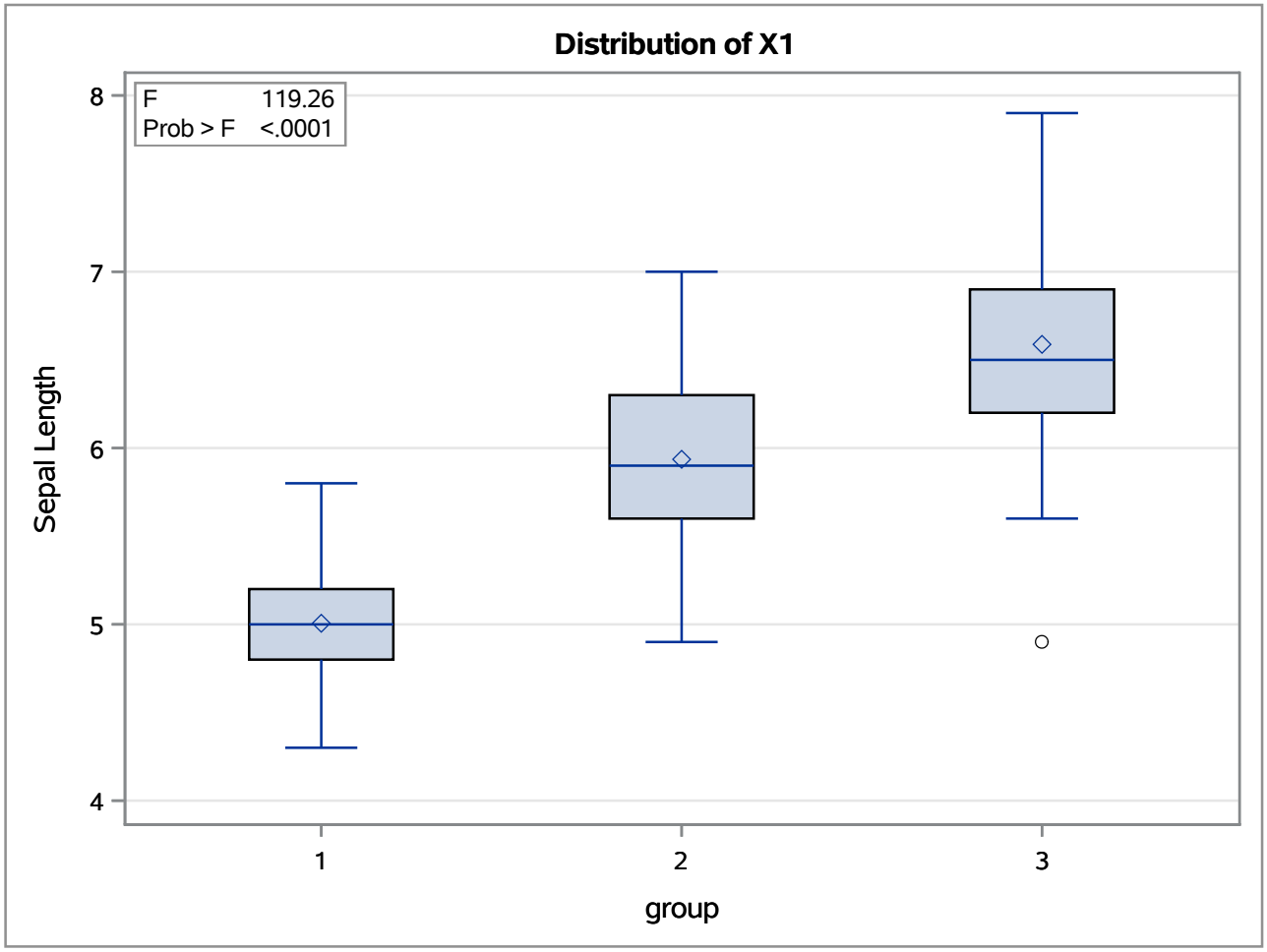
Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	63.21213333	31.60606667	119.26	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	63.21213333	31.60606667	119.26	<.0001

Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
1 v/s 2&3	1	52.58453333	52.58453333	198.43	<.0001
2 v/s 3	1	10.62760000	10.62760000	40.10	<.0001

The GLM Procedure

Dependent Variable: X1 Sepal Length



The GLM Procedure

Dependent Variable: X2 Sepal Width

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	11.34493333	5.67246667	49.16	<.0001
Error	147	16.96200000	0.11538776		
Corrected Total	149	28.30693333			

