#### The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: y

Number of Observations Read 72 Number of Observations Used 72

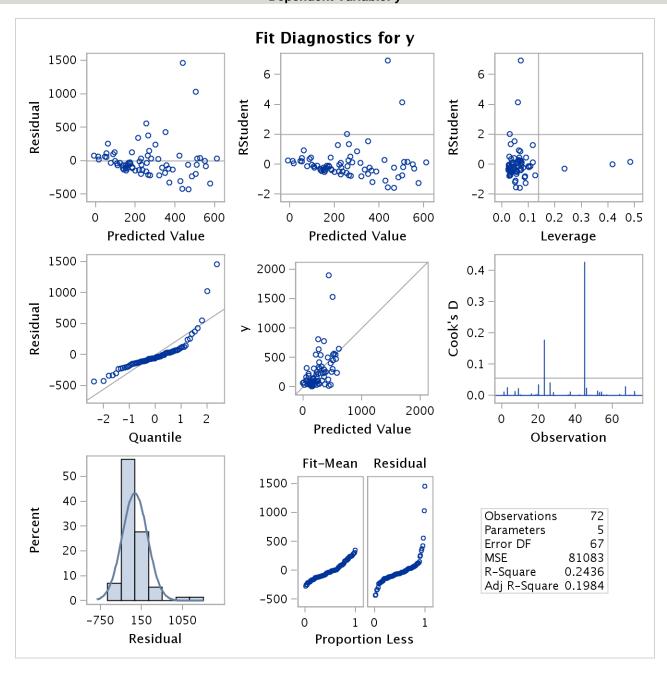
Analysis of Variance							
Source	DF	Sum of Squares	Mean Square		Pr > F		
Model	4	1749357	437339	5.39	0.0008		
Error	67	5432562	81083				
<b>Corrected Total</b>	71	7181919					

Root MSE	284.75080	R-Square	0.2436
<b>Dependent Mean</b>	262.53208	Adj R-Sq	0.1984
Coeff Var	108.46324		

Parameter Estimates								
Variable	Label	DF	Parameter Estimate		t Value	Pr >  t		
Intercept	Intercept	1	-237.14651	199.35166	-1.19	0.2384		
Age	Age	1	-3.08181	5.51472	-0.56	0.5781		
OwnRent	OwnRent	1	27.94091	82.92232	0.34	0.7372		
Income	Income	1	234.34703	80.36595	2.92	0.0048		
incomesq		1	-14.99684	7.46934	-2.01	0.0487		

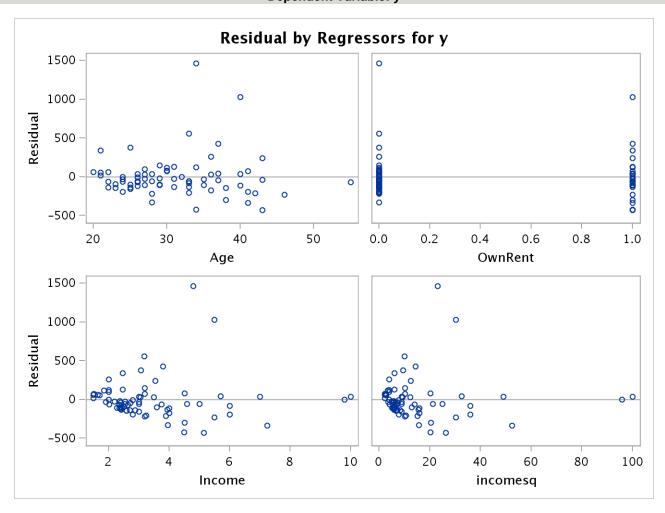
#### The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: y

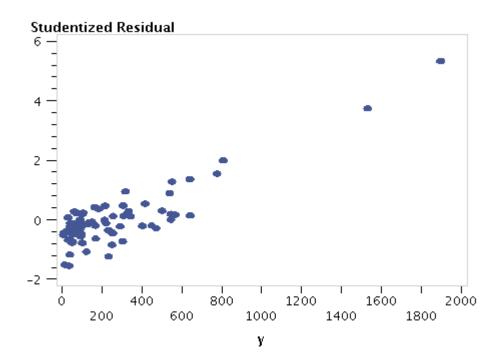


The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: y



## The SAS System



Obs	MDR	Acc	Age	Income	AvaExn	OwnRent	SelfEmpl	incomesq	у
1	0	1	38	4.52	124.98	1	0	20.430	124.98
2	0	1	33	2.42	9.85	0	0	5.856	9.85
3	0	1	34	4.5	15	1	0	20.250	15.00
4	0	1	31	2.54	137.87	0	0	6.452	137.87
5	0	1	32	9.79	546.5	1	0	95.844	546.50
6	0	1	23	2.5	92	0	0	6.250	92.00
7	0	1	28	3.96	40.83	0	0	15.682	40.83
8	0	1	29	2.37	150.79	1	0	5.617	150.79
9	0	1	37	3.8	777.82	1	0	14.440	777.82
10	0	1	28	3.2	52.58	0	0	10.240	52.58
11	0	1	31	3.95	256.66	1	0	15.603	256.66
12	0	1	29	2.45	78.87	1	0	6.003	78.87
13	0	1	35	1.91	42.62	1	0	3.648	42.62
14	0	1	41	3.2	335.43	1	0	10.240	335.43
15	0	1	40	4	248.72	1	0	16.000	248.72
16	0	1	40	10	548.03	1	1	100.000	548.03
17	0	1	35	2.35	43.34	1	0	5.523	43.34
18	0	1	34	2.00	218.52	1	0	4.000	218.52
19	1	1	36	4	170.64	0	0	16.000	170.64
20	0	1	43	5.14	37.58	1	0	26.420	37.58
21	0	1	30	4.51	502.2	0	0	20.340	502.20
22	0	1	22	1.5	73.18	0	0	2.250	73.18
23	0	1	40	5.5	1532.77	1	0	30.250	1532.77
24	0	1	22	2.03	42.69	0	0	4.121	42.69
25	1	1	29	3.2	417.83	0	0	10.240	417.83
26	0	1	21	2.47	552.72	1	0	6.101	552.72
27	0	1	24	3	222.54	0	0	9.000	222.54
28	0	1	43	3.54	541.3	1	0	12.532	541.30
29	0	1	37	5.7	568.77	1	0	32.490	568.77
30	0	1	27	3.5	344.47	0	0	12.250	344.47
31	0	1	28	4.6	405.35	1	0	21.160	405.35
32	0	1	26	3	310.94	1	0	9.000	310.94
33	0	1	23	2.59	53.65	0	0	6.708	53.65
34	0	1	30	1.51	63.92	0	0	2.280	63.92
35	0	1	30	1.85	165.85	0	0	3.423	165.85
36	0	1	38	2.6	9.58	0	0	6.760	9.58
37	0	1	36	2.0	319.49	0	0	4.000	319.49
38	0	1	26	2.35	83.08	0	0	5.523	83.08
39	0	1	28	7	644.83	1	0	49.000	644.83
40	0	1	24	2	93.2	0	0	4.000	93.20
41	0	1	21	1.7	105.04	0	0	2.890	105.04
42	0	1	24	2.8	34.13	0	0	7.840	34.13
43	0	1	26	2.6	41.19	0	0	5.760	41.19
44	1	1	33	3	169.89	0	0	9.000	169.89
45	0	1	34	4.8	1898.03	0	0	23.040	1898.03
46	0	1	33	3.18	810.39	0	0	10.112	810.39
47		1							
47	0	1	21	1.5	32.78	0	0	2.250	32.78

