Obs	GRADE	FLOORS	BEDROOMS	SQFT_LIVING	PRICE
1	7	1	2	1160	468000
2	7	1	2	1200	189000
3	7	1	2	1070	252700
4	7	1	2	1980	585000
5	7	1	2	2020	355000
6	7	1	3	1180	221900
7	7	1	3	1060	291850
8	7	1	3	1780	229500
9	7	1	3	1370	400000
10	7	1	3	1250	230000
11	7	1	4	1960	604000
12	7	1	4	1620	385000
13	7	1	4	2060	322500
14	7	1	4	1220	240000
15	7	1	4	1760	380000
16	7	1.5	2	1430	455000
17	7	1.5	2	1420	592500
18	7	1.5	2	1490	625000
19	7	1.5	2	2130	730000
20	7	1.5	2	1100	450000
21	7	1.5	3	1430	310000
22	7	1.5	3	2770	317625
23	7	1.5	3	1980	555000
24	7	1.5	3	1670	460000
25	7	1.5	3	1110	560000
26	7	1.5	4	1600	485000
27	7	1.5	4	2330	687500
28	7	1.5	4	2750	571000
29	7	1.5	4	1610	535000
30	7	1.5	4	2100	445000
31	7	2	2	1610	215000
32	7	2	2	1030	335000
33	7	2	2	2420	430000
34	7	2	2	1050	163500
35	7	2	2	1450	655000
36	7	2	3	2570	538000
37	7	2	3	1715	257500

Obs	GRADE	FLOORS	BEDROOMS	SQFT_LIVING	PRICE
38	7	2	3	1890	323000
39	7	2	3	1890	395000
40	7	2	3	1570	685000
41	7	2	4	2250	292500
42	7	2	4	2240	287000
43	7	2	4	1900	360000
44	7	2	4	1980	243500
45	7	2	4	2070	430000
46	8	1	2	1240	188500
47	8	1	2	3900	1072000
48	8	1	2	1320	467000
49	8	1	2	1510	479950
50	8	1	2	1420	641000
51	8	1	3	1680	510000
52	8	1	3	3560	662500
53	8	1	3	2150	650000
54	8	1	3	1680	356000
55	8	1	3	1580	430000
56	8	1	4	4220	775000
57	8	1	4	2160	260000
58	8	1	4	2010	660500
59	8	1	4	2590	452000
60	8	1	4	2030	500000
61	8	1.5	2	1410	439900
62	8	1.5	2	1600	672324
63	8	1.5	2	2700	1260000
64	8	1.5	2	1750	575000
65	8	1.5	2	1700	710000
66	8	1.5	3	1400	667000
67	8	1.5	3	1090	535000
68	8	1.5	3	2300	696000
69	8	1.5	3	1660	780000
70	8	1.5	3	1180	610000
71	8	1.5	4	2750	1450000
72	8	1.5	4	2370	834000
73	8	1.5	4	2610	1000000
74	8	1.5	4	1820	1010000

Obs	GRADE	FLOORS	BEDROOMS	SQFT_LIVING	PRICE
75	8	1.5	4	2440	780000
76	8	2	2	1230	490000
77	8	2	2	1400	372500
78	8	2	2	1270	531000
79	8	2	2	1180	419000
80	8	2	2	1370	359000
81	8	2	3	2450	329000
82	8	2	3	2450	937000
83	8	2	3	2320	580500
84	8	2	3	3160	488000
85	8	2	3	2420	301000
86	8	2	4	2570	719000
87	8	2	4	2360	640000
88	8	2	4	2620	605000
89	8	2	4	1850	430000
90	8	2	4	2380	360000
91	9	1	2	2680	775000
92	9	1	2	1880	460000
93	9	1	2	3570	835000
94	9	1	2	1670	539950
95	9	1	2	1910	435000
96	9	1	3	3050	2000000
97	9	1	3	2753	1350000
98	9	1	3	2370	790000
99	9	1	3	2930	559900
100	9	1	3	2500	662000
101	9	1	4	2480	840000
102	9	1	4	2240	592500
103	9	1	4	3650	2400000
104	9	1	4	1710	749000
105	9	1	4	3140	578000
106	9	1.5	2	2360	1087500
107	9	1.5	2	2460	1370000
108	9	1.5	2	1590	850000
109	9	1.5	2	2320	1150000
110	9	1.5	2	1410	399900
111	9	1.5	3	2070	850830