R-Square	Coeff Var	Root MSE	X2 Mean
0.400783	11.11059	0.339688	3.057333

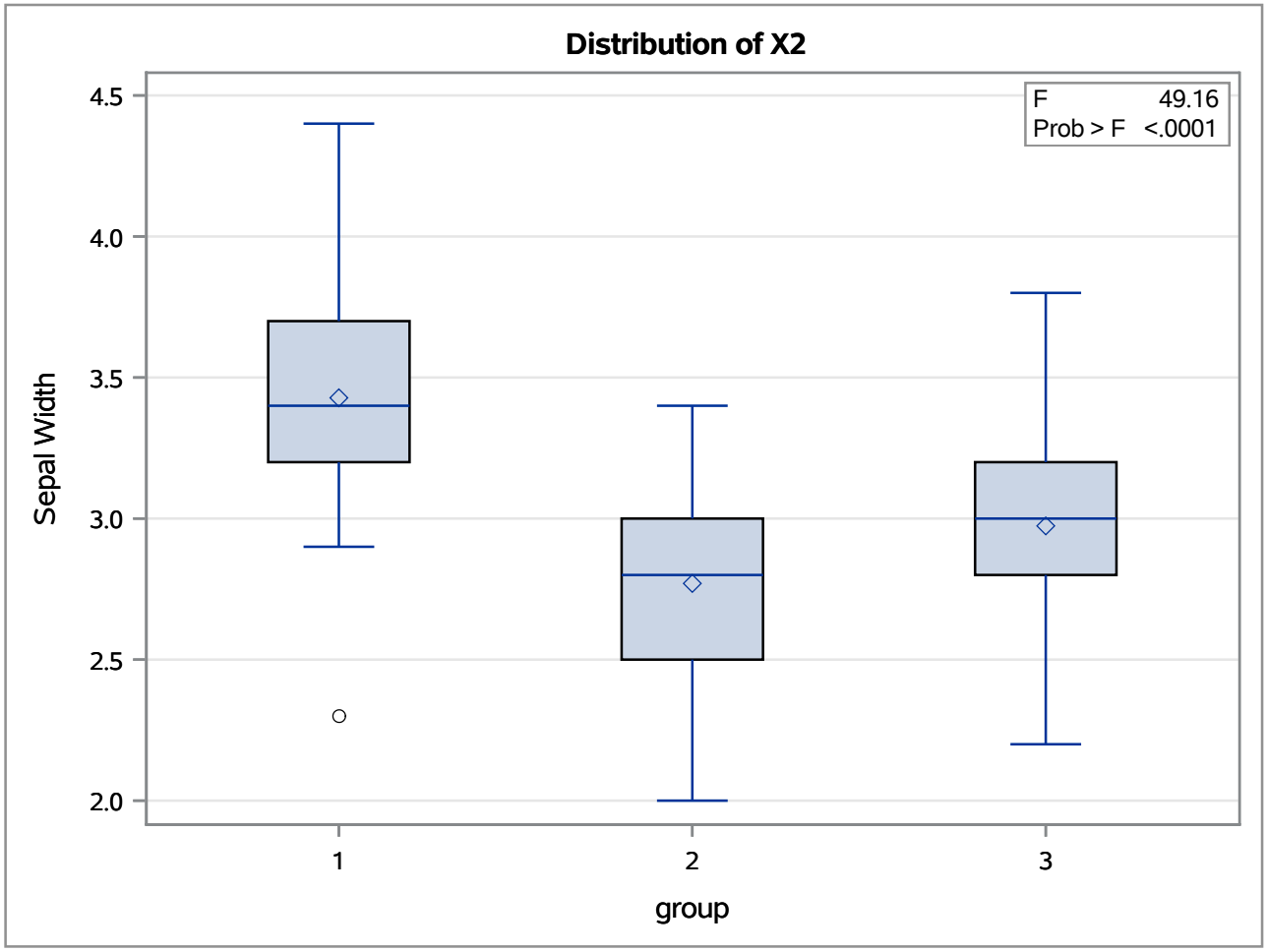
Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	11.34493333	5.67246667	49.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	11.34493333	5.67246667	49.16	<.0001

Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
1 v/s 2&3	1	10.30453333	10.30453333	89.30	<.0001
2 v/s 3	1	1.04040000	1.04040000	9.02	0.0031

The GLM Procedure

Dependent Variable: X2 Sepal Width



The GLM Procedure

Dependent Variable: X3 Petal Length

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	437.1028000	218.5514000	1180.16	<.0001
Error	147	27.2226000	0.1851878		
Corrected Total	149	464.3254000			

R-Square	Coeff Var	Root MSE	X3 Mean
0.941372	11.45116	0.430334	3.758000

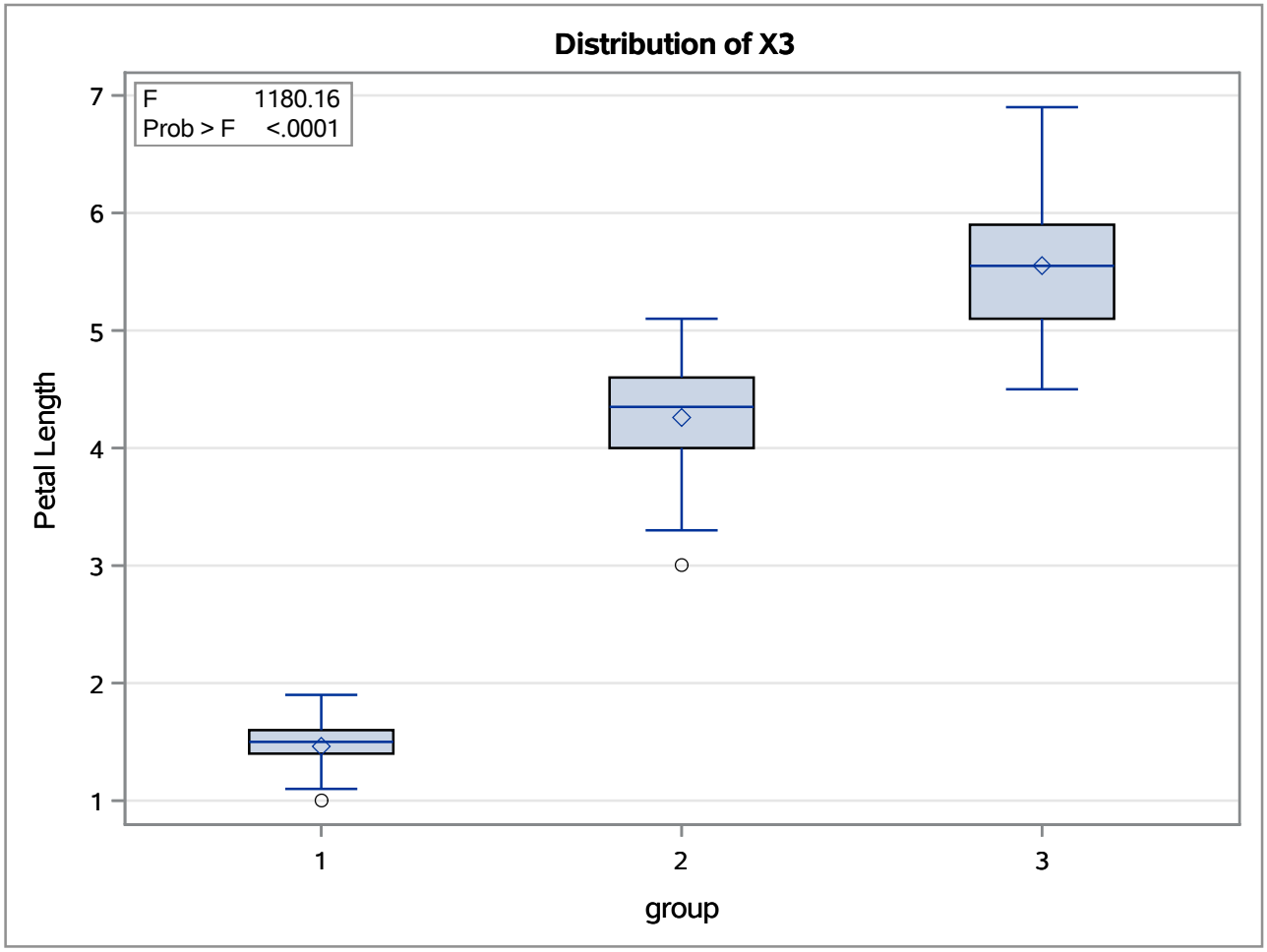
Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	437.1028000	218.5514000	1180.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	437.1028000	218.5514000	1180.16	<.0001

Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
1 v/s 2&3	1	395.3712000	395.3712000	2134.97	<.0001
2 v/s 3	1	41.7316000	41.7316000	225.35	<.0001

The GLM Procedure

Dependent Variable: X3 Petal Length



The GLM Procedure

Dependent Variable: X4 Petal Width

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	80.41333333	40.20666667	960.01	<.0001
Error	147	6.15660000	0.04188163		
Corrected Total	149	86.56993333			

R-Square	Coeff Var	Root MSE	X4 Mean
0.928883	17.06365	0.204650	1.199333

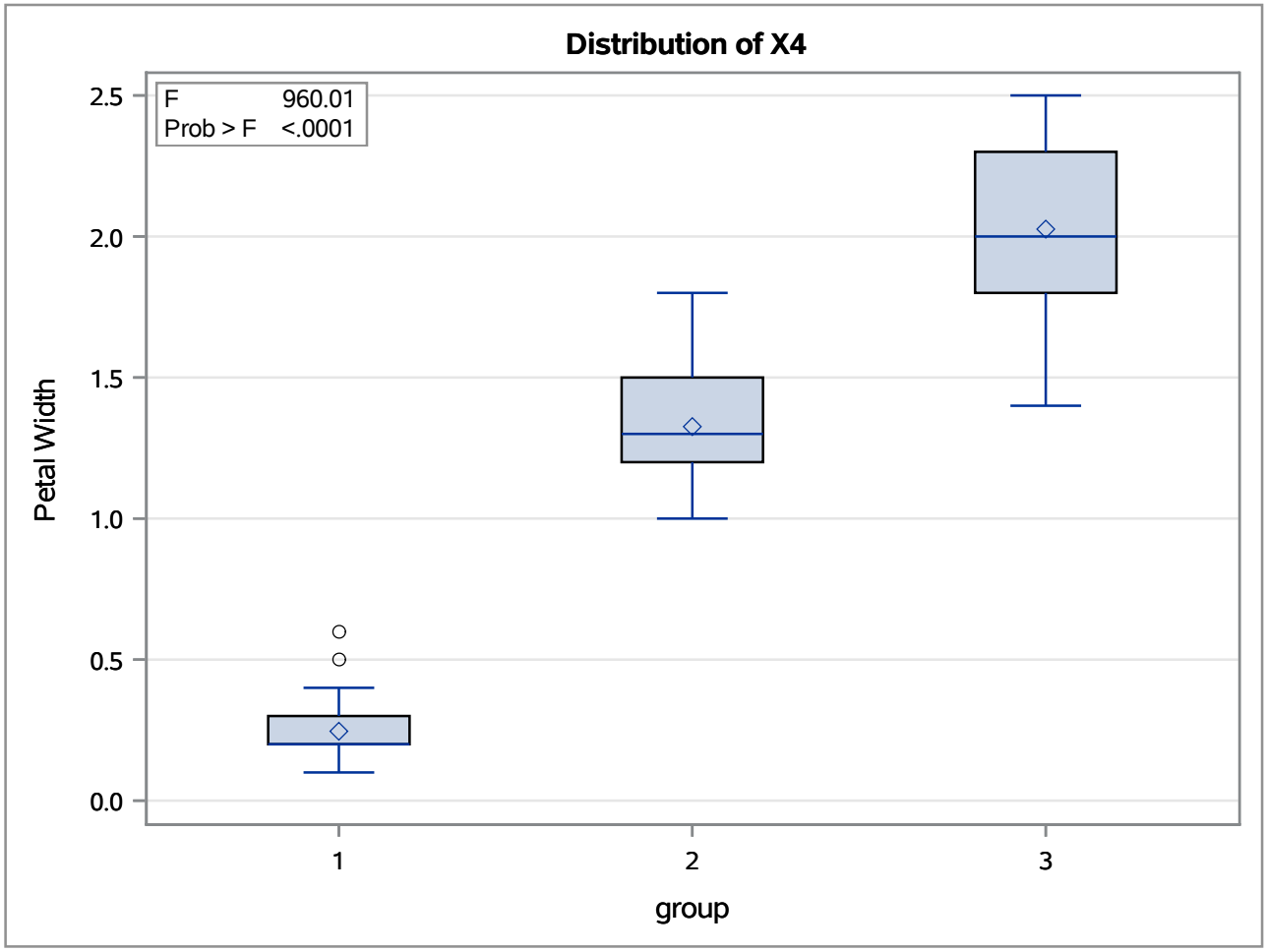
Source	DF	Type I SS	Mean Square	F Value	Pr > F
group	2	80.41333333	40.20666667	960.01	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
group	2	80.41333333	40.20666667	960.01	<.0001

Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
1 v/s 2&3	1	68.16333333	68.16333333	1627.52	<.0001
2 v/s 3	1	12.25000000	12.25000000	292.49	<.0001

The GLM Procedure

Dependent Variable: X4 Petal Width



The GLM Procedure
Multivariate Analysis of Variance

E = Error SSCP Matrix				
	X1	X2	X3	X4
X1	38.9562	13.63	24.6246	5.645
X2	13.63	16.962	8.1208	4.8084
X3	24.6246	8.1208	27.2226	6.2718
X4	5.645	4.8084	6.2718	6.1566

Partial Correlation Coefficients from the Error SSCP Matrix / Prob > |r|				
DF = 147	X1	X2	X3	X4
X1	1.000000	0.530236 <.0001	0.756164 <.0001	0.364506 <.0001
X2	0.530236 <.0001	1.000000	0.377916 <.0001	0.470535 <.0001
X3	0.756164 <.0001	0.377916 <.0001	1.000000	0.484459 <.0001
X4	0.364506 <.0001	0.470535 <.0001	0.484459 <.0001	1.000000

The GLM Procedure
Multivariate Analysis of Variance

H = Type III SSCP Matrix for group				
	X1	X2	X3	X4
X1	63.212133333	-19.95266667	165.2484	71.279333333
X2	-19.95266667	11.344933333	-57.2396	-22.93266667
X3	165.2484	-57.2396	437.1028	186.774
X4	71.279333333	-22.93266667	186.774	80.413333333

Characteristic Roots and Vectors of: E Inverse * H, where H = Type III SSCP Matrix for group E = Error SSCP Matrix					
Characteristic Root	Percent	Characteristic Vector V'EV=1			
		X1	X2	X3	X4
32.1919292	99.12	-0.06840592	-0.12656121	0.18155288	0.23180286
0.2853910	0.88	0.00198791	0.17852670	-0.07686357	0.23417227
0.0000000	0.00	0.10268742	-0.19415509	-0.22502879	0.37627520
0.0000000	0.00	-0.24194505	0.10603485	0.10535376	0.00000000

MANOVA Tests for the Hypothesis of No Overall group Effect H = Type III SSCP Matrix for group E = Error SSCP Matrix S=2 M=0.5 N=71		
Statistic	Value	P-Value
Wilks' Lambda	0.02343863	<.0001
Pillai's Trace	1.19189883	<.0001
Hotelling-Lawley Trace	32.47732024	<.0001
Roy's Greatest Root	32.19192920	<.0001

H = Contrast SSCP Matrix for 1 v/s 2&3				
	X1	X2	X3	X4
X1	52.584533333	-23.27786667	144.1888	59.869333333
X2	-23.27786667	10.304533333	-63.8288	-26.50266667
X3	144.1888	-63.8288	395.3712	164.164
X4	59.869333333	-26.50266667	164.164	68.163333333

The GLM Procedure
Multivariate Analysis of Variance

Characteristic Roots and Vectors of: E Inverse * H, where
H = Contrast SSCP Matrix for 1 v/s 2&3
E = Error SSCP Matrix

Characteristic Root	Percent	Characteristic Vector V'EV=1			
		X1	X2	X3	X4
29.5519688	100.00	-0.06843477	-0.13155712	0.18365306	0.22509079
0.0000000	0.00	0.08653879	-0.06935063	-0.22820714	0.44663898
0.0000000	0.00	-0.23716714	0.21780047	0.12165476	0.00000000
0.0000000	0.00	0.07310882	0.16515230	0.00000000	0.00000000

MANOVA Tests for the Hypothesis of No Overall 1 v/s 2&3 Effect
H = Contrast SSCP Matrix for 1 v/s 2&3
E = Error SSCP Matrix

S=1 M=1 N=71

Statistic	Value	P-Value
Wilks' Lambda	0.03273111	<.0001
Pillai's Trace	0.96726889	<.0001
Hotelling-Lawley Trace	29.55196881	<.0001
Roy's Greatest Root	29.55196881	<.0001

H = Contrast SSCP Matrix for 2 v/s 3

	X1	X2	X3	X4
X1	10.6276	3.3252	21.0596	11.41
X2	3.3252	1.0404	6.5892	3.57
X3	21.0596	6.5892	41.7316	22.61
X4	11.41	3.57	22.61	12.25

Characteristic Roots and Vectors of: E Inverse * H, where
H = Contrast SSCP Matrix for 2 v/s 3
E = Error SSCP Matrix