Obs	MDR	Acc	Age	Income	AvgExp	OwnRent	SelfEmpl	incomesq	у
48	2	1	25	3	95.8	0	0	9.000	95.80
49	0	1	27	2.28	27.78	0	0	5.198	27.78
50	0	1	26	2.8	215.07	0	0	7.840	215.07
51	0	1	22	2.7	79.51	0	0	7.290	79.51
52	0	1	41	6	306.03	0	1	36.000	306.03
53	0	1	42	3.9	104.54	0	0	15.210	104.54
54	0	1	25	3.07	642.47	0	0	9.425	642.47
55	0	1	31	2.46	308.05	1	0	6.052	308.05
56	0	1	27	2	186.35	0	0	4.000	186.35
57	0	1	33	3.25	56.15	0	0	10.563	56.15
58	0	1	37	2.72	129.37	0	0	7.398	129.37
59	0	1	27	2.2	93.11	0	0	4.840	93.11
60	0	1	24	3.75	292.66	0	0	14.063	292.66
61	0	1	25	2.88	98.46	0	0	8.294	98.46
62	0	1	36	3.05	258.55	0	0	9.303	258.55
63	0	1	33	2.55	101.68	0	0	6.503	101.68
64	1	1	55	2.64	65.25	1	0	6.970	65.25
65	0	1	20	1.65	108.61	0	0	2.723	108.61
66	0	1	29	2.4	49.56	0	0	5.760	49.56
67	0	1	41	7.24	235.57	1	0	52.418	235.57
68	0	1	43	2.4	68.38	0	0	5.760	68.38
69	1	1	33	6	474.15	1	0	36.000	474.15
70	1	1	25	3.6	234.05	0	0	12.960	234.05
71	0	1	26	5	451.2	1	0	25.000	451.20
72	0	1	46	5.5	251.52	1	0	30.250	251.52

	Analysis Variable : Age Age											
	N											
N.												
N	Miss	Minimum	Maximum	Median	N Miss Minimum Maximum Median Mean Variance Std Dev 72 0 20.000 55.000 30.000 31.278 51.161 7.153							

	Analysis Variable : Income Income								
	N								
N	Miss	Minimum	Maximum	Median	Mean	Variance	Std Dev		

	Analysis Variable : incomesq								
	N								
N	Miss	Minimum	Maximum	Median	Mean	Variance	Std Dev		

	Analysis Variable : y								
	N N Miss Minimum Maximum Median Mean Variance Std Dev								
NI	Mico	Minimum	Mavimum	Madian	Maan	Variance	Ctd Day		
N	Miss	Minimum	Maximum	Median	Mean	Variance	Std Dev		

	Analysis Variable : OwnRent OwnRent								
N.	N N Miss Minimum Maximum Median Mean Variance Std De								
IA	IVIISS	wiinimum	waximum	wedian	wean	variance	Sta Dev		
72	0	0.000	1.000	0.000	0.375	0.238	0.488		

# The UNIVARIATE Procedure Variable: y

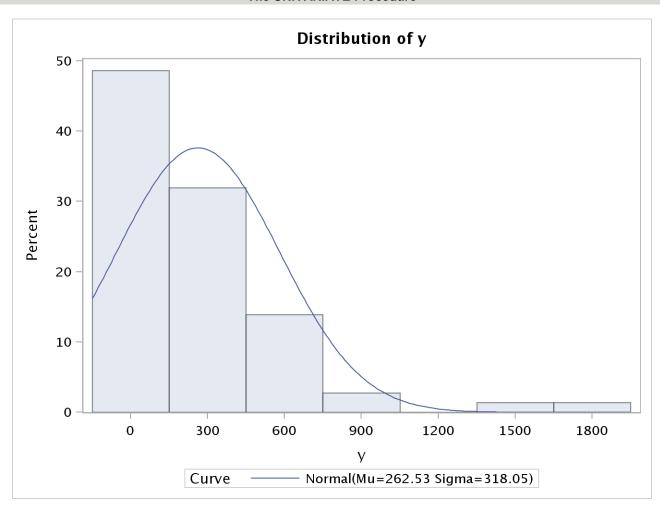
Moments							
N	72	Sum Weights	72				
Mean	262.532083	Sum Observations	18902.31				
Std Deviation	318.046831	Variance	101153.787				
Skewness	3.02172005	Kurtosis	11.9426981				
Uncorrected SS	12144381.7	Corrected SS	7181918.87				
Coeff Variation	121.145891	Std Error Mean	37.4821785				

	<b>Basic Statistical Measures</b>							
Loc	ation	Variability						
Mean	262.5321	Std Deviation	318.04683					
Median	158.3200	Variance	101154					
Mode		Range	1888					
		Interquartile Range	260.64500					

Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t 7.004184		Pr >  t	<.0001	
Sign	M	36	Pr >=  M	<.0001	
Signed Rank	S	1314	Pr >=  S	<.0001	

Quantiles (Definition 5)	
Quantile	Estimate
100% Max	1898.030
99%	1898.030
95%	777.820
90%	552.720
75% Q3	327.460
50% Median	158.320
25% Q1	66.815
10%	40.830
5%	27.780
1%	9.580
0% Min	9.580

<b>Extreme Observations</b>				
Low	est	Highe	st	
Value	Obs	Value	Obs	
9.58	36	644.83	39	
9.85	2	777.82	9	
15.00	3	810.39	46	
27.78	49	1532.77	23	
32.78	47	1898.03	45	

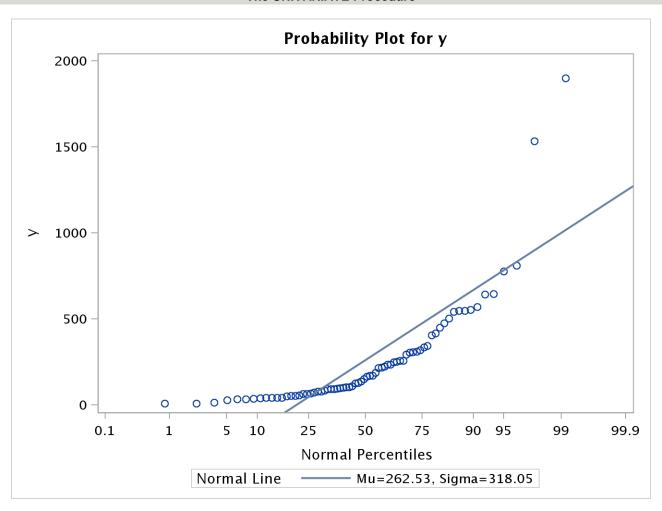


# The UNIVARIATE Procedure Fitted Normal Distribution for y

Parameters for Normal Distribution					
Parameter Symbol Estimate					
Mean	Mu	262.5321			
Std Dev	<b>Std Dev</b> Sigma 318.0468				