Obs	GRADE	FLOORS	BEDROOMS	SQFT_LIVING	PRICE
112	9	1.5	3	3950	784000
113	9	1.5	3	2170	876650
114	9	1.5	3	2730	1338750
115	9	1.5	3	2350	339000
116	9	1.5	4	2050	740000
117	9	1.5	4	5450	610000
118	9	1.5	4	3190	1249000
119	9	1.5	4	3040	870000
120	9	1.5	4	3160	1280000
121	9	2	2	1070	259950
122	9	2	2	1780	935000
123	9	2	2	1590	409900
124	9	2	2	2540	945000
125	9	2	2	1295	487028
126	9	2	3	2140	940000
127	9	2	3	2770	461000
128	9	2	3	2320	437500
129	9	2	3	2910	770000
130	9	2	3	2714	465000
131	9	2	4	2950	650000
132	9	2	4	2570	625000
133	9	2	4	2290	785000
134	9	2	4	2830	885000
135	9	2	4	3230	480000

Class Level Information				
Class	Levels	Values		
BEDROOMS	3	234		

Number of Observations Read	135
Number of Observations Used	135

The GLM Procedure

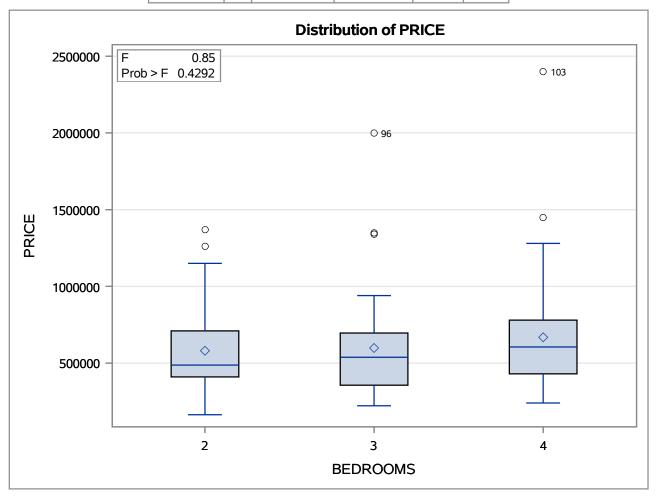
Dependent Variable: PRICE PRICE

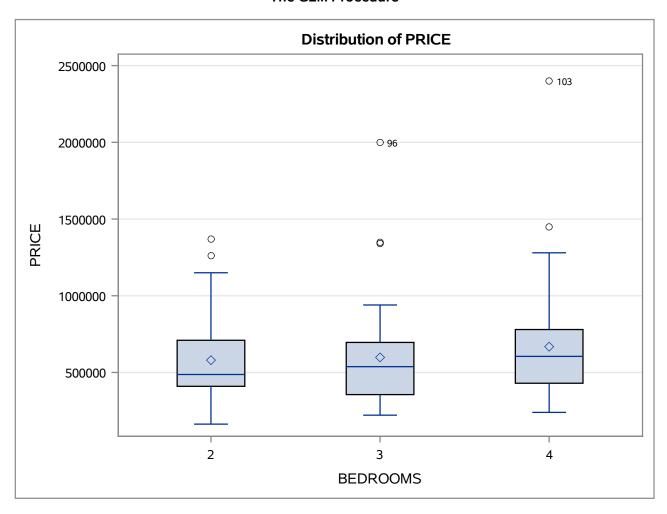
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	194374183732	97187091866	0.85	0.4292
Error	132	1.5070959E13	114173934029		
Corrected Total	134	1.5265333E13			

R-Square	Coeff Var	Root MSE	PRICE Mean
0.012733	54.87633	337896.3	615741.5

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BEDROOMS	2	194374183732	97187091866	0.85	0.4292

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BEDROOMS	2	194374183732	97187091866	0.85	0.4292





The GLM Procedure

Ryan-Einot-Gabriel-Welsch Multiple Range Test for PRICE

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	132
Error Mean Square	1.142E11

Number of Means	2	3
Critical Range	140909.49	168858.25

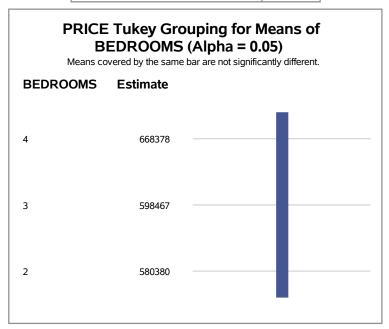


The GLM Procedure

Tukey's Studentized Range (HSD) Test for PRICE

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	132
Error Mean Square	1.142E11
Critical Value of Studentized Range	3.35232
Minimum Significant Difference	168858