Characteristic Root	Percent	Characteristic Vector V'EV=1			
		X1	X2	X3	X4
2.92535143	100.00	-0.06467885	-0.06736097	0.15024621	0.29123903
0.00000000	0.00	-0.09895639	0.28531826	0.00238388	0.00462095
0.00000000	0.00	0.10463229	-0.10400622	-0.25666558	0.40658420
0.00000000	0.00	0.22100180	-0.00823441	-0.11022706	0.00000000

The GLM Procedure
Multivariate Analysis of Variance

MANOVA Tests for the Hypothesis of No Overall 2 v/s 3 Effect
H = Contrast SSCP Matrix for 2 v/s 3
E = Error SSCP Matrix

S=1 M=1 N=71

Statistic	Value	P-Value
Wilks' Lambda	0.25475426	<.0001
Pillai's Trace	0.74524574	<.0001
Hotelling-Lawley Trace	2.92535143	<.0001
Roy's Greatest Root	2.92535143	<.0001

The DISCRIM Procedure

Total Sample Size	150	**DF Total**	149
Variables	4	**DF Within Classes**	147
Classes	3	**DF Between Classes**	2

Number of Observations Read	150
Number of Observations Used	150

Class Level Information

group	Variable Name	Frequency	Weight	Proportion	Prior Probability
1	_1	50	50.0000	0.333333	0.333333
2	_2	50	50.0000	0.333333	0.333333
3	_3	50	50.0000	0.333333	0.333333

Pooled Covariance Matrix Information

Covariance Matrix Rank	Natural Log of the Determinant of the Covariance Matrix
4	-9.95854

The DISCRIM Procedure

Generalized Squared Distance to group			
From group	1	2	3
1	0	89.86419	179.38471
2	89.86419	0	17.20107
3	179.38471	17.20107	0

Linear Discriminant Function for group			
Variable	1	2	3
Constant	-85.20986	-71.75400	-103.26971
X1	23.54417	15.69821	12.44585
X2	23.58787	7.07251	3.68528
X3	-16.43064	5.21145	12.76654
X4	-17.39841	6.43423	21.07911

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
1	1	1		1.0000	0.0000	0.0000
2	1	1		1.0000	0.0000	0.0000
3	1	1		1.0000	0.0000	0.0000
4	1	1		1.0000	0.0000	0.0000
5	1	1		1.0000	0.0000	0.0000
6	1	1		1.0000	0.0000	0.0000
7	1	1		1.0000	0.0000	0.0000
8	1	1		1.0000	0.0000	0.0000
9	1	1		1.0000	0.0000	0.0000
10	1	1		1.0000	0.0000	0.0000
11	1	1		1.0000	0.0000	0.0000
12	1	1		1.0000	0.0000	0.0000
13	1	1		1.0000	0.0000	0.0000
14	1	1		1.0000	0.0000	0.0000
15	1	1		1.0000	0.0000	0.0000
16	1	1		1.0000	0.0000	0.0000
17	1	1		1.0000	0.0000	0.0000
18	1	1		1.0000	0.0000	0.0000
19	1	1		1.0000	0.0000	0.0000
20	1	1		1.0000	0.0000	0.0000
21	1	1		1.0000	0.0000	0.0000
22	1	1		1.0000	0.0000	0.0000
23	1	1		1.0000	0.0000	0.0000
24	1	1		1.0000	0.0000	0.0000
25	1	1		1.0000	0.0000	0.0000
26	1	1		1.0000	0.0000	0.0000
27	1	1		1.0000	0.0000	0.0000
28	1	1		1.0000	0.0000	0.0000
29	1	1		1.0000	0.0000	0.0000
30	1	1		1.0000	0.0000	0.0000
31	1	1		1.0000	0.0000	0.0000
32	1	1		1.0000	0.0000	0.0000
33	1	1		1.0000	0.0000	0.0000
34	1	1		1.0000	0.0000	0.0000

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
35	1	1		1.0000	0.0000	0.0000
36	1	1		1.0000	0.0000	0.0000
37	1	1		1.0000	0.0000	0.0000
38	1	1		1.0000	0.0000	0.0000
39	1	1		1.0000	0.0000	0.0000
40	1	1		1.0000	0.0000	0.0000
41	1	1		1.0000	0.0000	0.0000
42	1	1		1.0000	0.0000	0.0000
43	1	1		1.0000	0.0000	0.0000
44	1	1		1.0000	0.0000	0.0000
45	1	1		1.0000	0.0000	0.0000
46	1	1		1.0000	0.0000	0.0000
47	1	1		1.0000	0.0000	0.0000
48	1	1		1.0000	0.0000	0.0000
49	1	1		1.0000	0.0000	0.0000
50	1	1		1.0000	0.0000	0.0000
51	2	2		0.0000	0.9999	0.0001
52	2	2		0.0000	0.9993	0.0007
53	2	2		0.0000	0.9958	0.0042
54	2	2		0.0000	0.9996	0.0004
55	2	2		0.0000	0.9956	0.0044
56	2	2		0.0000	0.9985	0.0015
57	2	2		0.0000	0.9858	0.0142
58	2	2		0.0000	1.0000	0.0000
59	2	2		0.0000	0.9999	0.0001
60	2	2		0.0000	0.9995	0.0005
61	2	2		0.0000	1.0000	0.0000
62	2	2		0.0000	0.9992	0.0008
63	2	2		0.0000	1.0000	0.0000
64	2	2		0.0000	0.9943	0.0057
65	2	2		0.0000	1.0000	0.0000
66	2	2		0.0000	1.0000	0.0000
67	2	2		0.0000	0.9806	0.0194
68	2	2		0.0000	1.0000	0.0000