Goodness-of-Fit Tests for Normal Distribution					
Test	Statistic p Value				
Kolmogorov-Smirnov	<b>D</b> 0.21321088		Pr > D	<0.010	
Cramer-von Mises	W-Sq	0.96767853	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	<b>A-Sq</b> 5.62995438 <b>Pr &gt; A-Sq</b>			

Quantiles for Normal Distribution				
	Quar	ntile		
Percent	Observed	<b>Estimated</b>		
1.0	9.58000	-477.3555		
5.0	27.78000	-260.6084		
10.0	40.83000	-145.0613		
25.0	66.81500	48.0128		
50.0	158.32000	262.5321		
75.0	327.46000	477.0514		
90.0	552.72000	670.1255		
95.0	777.82000	785.6726		
99.0	1898.03000	1002.4197		



# The UNIVARIATE Procedure Variable: Age (Age)

Moments				
N 72 Sum Weights 72				
Mean	31.2777778	Sum Observations	2252	
Std Deviation	7.15270504	Variance	51.1611894	
Skewness	0.67447985	Kurtosis	0.332986	
Uncorrected SS	74070	Corrected SS	3632.44444	
Coeff Variation	22.8683287	Std Error Mean	0.84295437	

	Basic Statistical Measures				
Location Variability					
Mean	31.27778 <b>Std Deviation</b> 7.152				
Median	30.00000	Variance	51.16119		
Mode	33.00000	Range	35.00000		
		Interquartile Range	10.00000		

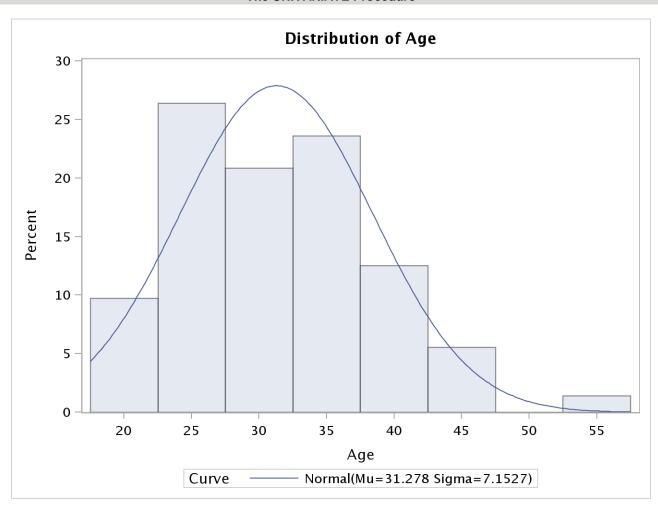
Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t	37.10495	Pr >  t	<.0001	
Sign	M	36	Pr >=  M	<.0001	
Signed Rank	S	1314	Pr >=  S	<.0001	

Quantiles (Definition 5)		
Quantile	Estimate	
100% Max	55	
99%	55	
95%	43	
90%	41	
75% Q3	36	
50% Median	30	
25% Q1	26	
10%	23	
5%	21	
1%	20	
0% Min	20	

Extreme Observations			
Lowest Highest			
Value	Obs	Value	Obs
20	65	43	20
21	47	43	28
21	41	43	68

# The UNIVARIATE Procedure Variable: Age (Age)

Extreme Observations				
Low	Lowest Highest			
Value	Value Obs		Obs	
21	26	46	72	
22	51	55	64	

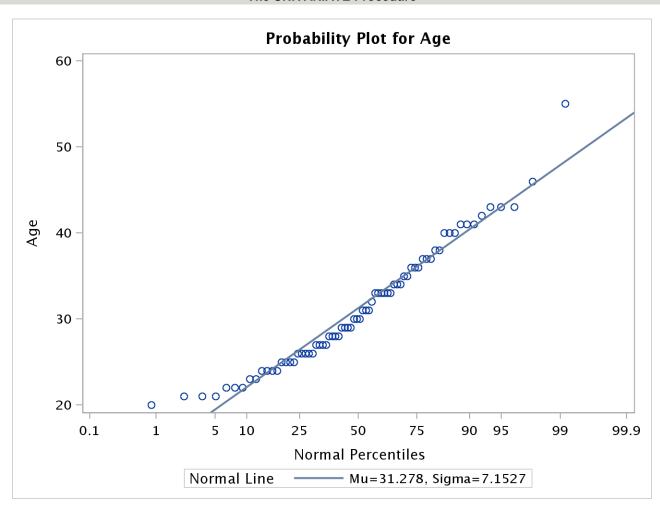


# The UNIVARIATE Procedure Fitted Normal Distribution for Age (Age)

Parameters for Normal Distribution				
Parameter Symbol Estimate				
Mean	Mu	31.27778		
Std Dev	Sigma	7.152705		

Goodness-of-Fit Tests for Normal Distribution					
Test	Statistic p Value				
Kolmogorov-Smirnov	D	0.09715035	Pr > D	0.091	
Cramer-von Mises	W-Sq	0.11291651	Pr > W-Sq	0.078	
Anderson-Darling	A-Sq	0.73459553	Pr > A-Sq	0.054	

Quantiles for Normal Distribution					
	Quantile				
Percent	Observed	<b>Estimated</b>			
1.0	20.0000	14.6381			
5.0	21.0000	19.5126			
10.0	23.0000	22.1112			
25.0	26.0000	26.4534			
50.0	30.0000	31.2778			
75.0	36.0000	36.1022			
90.0	41.0000	40.4443			
95.0	43.0000	43.0429			
99.0	55.0000	47.9175			



The UNIVARIATE Procedure Variable: Income (Income)

Moments					
N 72 Sum Weights					
Mean	3.43708333	Sum Observations	247.47		
Std Deviation	1.69945181	Variance	2.88813644		
Skewness	1.90172346	Kurtosis	4.47839367		
Uncorrected SS	1055.6327	Corrected SS	205.057688		
<b>Coeff Variation</b>	49.4445913	Std Error Mean	0.20028232		

	Basic Statistical Measures				
Loc	Location Variability				
Mean	3.437083	Std Deviation	1.69945		
Median	3.000000	Variance	2.88814		
Mode	2.000000	Range	8.50000		
		Interquartile Range	1.58000		