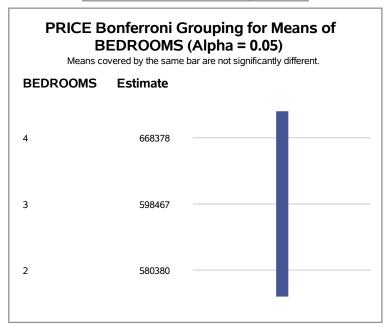


The GLM Procedure

Bonferroni (Dunn) t Tests for PRICE

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	132
Error Mean Square	1.142E11
Critical Value of t	2.42487
Minimum Significant Difference	172735

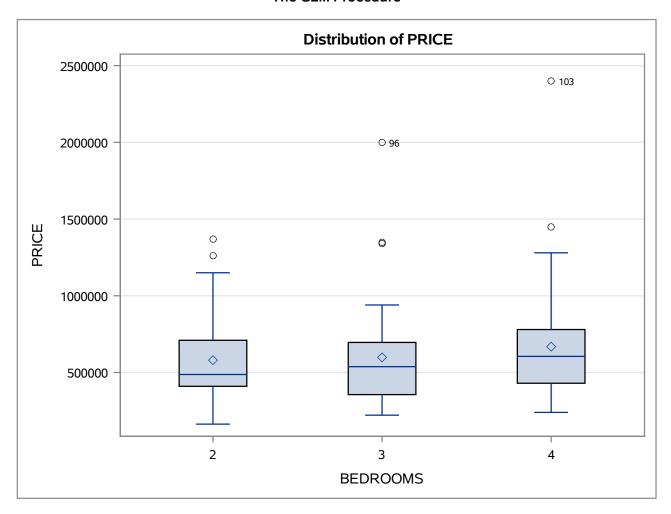


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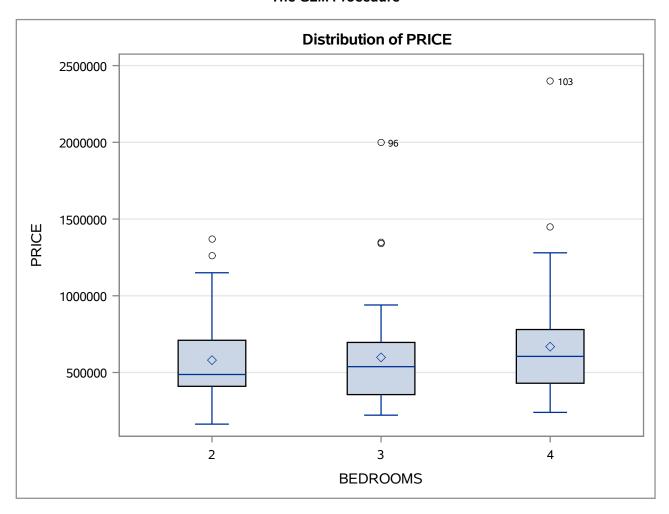
SAS Program for CRAC Design-HOUSE_PRICES

Levene's Test for Homogeneity of PRICE Variance ANOVA of Squared Deviations from Group Means					
Source DF Squares Square F Value Pr > F					
BEDROOMS 2 8.189E22 4.095E22 0.39 0.6755					
Error	132	1.374E25	1.041E23		

Bartlett's Test for Homogeneity of PRICE Variance			
Source	DF Chi-Square		Pr > ChiSq
BEDROOMS	2	3.2785	0.1941



		PRICE	
Level of BEDROOMS	N	Mean	Std Dev
2	45	580380.044	289360.996
3	45	598466.778	336714.123
4	45	668377.778	381333.995



		PRICE	
Level of BEDROOMS	N	Mean	Std Dev
2	45	580380.044	289360.996
3	45	598466.778	336714.123
4	45	668377.778	381333.995

The UNIVARIATE Procedure Variable: PRICE (PRICE)

Moments				
N	45	Sum Weights	45	
Mean	580380.044	Sum Observations	26117102	
Std Deviation	289360.996	Variance	8.37298E10	
Skewness	0.97435185	Kurtosis	0.53730398	
Uncorrected SS	1.8842E13	Corrected SS	3.68411E12	
Coeff Variation	49.8571581	Std Error Mean	43135.3905	