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
69	2	2		0.0000	0.9596	0.0404
70	2	2		0.0000	1.0000	0.0000
71	2	3	*	0.0000	0.2532	0.7468
72	2	2		0.0000	1.0000	0.0000
73	2	2		0.0000	0.8155	0.1845
74	2	2		0.0000	0.9996	0.0004
75	2	2		0.0000	1.0000	0.0000
76	2	2		0.0000	0.9999	0.0001
77	2	2		0.0000	0.9983	0.0017
78	2	2		0.0000	0.6892	0.3108
79	2	2		0.0000	0.9925	0.0075
80	2	2		0.0000	1.0000	0.0000
81	2	2		0.0000	1.0000	0.0000
82	2	2		0.0000	1.0000	0.0000
83	2	2		0.0000	1.0000	0.0000
84	2	3	*	0.0000	0.1434	0.8566
85	2	2		0.0000	0.9636	0.0364
86	2	2		0.0000	0.9940	0.0060
87	2	2		0.0000	0.9982	0.0018
88	2	2		0.0000	0.9995	0.0005
89	2	2		0.0000	0.9999	0.0001
90	2	2		0.0000	0.9998	0.0002
91	2	2		0.0000	0.9994	0.0006
92	2	2		0.0000	0.9981	0.0019
93	2	2		0.0000	1.0000	0.0000
94	2	2		0.0000	1.0000	0.0000
95	2	2		0.0000	0.9997	0.0003
96	2	2		0.0000	1.0000	0.0000
97	2	2		0.0000	0.9999	0.0001
98	2	2		0.0000	1.0000	0.0000
99	2	2		0.0000	1.0000	0.0000
100	2	2		0.0000	0.9999	0.0001
101	3	3		0.0000	0.0000	1.0000
102	3	3		0.0000	0.0011	0.9989

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
103	3	3		0.0000	0.0000	1.0000
104	3	3		0.0000	0.0011	0.9989
105	3	3		0.0000	0.0000	1.0000
106	3	3		0.0000	0.0000	1.0000
107	3	3		0.0000	0.0486	0.9514
108	3	3		0.0000	0.0001	0.9999
109	3	3		0.0000	0.0002	0.9998
110	3	3		0.0000	0.0000	1.0000
111	3	3		0.0000	0.0131	0.9869
112	3	3		0.0000	0.0017	0.9983
113	3	3		0.0000	0.0002	0.9998
114	3	3		0.0000	0.0002	0.9998
115	3	3		0.0000	0.0000	1.0000
116	3	3		0.0000	0.0000	1.0000
117	3	3		0.0000	0.0061	0.9939
118	3	3		0.0000	0.0000	1.0000
119	3	3		0.0000	0.0000	1.0000
120	3	3		0.0000	0.2208	0.7792
121	3	3		0.0000	0.0000	1.0000
122	3	3		0.0000	0.0008	0.9992
123	3	3		0.0000	0.0000	1.0000
124	3	3		0.0000	0.0971	0.9029
125	3	3		0.0000	0.0001	0.9999
126	3	3		0.0000	0.0027	0.9973
127	3	3		0.0000	0.1884	0.8116
128	3	3		0.0000	0.1342	0.8658
129	3	3		0.0000	0.0000	1.0000
130	3	3		0.0000	0.1037	0.8963
131	3	3		0.0000	0.0001	0.9999
132	3	3		0.0000	0.0005	0.9995
133	3	3		0.0000	0.0000	1.0000
134	3	2	*	0.0000	0.7294	0.2706
135	3	3		0.0000	0.0660	0.9340
136	3	3		0.0000	0.0000	1.0000

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
137	3	3		0.0000	0.0000	1.0000
138	3	3		0.0000	0.0062	0.9938
139	3	3		0.0000	0.1925	0.8075
140	3	3		0.0000	0.0008	0.9992
141	3	3		0.0000	0.0000	1.0000
142	3	3		0.0000	0.0004	0.9996
143	3	3		0.0000	0.0011	0.9989
144	3	3		0.0000	0.0000	1.0000
145	3	3		0.0000	0.0000	1.0000
146	3	3		0.0000	0.0001	0.9999
147	3	3		0.0000	0.0059	0.9941
148	3	3		0.0000	0.0031	0.9969
149	3	3		0.0000	0.0000	1.0000
150	3	3		0.0000	0.0175	0.9825

*** Misclassified observation**

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.IRIS
Resubstitution Summary using Linear Discriminant Function

Number of Observations and Percent Classified into group				
From group	**1**	**2**	**3**	**Total**
1	50 100.00	0 0.00	0 0.00	50 100.00
2	0 0.00	48 96.00	2 4.00	50 100.00
3	0 0.00	1 2.00	49 98.00	50 100.00
Total	50 33.33	49 32.67	51 34.00	150 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for group				
	1	**2**	**3**	**Total**
Rate	0.0000	0.0400	0.0200	0.0200
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.IRIS
Cross-validation Summary using Linear Discriminant Function

Number of Observations and Percent Classified into group				
From group	**1**	**2**	**3**	**Total**
1	50 100.00	0 0.00	0 0.00	50 100.00
2	0 0.00	48 96.00	2 4.00	50 100.00
3	0 0.00	1 2.00	49 98.00	50 100.00
Total	50 33.33	49 32.67	51 34.00	150 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for group				
	1	**2**	**3**	**Total**
Rate	0.0000	0.0400	0.0200	0.0200
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure

Total Sample Size	150	**DF Total**	149
Variables	4	**DF Within Classes**	147
Classes	3	**DF Between Classes**	2

Number of Observations Read	150
Number of Observations Used	150

Class Level Information

group	Variable Name	Frequency	Weight	Proportion	Prior Probability
1	_1	50	50.0000	0.333333	0.333333
2	_2	50	50.0000	0.333333	0.333333
3	_3	50	50.0000	0.333333	0.333333