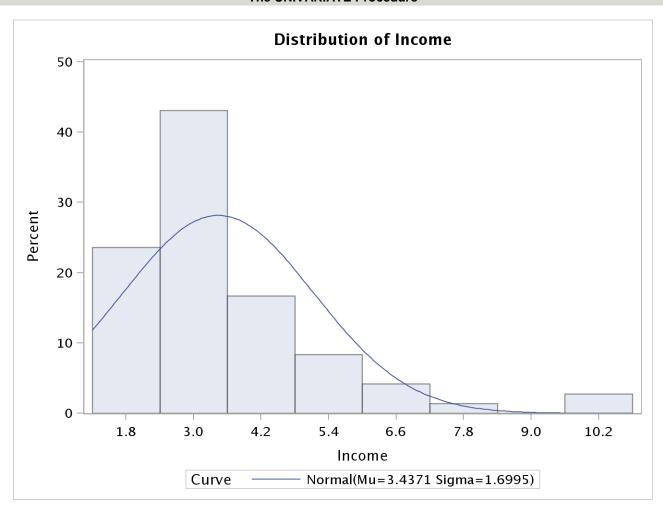
Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0						
Test	Statistic p Value					
Student's t	t 17.16119		Pr >  t	<.0001		
Sign	M	36	Pr >=  M	<.0001		
Signed Rank	S	1314	Pr >=  S	<.0001		

Quantiles (Definition 5)		
Quantile	Estimate	
100% Max	10.00	
99%	10.00	
95%	7.00	
90%	5.50	
75% Q3	3.98	
50% Median	3.00	
25% Q1	2.40	
10%	2.00	
5%	1.65	
1%	1.50	
0% Min	1.50	

The UNIVARIATE Procedure Variable: Income (Income)

Extreme Observations					
Low	Lowest Highest				
Value	Obs	Value	Obs		
1.50	47	6.00	69		
1.50	22	7.00	39		
1.51	34	7.24	67		
1.65	65	9.79	5		
1.70	41	10.00	16		

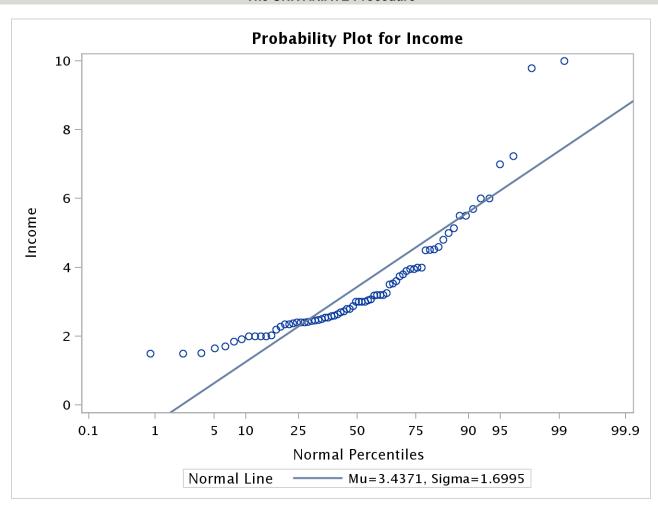


# The UNIVARIATE Procedure Fitted Normal Distribution for Income (Income)

Parameters for Normal Distribution				
Parameter	Symbol	<b>Estimate</b>		
Mean	Mu	3.437083		
Std Dev	Sigma	1.699452		

Goodness-of-Fit Tests for Normal Distribution					
Test Statistic p Value					
Kolmogorov-Smirnov	D	0.18271772	Pr > D	<0.010	
Cramer-von Mises	W-Sq	0.59903880	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	3.45065365	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution						
	Qua	Quantile				
Percent	Observed	<b>Estimated</b>				
1.0	1.50000	-0.51643				
5.0	1.65000	0.64173				
10.0	2.00000	1.25915				
25.0	2.40000	2.29082				
50.0	3.00000	3.43708				
75.0	3.98000	4.58335				
90.0	5.50000	5.61502				
95.0	7.00000	6.23243				
99.0	10.00000	7.39060				



## The UNIVARIATE Procedure Variable: incomesq

Moments				
N 72 Sum Weights				
Mean	14.6615653	Sum Observations	1055.6327	
Std Deviation	17.644929	Variance	311.343518	
Skewness	3.30887251	Kurtosis	12.8224545	
Uncorrected SS	37582.6175	Corrected SS	22105.3898	
Coeff Variation	120.348194	Std Error Mean	2.07947482	

Basic Statistical Measures				
Location Variability				
Mean	lean 14.66157 <b>Std Deviation</b> 17.64			
Median	9.00000	Variance	311.34352	
Mode	Mode 4.00000 Range		97.75000	
		Interquartile Range	10.08080	

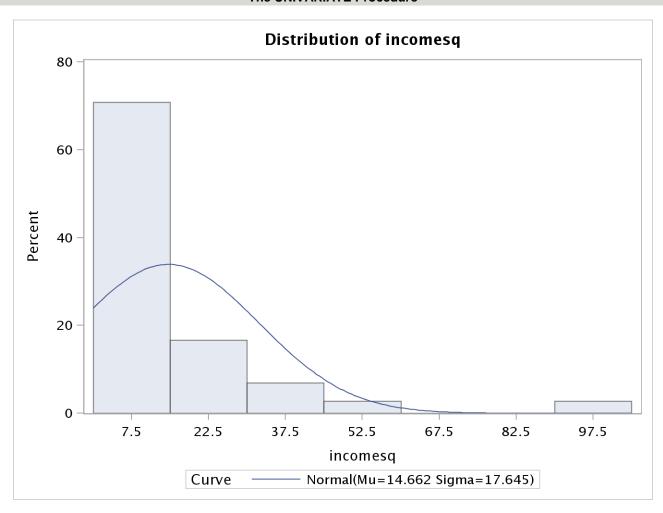
#### Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0					
Test	Statistic p Value				
Student's t	t 7.05061		Pr >  t	<.0001	
Sign	M	36	Pr >=  M	<.0001	
Signed Rank	S	1314	Pr >=  S	<.0001	

Quantiles (Definition 5)		
Quantile	Estimate	
100% Max	100.0000	
99%	100.0000	
95%	49.0000	
90%	30.2500	
75% Q3	15.8408	
50% Median	9.0000	
25% Q1	5.7600	
10%	4.0000	
5%	2.7225	
1%	2.2500	
0% Min	2.2500	

# The UNIVARIATE Procedure Variable: incomesq

Extreme Observations				
Lowest Highest				
Value	Obs	Value	Obs	
2.2500	47	36.0000	69	
2.2500	22	49.0000	39	
2.2801	34	52.4176	67	
2.7225	65	95.8441	5	
2.8900	41	100.0000	16	