	Basic Statistical Measures				
Location Variability					
Mean	580380.0	Std Deviation	289361		
Median	487028.0	Variance	8.37298E10		
Mode		Range	1206500		
		Interquartile Range	300100		

Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t	13.45485	Pr > t	<.0001	
Sign	М	22.5	Pr >= M	<.0001	
Signed Rank	S	517.5	Pr >= S	<.0001	

Quantiles (Definition 5)		
Level	Quantile	
100% Max	1370000	
99%	1370000	
95%	1150000	
90%	1072000	
75% Q3	710000	
50% Median	487028	
25% Q1	409900	
10%	252700	
5%	189000	
1%	163500	
0% Min	163500	

The UNIVARIATE Procedure Variable: PRICE (PRICE)

Extreme Observations					
Lowest				Highest	
Value	BEDROOMS	Obs	Value	BEDROOMS	Obs
163500	2	14	1072000	2	17
188500	2	16	1087500	2	36
189000	2	2	1150000	2	39
215000	2	11	1260000	2	23
252700	2	3	1370000	2	37

The UNIVARIATE Procedure Variable: PRICE (PRICE)

Moments					
N	45	Sum Weights	45		
Mean	598466.778	Sum Observations	26931005		
Std Deviation	336714.123	Variance	1.13376E11		
Skewness	2.07099645	Kurtosis	6.19673932		
Uncorrected SS	2.11059E13	Corrected SS	4.98856E12		
Coeff Variation	56.2627927	Std Error Mean	50194.3778		

Basic Statistical Measures				
Location Variability				
Mean	598466.8	Std Deviation	336714	
Median	538000.0	Variance	1.13376E11	
Mode		Range	1778100	
		Interquartile Range	340000	

Tests for Location: Mu0=0						
Test	Statistic p Value					
Student's t	t	11.92298	Pr > t	<.0001		
Sign	М	22.5	Pr >= M	<.0001		
Signed Rank	S	517.5	Pr >= S	<.0001		

Quantiles (Definition 5)		
Level	Quantile	
100% Max	2000000	
99%	2000000	
95%	1338750	
90%	937000	
75% Q3	696000	
50% Median	538000	
25% Q1	356000	
10%	291850	
5%	230000	
1%	221900	
0% Min	221900	

The UNIVARIATE Procedure Variable: PRICE (PRICE)

Extreme Observations						
Lowest			Highest			
Value	BEDROOMS	Obs	Value BEDROOMS Obs			
221900	3	46	937000	3	72	
229500	3	48	940000	3	86	
230000	3	50	1338750	3	84	
257500	3	57	1350000	3	77	
291850	3	47	2000000	3	76	

The UNIVARIATE Procedure Variable: PRICE (PRICE)

BEDROOMS=4

Moments					
N	45	Sum Weights	45		
Mean	668377.778	Sum Observations	30077000		
Std Deviation	381333.995	Variance	1.45416E11		
Skewness	2.42502487	Kurtosis	8.91279282		
Uncorrected SS	2.65011E13	Corrected SS	6.39829E12		
Coeff Variation	57.0536615	Std Error Mean	56845.9156		

Basic Statistical Measures				
Location Variability				
Mean	668377.8	Std Deviation	381334	
Median	605000.0	Variance	1.45416E11	
Mode	360000.0	Range	2160000	
		Interquartile Range	350000	

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0						
Test	St	atistic	p Value			
Student's t	t	11.75771	Pr > t	<.0001		
Sign	М	22.5	Pr >= M	<.0001		
Signed Rank	s	517.5	Pr >= S	<.0001		

Quantiles (Definition 5)		
Level	Quantile	
100% Max	2400000	
99%	2400000	
95%	1280000	
90%	1010000	
75% Q3	780000	
50% Median	605000	
25% Q1	430000	
10%	292500	
5%	260000	
1%	240000	
0% Min	240000	

The UNIVARIATE Procedure Variable: PRICE (PRICE)

Extreme Observations						
Lowest			Highest			
Value	BEDROOMS	Obs	Value BEDROOMS Obs			
240000	4	94	1010000	4	114	
243500	4	104	1249000	4	128	
260000	4	107	1280000	4	130	
287000	4	102	1450000	4	111	
292500	4	101	2400000	4	123	