Within Covariance Matrix Information

group	Covariance Matrix Rank	Natural Log of the Determinant of the Covariance Matrix
1	4	-13.06736
2	4	-10.87433
3	4	-8.92706

The DISCRIM Procedure

Generalized Squared Distance to group			
From group	1	2	3
1	-13.06736	92.31949	159.84053
2	309.99467	-10.87433	4.91170
3	693.01757	6.99238	-8.92706

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
1	1	1		1.0000	0.0000	0.0000
2	1	1		1.0000	0.0000	0.0000
3	1	1		1.0000	0.0000	0.0000
4	1	1		1.0000	0.0000	0.0000
5	1	1		1.0000	0.0000	0.0000
6	1	1		1.0000	0.0000	0.0000
7	1	1		1.0000	0.0000	0.0000
8	1	1		1.0000	0.0000	0.0000
9	1	1		1.0000	0.0000	0.0000
10	1	1		1.0000	0.0000	0.0000
11	1	1		1.0000	0.0000	0.0000
12	1	1		1.0000	0.0000	0.0000
13	1	1		1.0000	0.0000	0.0000
14	1	1		1.0000	0.0000	0.0000
15	1	1		1.0000	0.0000	0.0000
16	1	1		1.0000	0.0000	0.0000
17	1	1		1.0000	0.0000	0.0000
18	1	1		1.0000	0.0000	0.0000
19	1	1		1.0000	0.0000	0.0000
20	1	1		1.0000	0.0000	0.0000
21	1	1		1.0000	0.0000	0.0000
22	1	1		1.0000	0.0000	0.0000
23	1	1		1.0000	0.0000	0.0000
24	1	1		1.0000	0.0000	0.0000
25	1	1		1.0000	0.0000	0.0000
26	1	1		1.0000	0.0000	0.0000
27	1	1		1.0000	0.0000	0.0000
28	1	1		1.0000	0.0000	0.0000
29	1	1		1.0000	0.0000	0.0000
30	1	1		1.0000	0.0000	0.0000
31	1	1		1.0000	0.0000	0.0000
32	1	1		1.0000	0.0000	0.0000
33	1	1		1.0000	0.0000	0.0000
34	1	1		1.0000	0.0000	0.0000

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
35	1	1		1.0000	0.0000	0.0000
36	1	1		1.0000	0.0000	0.0000
37	1	1		1.0000	0.0000	0.0000
38	1	1		1.0000	0.0000	0.0000
39	1	1		1.0000	0.0000	0.0000
40	1	1		1.0000	0.0000	0.0000
41	1	1		1.0000	0.0000	0.0000
42	1	1		1.0000	0.0000	0.0000
43	1	1		1.0000	0.0000	0.0000
44	1	1		1.0000	0.0000	0.0000
45	1	1		1.0000	0.0000	0.0000
46	1	1		1.0000	0.0000	0.0000
47	1	1		1.0000	0.0000	0.0000
48	1	1		1.0000	0.0000	0.0000
49	1	1		1.0000	0.0000	0.0000
50	1	1		1.0000	0.0000	0.0000
51	2	2		0.0000	1.0000	0.0000
52	2	2		0.0000	0.9996	0.0004
53	2	2		0.0000	0.9984	0.0016
54	2	2		0.0000	0.9972	0.0028
55	2	2		0.0000	0.9973	0.0027
56	2	2		0.0000	0.9888	0.0112
57	2	2		0.0000	0.9947	0.0053
58	2	2		0.0000	1.0000	0.0000
59	2	2		0.0000	0.9998	0.0002
60	2	2		0.0000	0.9937	0.0063
61	2	2		0.0000	0.9999	0.0001
62	2	2		0.0000	0.9985	0.0015
63	2	2		0.0000	1.0000	0.0000
64	2	2		0.0000	0.9885	0.0115
65	2	2		0.0000	1.0000	0.0000
66	2	2		0.0000	1.0000	0.0000
67	2	2		0.0000	0.9734	0.0266
68	2	2		0.0000	0.9999	0.0001

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
69	2	2		0.0000	0.8131	0.1869
70	2	2		0.0000	1.0000	0.0000
71	2	3	*	0.0000	0.3359	0.6641
72	2	2		0.0000	1.0000	0.0000
73	2	2		0.0000	0.6993	0.3007
74	2	2		0.0000	0.9721	0.0279
75	2	2		0.0000	1.0000	0.0000
76	2	2		0.0000	1.0000	0.0000
77	2	2		0.0000	0.9985	0.0015
78	2	2		0.0000	0.8610	0.1390
79	2	2		0.0000	0.9921	0.0079
80	2	2		0.0000	1.0000	0.0000
81	2	2		0.0000	1.0000	0.0000
82	2	2		0.0000	1.0000	0.0000
83	2	2		0.0000	1.0000	0.0000
84	2	3	*	0.0000	0.1543	0.8457
85	2	2		0.0000	0.9434	0.0566
86	2	2		0.0000	0.9960	0.0040
87	2	2		0.0000	0.9994	0.0006
88	2	2		0.0000	0.9989	0.0011
89	2	2		0.0000	0.9998	0.0002
90	2	2		0.0000	0.9989	0.0011
91	2	2		0.0000	0.9807	0.0193
92	2	2		0.0000	0.9970	0.0030
93	2	2		0.0000	1.0000	0.0000
94	2	2		0.0000	1.0000	0.0000
95	2	2		0.0000	0.9986	0.0014
96	2	2		0.0000	0.9997	0.0003
97	2	2		0.0000	0.9996	0.0004
98	2	2		0.0000	0.9999	0.0001
99	2	2		0.0000	1.0000	0.0000
100	2	2		0.0000	0.9998	0.0002
101	3	3		0.0000	0.0000	1.0000
102	3	3		0.0000	0.0005	0.9995