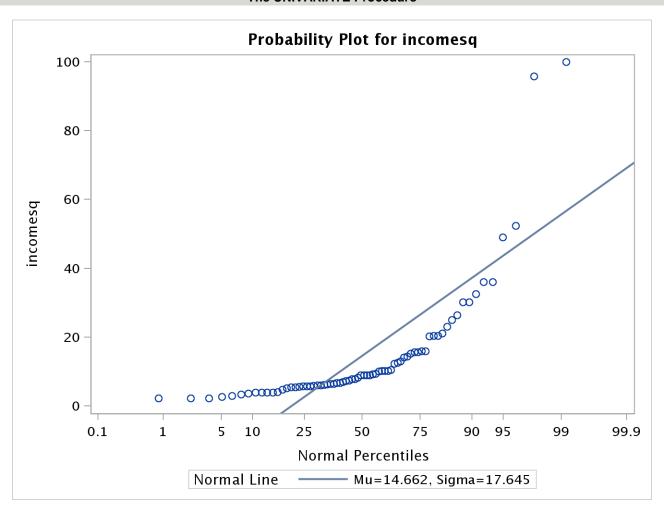


## The UNIVARIATE Procedure Fitted Normal Distribution for incomesq

Parameters for Normal Distribution					
Parameter Symbol Estimate					
Mean	Mu	14.66157			
Std Dev Sigma 17.64493					

Goodness-of-Fit Tests for Normal Distribution					
Test Statistic p Value					
Kolmogorov-Smirnov	D	0.24754549	Pr > D	<0.010	
Cramer-von Mises	W-Sq	1.52074960	Pr > W-Sq	<0.005	
Anderson-Darling	A-Sq	8.24782734	Pr > A-Sq	<0.005	

Quantiles for Normal Distribution					
	Qua	Quantile			
Percent	Observed	<b>Estimated</b>			
1.0	2.25000	-26.38668			
5.0	2.72250	-14.36176			
10.0	4.00000	-7.95132			
25.0	5.76000	2.76024			
50.0	9.00000	14.66157			
75.0	15.84080 26.56289				
90.0	30.25000	37.27445			
95.0	49.00000	43.68489			
99.0	100.00000	55.70981			



# The UNIVARIATE Procedure Variable: OwnRent (OwnRent)

Moments					
N	72	Sum Weights	72		
Mean	0.375	Sum Observations	27		
Std Deviation	0.48752031	Variance	0.23767606		
Skewness	0.52745055	Kurtosis	-1.771815		
Uncorrected SS	27	Corrected SS	16.875		
Coeff Variation	130.005417	Std Error Mean	0.05745482		

Basic Statistical Measures				
Location Variability				
Mean 0.375000 Std Deviation 0.4				
Median	0.000000	Variance	0.23768	
Mode	0.000000	Range	1.00000	
		Interquartile Range	1.00000	

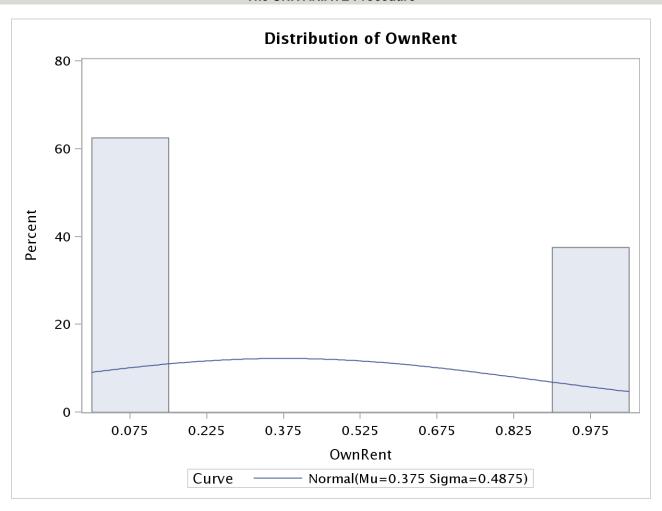
Tests for Location: Mu0=0						
Test	Statistic p Value					
Student's t	t	6.526868	Pr >  t	<.0001		
Sign	M	13.5	Pr >=  M	<.0001		
Signed Rank	ank S 189 Pr >=  S  <.000					

Quantiles (Definition 5)			
Quantile	Estimate		
100% Max	1		
99%	1		
95%	1		
90%	1		
75% Q3	1		
50% Median	0		
25% Q1	0		
10%	0		
5%	0		
1%	0		
0% Min	0		

Extreme Observations						
Low	Lowest Highest					
Value	Obs	Value	Obs			
0	70	1	64			
0	68	1	67			
0	66	1	69			

# The UNIVARIATE Procedure Variable: OwnRent (OwnRent)

Extreme Observations						
Low	est	Highest				
Value	Obs	Value	Obs			
0	65	1	71			
0	63	1	72			

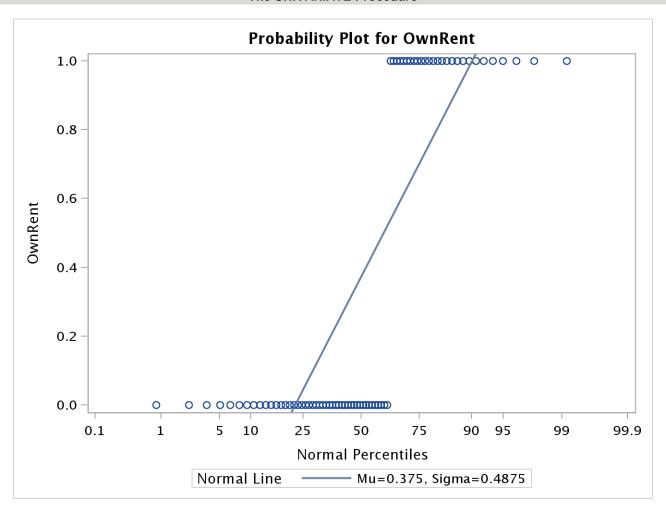


# The UNIVARIATE Procedure Fitted Normal Distribution for OwnRent (OwnRent)

Parameters for Normal Distribution					
Parameter	Symbol	Estimate			
Mean	Mu	0.375			
Std Dev	Sigma	0.48752			

Goodness-of-Fit Tests for Normal Distribution							
Test	S	tatistic	p Value				
Kolmogorov-Smirnov	D	0.4041123	Pr > D	<0.010			
Cramer-von Mises	W-Sq	2.3660157	Pr > W-Sq	<0.005			
Anderson-Darling	A-Sq	13.8560736	Pr > A-Sq	<0.005			

Quantiles for Normal Distribution						
	Quantile					
Percent	Observed	<b>Estimated</b>				
1.0	0.00000	-0.75914				
5.0	0.00000	-0.42690				
10.0	0.00000	-0.24978				
25.0	0.00000	0.04617				
50.0	0.00000	0.37500				
75.0	1.00000	0.70383				
90.0	1.00000	0.99978				
95.0	1.00000	1.17690				
99.0	1.00000	1.50914				



Obs	MDR	Acc	Age	Income	AvgExp	OwnRent	SelfEmpl	incomesq	incomefth	age_or	age_inc
1	0	1	38	4.52	124.98	1	0	20.430	417.40	38	171.76
2	0	1	33	2.42	9.85	0	0	5.856	34.30	0	79.86
3	0	1	34	4.5	15	1	0	20.250	410.06	34	153.00
4	0	1	31	2.54	137.87	0	0	6.452	41.62	0	78.74
5	0	1	32	9.79	546.5	1	0	95.844	9186.09	32	313.28
6	0	1	23	2.5	92	0	0	6.250	39.06	0	57.50
7	0	1	28	3.96	40.83	0	0	15.682	245.91	0	110.88
8	0	1	29	2.37	150.79	1	0	5.617	31.55	29	68.73
9	0	1	37	3.8	777.82	1	0	14.440	208.51	37	140.60
10	0	1	28	3.2	52.58	0	0	10.240	104.86	0	89.60
11	0	1	31	3.95	256.66	1	0	15.603	243.44	31	122.45
12	0	1	29	2.45	78.87	1	0	6.003	36.03	29	71.05
13	0	1	35	1.91	42.62	1	0	3.648	13.31	35	66.85
14	0	1	41	3.2	335.43	1	0	10.240	104.86	41	131.20
15	0	1	40	4	248.72	1	0	16.000	256.00	40	160.00
16	0	1	40	10	548.03	<u>.</u> 1	1	100.000	10000.00	40	400.00
17	0	1	35	2.35	43.34	1	0	5.523	30.50	35	82.25
18	0	1	34	2.00	218.52	1	0	4.000	16.00	34	68.00
19	1	1	36	4	170.64	0	0	16.000	256.00	0	144.00
20	0	1	43	5.14	37.58	1	0	26.420	698.00	43	221.02
21	0	1	30	4.51	502.2	0	0	20.340	413.72	0	135.30
22	0	1	22	1.5	73.18	0	0	2.250	5.06	0	33.00
23	0	1	40	5.5	1532.77	1	0	30.250	915.06	40	220.00
24	0	1	22	2.03	42.69	0	0	4.121	16.98	0	44.66
25	1	1	29	3.2	417.83	0	0	10.240	104.86	0	92.80
26	0	1	21	2.47	552.72	1	0	6.101	37.22	21	51.87
27	0	1	24	3	222.54	0	0	9.000	81.00	0	72.00
28	0	1	43	3.54	541.3	1	0	12.532	157.04	43	152.22
29	0	1	37	5.7	568.77	1	0	32.490	1055.60	37	210.90
30	0	1	27	3.5	344.47	0	0	12.250	150.06	0	94.50
31	0	1	28	4.6	405.35	1	0	21.160	447.75	28	128.80
32	0	1	26	3	310.94	1	0	9.000	81.00	26	78.00
33	_	1	23	2.59	53.65	0	0	6.708	45.00		59.57
34		1	30	1.51	63.92	0	0	2.280	5.20	0	45.30
35		1	30	1.85	165.85	0	0	3.423	11.71	0	55.50
36		1	38	2.6	9.58	0	0	6.760	45.70	0	98.80
37	0	1	36	2.0	319.49	0	0	4.000	16.00	0	72.00
38		1	26	2.35	83.08	0	0	5.523	30.50		61.10
39		1	28	7	644.83	1	0	49.000	2401.00	28	196.00
40		1	24	2	93.2	0	0	4.000	16.00	0	48.00
41	0	1	21	1.7	105.04	0	0	2.890	8.35		35.70
42	0	1	24	2.8	34.13	0	0	7.840	61.47	0	67.20
43		1	26	2.4	41.19	0	0	5.760	33.18	0	62.40
44		1	33	3	169.89	0	0	9.000	81.00	0	99.00
45		1	34	4.8		0	0	23.040	530.84		163.20
46		1	33	3.18	810.39	0	0	10.112	102.26		103.20
47			21								31.50
47	0	1	21	1.5	32.78	0	0	2.250	5.06	0	31.5

Obs	MDR	Acc	Age	Income	AvgExp	OwnRent	SelfEmpl	incomesq	incomefth	age_or	age_inc
48	2	1	25	3	95.8	0	0	9.000	81.00	0	75.00
49	0	1	27	2.28	27.78	0	0	5.198	27.02	0	61.56
50	0	1	26	2.8	215.07	0	0	7.840	61.47	0	72.80
51	0	1	22	2.7	79.51	0	0	7.290	53.14	0	59.40
52	0	1	41	6	306.03	0	1	36.000	1296.00	0	246.00
53	0	1	42	3.9	104.54	0	0	15.210	231.34	0	163.80
54	0	1	25	3.07	642.47	0	0	9.425	88.83	0	76.75
55	0	1	31	2.46	308.05	1	0	6.052	36.62	31	76.26
56	0	1	27	2	186.35	0	0	4.000	16.00	0	54.00
57	0	1	33	3.25	56.15	0	0	10.563	111.57	0	107.25
58	0	1	37	2.72	129.37	0	0	7.398	54.74	0	100.64
59	0	1	27	2.2	93.11	0	0	4.840	23.43	0	59.40
60	0	1	24	3.75	292.66	0	0	14.063	197.75	0	90.00
61	0	1	25	2.88	98.46	0	0	8.294	68.80	0	72.00
62	0	1	36	3.05	258.55	0	0	9.303	86.54	0	109.80
63	0	1	33	2.55	101.68	0	0	6.503	42.28	0	84.15
64	1	1	55	2.64	65.25	1	0	6.970	48.58	55	145.20
65	0	1	20	1.65	108.61	0	0	2.723	7.41	0	33.00
66	0	1	29	2.4	49.56	0	0	5.760	33.18	0	69.60
67	0	1	41	7.24	235.57	1	0	52.418	2747.60	41	296.84
68	0	1	43	2.4	68.38	0	0	5.760	33.18	0	103.20
69	1	1	33	6	474.15	1	0	36.000	1296.00	33	198.00
70	1	1	25	3.6	234.05	0	0	12.960	167.96	0	90.00
71	0	1	26	5	451.2	1	0	25.000	625.00	26	130.00
72	0	1	46	5.5	251.52	1	0	30.250	915.06	46	253.00

Obs	age_incsq	or_income	or_incomesq	incomecube	У
1	776.36	4.52	20.430	92.35	124.98
2	193.26	0.00	0.000	14.17	9.85
3	688.50	4.50	20.250	91.13	15.00
4	200.00	0.00	0.000	16.39	137.87
5	3067.01	9.79	95.844	938.31	546.50
6	143.75	0.00	0.000	15.63	92.00
7	439.08	0.00	0.000	62.10	40.83
8	162.89	2.37	5.617	13.31	150.79
9	534.28	3.80	14.440	54.87	777.82
10	286.72	0.00	0.000	32.77	52.58
11	483.68	3.95	15.603	61.63	256.66
12	174.07	2.45	6.003	14.71	78.87
13	127.68	1.91	3.648	6.97	42.62
14	419.84	3.20	10.240	32.77	335.43
15	640.00	4.00	16.000	64.00	248.72
16	4000.00	10.00	100.000	1000.00	548.03
17	193.29	2.35	5.523	12.98	43.34
18	136.00	2.00	4.000	8.00	218.52
19	576.00	0.00	0.000	64.00	170.64
20	1136.04	5.14	26.420	135.80	37.58