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
103	3	3		0.0000	0.0001	0.9999
104	3	3		0.0000	0.0058	0.9942
105	3	3		0.0000	0.0000	1.0000
106	3	3		0.0000	0.0000	1.0000
107	3	3		0.0000	0.0039	0.9961
108	3	3		0.0000	0.0000	1.0000
109	3	3		0.0000	0.0001	0.9999
110	3	3		0.0000	0.0000	1.0000
111	3	3		0.0000	0.0061	0.9939
112	3	3		0.0000	0.0010	0.9990
113	3	3		0.0000	0.0001	0.9999
114	3	3		0.0000	0.0000	1.0000
115	3	3		0.0000	0.0000	1.0000
116	3	3		0.0000	0.0000	1.0000
117	3	3		0.0000	0.0331	0.9669
118	3	3		0.0000	0.0003	0.9997
119	3	3		0.0000	0.0000	1.0000
120	3	3		0.0000	0.0411	0.9589
121	3	3		0.0000	0.0000	1.0000
122	3	3		0.0000	0.0000	1.0000
123	3	3		0.0000	0.0000	1.0000
124	3	3		0.0000	0.0281	0.9719
125	3	3		0.0000	0.0009	0.9991
126	3	3		0.0000	0.0073	0.9927
127	3	3		0.0000	0.0566	0.9434
128	3	3		0.0000	0.1511	0.8489
129	3	3		0.0000	0.0000	1.0000
130	3	3		0.0000	0.0198	0.9802
131	3	3		0.0000	0.0002	0.9998
132	3	3		0.0000	0.0092	0.9908
133	3	3		0.0000	0.0000	1.0000
134	3	2	*	0.0000	0.6050	0.3950
135	3	3		0.0000	0.0002	0.9998
136	3	3		0.0000	0.0000	1.0000

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.IRIS
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in group						
Obs	From group	Classified into group		1	2	3
137	3	3		0.0000	0.0000	1.0000
138	3	3		0.0000	0.0502	0.9498
139	3	3		0.0000	0.1407	0.8593
140	3	3		0.0000	0.0002	0.9998
141	3	3		0.0000	0.0000	1.0000
142	3	3		0.0000	0.0000	1.0000
143	3	3		0.0000	0.0005	0.9995
144	3	3		0.0000	0.0000	1.0000
145	3	3		0.0000	0.0000	1.0000
146	3	3		0.0000	0.0000	1.0000
147	3	3		0.0000	0.0002	0.9998
148	3	3		0.0000	0.0011	0.9989
149	3	3		0.0000	0.0000	1.0000
150	3	3		0.0000	0.0608	0.9392

*** Misclassified observation**

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.IRIS
Resubstitution Summary using Quadratic Discriminant Function

Number of Observations and Percent Classified into group				
From group	**1**	**2**	**3**	**Total**
1	50 100.00	0 0.00	0 0.00	50 100.00
2	0 0.00	48 96.00	2 4.00	50 100.00
3	0 0.00	1 2.00	49 98.00	50 100.00
Total	50 33.33	49 32.67	51 34.00	150 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for group				
	1	**2**	**3**	**Total**
Rate	0.0000	0.0400	0.0200	0.0200
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.IRIS
Cross-validation Summary using Quadratic Discriminant Function

Number of Observations and Percent Classified into group				
From group	**1**	**2**	**3**	**Total**
1	50 100.00	0 0.00	0 0.00	50 100.00
2	0 0.00	47 94.00	3 6.00	50 100.00
3	0 0.00	1 2.00	49 98.00	50 100.00
Total	50 33.33	48 32.00	52 34.67	150 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for group				
	1	**2**	**3**	**Total**
Rate	0.0000	0.0600	0.0200	0.0267
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure

Total Sample Size	150	**DF Total**	149
Variables	4	**DF Within Classes**	147
Classes	3	**DF Between Classes**	2

Number of Observations Read	150
Number of Observations Used	150

Class Level Information

group	Variable Name	Frequency	Weight	Proportion	Prior Probability
1	_1	50	50.0000	0.333333	0.333333
2	_2	50	50.0000	0.333333	0.333333
3	_3	50	50.0000	0.333333	0.333333

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.IRIS
Resubstitution Summary using 5 Nearest Neighbors

Number of Observations and Percent Classified into group				
From group	**1**	**2**	**3**	**Total**
1	50 100.00	0 0.00	0 0.00	50 100.00
2	0 0.00	47 94.00	3 6.00	50 100.00
3	0 0.00	1 2.00	49 98.00	50 100.00
Total	50 33.33	48 32.00	52 34.67	150 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for group				
	1	**2**	**3**	**Total**
Rate	0.0000	0.0600	0.0200	0.0267
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.IRIS
Cross-validation Summary using 5 Nearest Neighbors

Number of Observations and Percent Classified into group				
From group	**1**	**2**	**3**	**Total**
1	50 100.00	0 0.00	0 0.00	50 100.00
2	0 0.00	47 94.00	3 6.00	50 100.00
3	0 0.00	1 2.00	49 98.00	50 100.00
Total	50 33.33	48 32.00	52 34.67	150 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for group				
	1	**2**	**3**	**Total**
Rate	0.0000	0.0600	0.0200	0.0267
Priors	0.3333	0.3333	0.3333	