Obs	age incsg	or income	or_incomesq	incomecube	у
21	610.20	0.00	0.000	91.73	502.20
22	49.50	0.00	0.000	3.38	73.18
23	1210.00	5.50	30.250	166.38	1532.77
24	90.66	0.00	0.000	8.37	42.69
25	296.96	0.00	0.000	32.77	417.83
26	128.12	2.47	6.101	15.07	552.72
27	216.00	0.00	0.000	27.00	222.54
28	538.86	3.54	12.532	44.36	541.30
29	1202.13	5.70	32.490	185.19	568.77
30	330.75	0.00	0.000	42.88	344.47
31	592.48	4.60	21.160	97.34	405.35
32	234.00	3.00	9.000	27.00	310.94
33	154.29	0.00	0.000	17.37	53.65
34	68.40	0.00	0.000	3.44	63.92
35	102.68	0.00	0.000	6.33	165.85
36	256.88	0.00	0.000	17.58	9.58
37	144.00	0.00	0.000	8.00	319.49
38	143.59	0.00	0.000	12.98	83.08
39	1372.00	7.00	49.000	343.00	644.83
40	96.00	0.00	0.000	8.00	93.20
41	60.69	0.00	0.000	4.91	105.04
42	188.16	0.00	0.000	21.95	34.13
43	149.76	0.00	0.000	13.82	41.19
44	297.00	0.00	0.000	27.00	169.89
45	783.36	0.00	0.000	110.59	1898.03
46	333.71	0.00	0.000	32.16	810.39
47	47.25	0.00	0.000	3.38	32.78
48	225.00	0.00	0.000	27.00	95.80
49	140.36	0.00	0.000	11.85	27.78
50	203.84	0.00	0.000	21.95	215.07
51	160.38	0.00	0.000	19.68	79.51
52	1476.00	0.00	0.000	216.00	306.03
53	638.82	0.00	0.000	59.32	104.54
54	235.62	0.00	0.000	28.93	642.47
55	187.60	2.46	6.052	14.89	308.05
56	108.00	0.00	0.000	8.00	186.35
57	348.56	0.00	0.000	34.33	56.15
58	273.74	0.00	0.000	20.12	129.37
59	130.68	0.00	0.000	10.65	93.11
60	337.50	0.00	0.000	52.73	292.66
61	207.36	0.00	0.000	23.89	98.46
62	334.89	0.00	0.000	28.37	258.55
63	214.58	0.00	0.000	16.58	101.68
64	383.33	2.64	6.970	18.40	65.25
65	54.45	0.00	0.000	4.49	108.61
66	167.04	0.00	0.000	13.82	49.56
67	2149.12	7.24	52.418	379.50	235.57

Obs	age_incsq	or_income	or_incomesq	incomecube	у
68	247.68	0.00	0.000	13.82	68.38
69	1188.00	6.00	36.000	216.00	474.15
70	324.00	0.00	0.000	46.66	234.05
71	650.00	5.00	25.000	125.00	451.20
72	1391.50	5.50	30.250	166.38	251.52

#### The MODEL Procedure

Model Summary		
Model Variables	1	
Parameters	5	
Equations	1	
Number of Statements	2	

<b>Model Variables</b>	у
Parameters	Const C_Age C_OwnRent C_Income C_IncomeSq
Equations	у

# The Equation to Estimate is y = F(Const(1), C\_Age(Age), C\_OwnRent(OwnRent), C\_Income(Income), C\_IncomeSq)

NOTE: At OLS Iteration 1 CONVERGE=0.001 Criteria Met.

# The MODEL Procedure OLS Estimation Summary

Data Set Options

DATA= EXPENSE

Minimization Summary				
Parameters Estimated	5			
Method	Gauss			
Iterations	1			

Final Convergence Criteria				
R	0			
PPC	0			
RPC(Const)	2347986			
Object	0.55266			
Trace(S)	81083.02			
<b>Objective Value</b>	75452.25			

Observations Processed		
Read	72	
Solved	72	

#### The MODEL Procedure

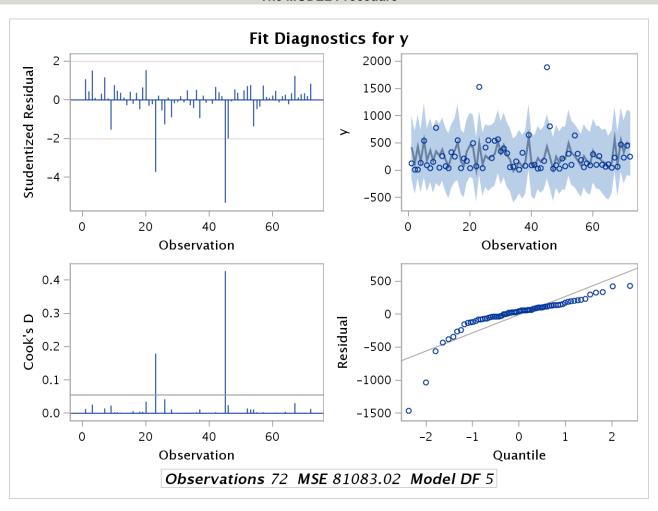
Nonlinear OLS Summary of Residual Errors							
	DF	٠.					Adj
Equation	Model	Error	SSE	MSE	Root MSE	R-Square	R-Sq

Nonlinear OLS Parameter Estimates							
Parameter	Estimate	Approx Std Err		Approx Pr >  t			
Const	-237.147	199.4	-1.19	0.2384			
C_Age	-3.08181	5.5147	-0.56	0.5781			
C_OwnRent	27.94091	82.9223	0.34	0.7372			
C_Income	234.347	80.3660	2.92	0.0048			
C_IncomeSq	-14.9968	7.4693	-2.01	0.0487			

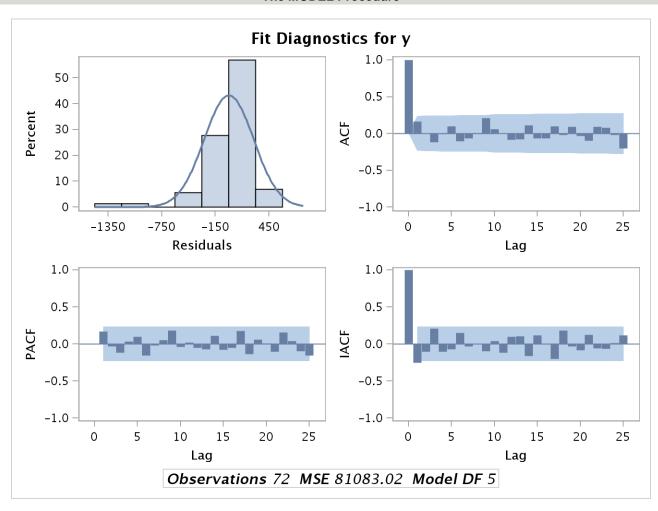
Numb Observ		Statistics for System		
Used	72	Objective	75452	
Missing	0	Objective*N	5432562	

Heteroscedasticity Test										
Equation Test Statistic DF Pr > ChiSq Variables										
у	White's Test	14.33	12	0.2802	Cross of all vars					
	Breusch-Pagan	6.19	2	0.0453	1, Income, income_sq					

#### The MODEL Procedure



#### The MODEL Procedure



Obs	MDR	Acc	Age	Income	AvgExp	OwnRent	SelfEmpl	incomesq	у
1	0	1	22	1.5		0	0	2.250	73.18
2	0	1	21	1.5		0	0	2.250	32.78
3	0	1	30	1.51	63.92	0	0	2.280	63.92
4	0	1	20	1.65		0	0	2.723	108.61
5		1	21	1.7	105.04	0	0	2.890	105.04
6		1	30	1.85	165.85	0	0	3.423	165.85
7	0	1	35	1.91	42.62	1	0	3.648	42.62
8	0	1	34	2	218.52	1	0	4.000	218.52
9	0	1	36	2	319.49	0	0	4.000	319.49
10	0	1	24	2	93.2	0	0	4.000	93.20
11	0	1	27	2	186.35	0	0	4.000	186.35
12	0	1	22	2.03	42.69	0	0	4.121	42.69
13	0	1	27	2.2	93.11	0	0	4.840	93.11
14	0	1	27	2.28	27.78	0	0	5.198	27.78
15	0	1	35	2.35	43.34	1	0	5.523	43.34
16		1	26	2.35	83.08	0	0	5.523	83.08
17	0	1	29	2.37	150.79	1	0	5.617	150.79
18	0	1	26	2.4	41.19	0	0	5.760	41.19
19	0	1	29	2.4	49.56	0	0	5.760	49.56
20	0	1	43	2.4	68.38	0	0	5.760	68.38
21	0	1	33	2.42	9.85	0	0	5.856	9.85
22	0	1	29	2.45	78.87	1	0	6.003	78.87
23	0	1	31	2.46	308.05	1	0	6.052	308.05
24	0	1	21	2.47	552.72	1	0	6.101	552.72
25	0	1	23	2.5	92	0	0	6.250	92.00
26	0	1	31	2.54	137.87	0	0	6.452	137.87
27	0	1	33	2.55	101.68	0	0	6.503	101.68
28	0	1	23	2.59	53.65	0	0	6.708	53.65
29	0	1	38	2.6	9.58	0	0	6.760	9.58
30	1	1	55	2.64	65.25	1	0	6.970	65.25
31	0	1	22	2.7	79.51	0	0	7.290	79.51
32	0	1	37	2.72	129.37	0	0	7.398	129.37
33	0	1	24	2.8	34.13	0	0	7.840	34.13
34	0	1	26	2.8	215.07	0	0	7.840	215.07
35	0	1	25	2.88	98.46	0	0	8.294	98.46
36	0	1	24	3	222.54	0	0	9.000	222.54
37	0	1	26	3	310.94	1	0	9.000	310.94
38	1	1	33	3	169.89	0	0	9.000	169.89
39	2	1	25	3	95.8	0	0	9.000	95.80
40	0	1	36	3.05	258.55	0	0	9.303	258.55
41	0	1	25	3.07	642.47	0	0	9.425	642.47
42	0	1	33	3.18	810.39	0	0	10.112	810.39
43	0	1	28	3.2	52.58	0	0	10.240	52.58
44	0	1	41	3.2	335.43	1	0	10.240	335.43
45	1	1	29	3.2	417.83	0	0	10.240	417.83
46	0	1	33	3.25	56.15	0	0	10.563	56.15
47	0	1	27	3.5	344.47	0	0	12.250	344.47

Obs	MDR	Acc	Age	Income	AvgExp	OwnRent	SelfEmpl	incomesq	У
48	0	1	43	3.54	541.3	1	0	12.532	541.30
49	1	1	25	3.6	234.05	0	0	12.960	234.05
50	0	1	24	3.75	292.66	0	0	14.063	292.66
51	0	1	37	3.8	777.82	1	0	14.440	777.82
52	0	1	42	3.9	104.54	0	0	15.210	104.54
53	0	1	31	3.95	256.66	1	0	15.603	256.66
54	0	1	28	3.96	40.83	0	0	15.682	40.83
55	0	1	40	4	248.72	1	0	16.000	248.72
56	1	1	36	4	170.64	0	0	16.000	170.64
57	0	1	34	4.5	15	1	0	20.250	15.00
58	0	1	30	4.51	502.2	0	0	20.340	502.20
59	0	1	38	4.52	124.98	1	0	20.430	124.98
60	0	1	28	4.6	405.35	1	0	21.160	405.35
61	0	1	34	4.8	1898.03	0	0	23.040	1898.03
62	0	1	26	5	451.2	1	0	25.000	451.20
63	0	1	43	5.14	37.58	1	0	26.420	37.58
64	0	1	40	5.5	1532.77	1	0	30.250	1532.77
65	0	1	46	5.5	251.52	1	0	30.250	251.52
66	0	1	37	5.7	568.77	1	0	32.490	568.77
67	0	1	41	6	306.03	0	1	36.000	306.03
68	1	1	33	6	474.15	1	0	36.000	474.15
69	0	1	28	7	644.83	1	0	49.000	644.83
70	0	1	41	7.24	235.57	1	0	52.418	235.57
71	0	1	32	9.79	546.5	1	0	95.844	546.50
72	0	1	40	10	548.03	1	1	100.000	548.03

Obs	id _M	DDEL_	_TYPE_	_DEPVAR_	_RMSE_	Intercept	Age	OwnRent	Income	incomesq	AvgExp
1	1 MO	DEL1	PARMS	AvgExp	102.587	153.130	-4.13740	108.872	16.886	3.6934	-1
2	2 MO	DEL1	PARMS	AvgExp	397.335	-259.108	-1.94040	-52.828	250.135	-16.1141	-1

Obs	id _MODEL_	_TYPE_	_DEPVAR_	_RMSE_	Intercept	Age	OwnRent	Income	incomesq	AvgExp
1	1 MODEL1	PARMS	AvgExp	265.596	-224.351	-2.13573	119.415	189.893	-11.3830	-1
2	2 MODEL1	PARMS	AvgExp	311.996	-487.879	-4.24401	-95.237	402.141	-33.0446	-1

		LM
The Breusch Pagan Test Statistic Value is	306	.52946
	pval	
The p value associated with this is	0	

The null hypothesis of homoscedasticity is rejected