

```
*,
* ODS LISTING;
*;
ODS Graphics On;
ods pdf file="\\apporto.com\dfs\STVN\Users\ashamsha_stvn\Desktop\Amna-SAS\experimental design\SmokingT
Title 'SAS Program for CRAC - Glucose Levels for Smoking Types';
Options Linesize = 80;
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Data Table1331;
Input A $ X Y @@;
Label A = "SmokingType"
X = 'Age'
Y = 'GlucoseLevel';
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Datalines;
1 67 228.69 2 61 202.21 3 49 171.23
1 81 186.21 2 80 105.92 3 61 120.46
1 71 102.87 2 79 174.12 3 54 104.51
1 65 100.98 2 74 70.09 3 64 191.61
1 59 211.78 2 69 94.39 3 75 221.29
1 80 252.72 2 81 80.43 3 71 193.94
1 82 84.03 2 79 214.09 3 69 195.23
1 74 219.72 2 50 167.41 3 57 212.08
1 72 74.63 2 60 89.22 3 82 144.9
1 78 78.03 2 52 233.29 3 60 213.03
1 63 90.9 2 79 228.7 3 39 58.09
1 58 107.26 2 80 104.12 3 67 61.94
1 78 75.32 2 82 196.92 3 54 96.97
1 63 196.71 2 48 84.2 3 61 111.81
1 78 237.75 2 49 60.91 3 58 240.59
1 56 185.17 2 54 71.22 3 58 82.3
1 45 93.72 2 76 243.58 3 54 191.82
1 59 86.23 2 81 99.33 3 80 68.53
1 76 62.57 2 79 127.29 3 61 76.11
1 67 179.12 2 77 124.13 3 74 72.96
1 66 116.55 2 63 197.54 3 80 259.63
1 80 66.72 2 82 59.32 3 59 116.44
1 79 110.85 2 73 194.99 3 68 77.82
1 70 59.35 2 54 180.93 3 50 102.16
1 47 86.94 2 80 74.9 3 57 221.89
1 70 76.34 2 78 113.01 3 71 81.76
1 57 78.92 2 70 221.58 3 60 97.43
1 74 231.61 2 80 72.67 3 32 76.13
1 50 73.18 2 63 228.56 3 61 112.24
1 79 129.98 2 52 96.59 3 59 118.03
1 76 106.41 2 80 240.09 3 68 271.74
1 38 82.28 2 51 165.31 3 72 97.92
1 58 59.86 2 79 88.92 3 54 87.85
1 78 93.13 2 68 79.79 3 79 205.33
1 82 200.59 2 79 226.98 3 55 210.4
1 38 101.45 2 81 72.81 3 76 199.86
1 76 140.1 2 57 68.02 3 81 250.89
1 76 194.37 2 45 64.14 3 81 70.3
1 66 151.16 2 78 235.63 3 49 104.86
1 65 68.43 2 69 82.81 3 39 97.76
1 68 223.83 2 77 190.32 3 79 97.73
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1	64	111.98	2	56	249.31	3	57	129.54
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1	63	137.3	2	68	206.09	3	45	113.63
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1	82	86.62	2	74	70.28	3	27	102.64
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1	51	112.16	2	72	221.79	3	30	61.45
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1	70	242.52	2	57	67.41	3	21	89.44
1	79	114.77	2	70	239.07	3	18	111.38
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1	78	106.74	2	55	92.98	3	48	101.41
1	51	103.43	2	77	231.56	3	32	98.09
1	63	205.35	2	81	74.02	3	43	86.78
1	77	199.84	2	78	203.87	3	29	63.69
1	77	162.14	2	79	75.02	3	53	64.4
1	66	76.46	2	81	91.54	3	26	120.31
1	57	197.28	2	79	60.94	3	31	122.41
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1	75	78.8	2	80	64.44	3	64	81.6
1	70	69.04	2	46	78.18	3	33	71.16
1	52	77.59	2	74	74.96	3	43	58.63
1	79	57.08	2	77	90	3	40	139.9
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1	27	95.1	2	79	72.73	3	66	93.73
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1	34	106.23	2	73	70.94	3	22	122.1
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1	55	118.82	2	68	233.94	3	28	183.45
1	79	200.28	2	58	87.96	3	40	89.77
1	76	110.99	2	75	243.53	3	26	75.29
1	72	210.78	2	74	205.84	3	36	87.88
1	23	91.97	2	37	162.96	3	29	207.58
1	53	68.76	2	40	95.04	3	51	109.16
1	55	97.4	2	35	85.37	3	57	108.53
1	70	68.34	2	42	82.67	3	48	85.54

1	58	223.36	2	59	109.82	3	63	105.95
1	52	73.73	2	25	60.84	3	46	188.11
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1	53	116.66	2	23	94.09	3	55	75.56
1	75	201.76	2	66	141.24	3	43	111.43
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1	66	87.24	2	44	81.84	3	52	101.5
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1	72	215.64	2	52	78.4	3	17	173.43
1	65	196.36	2	76	209.58	3	31	106.18
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1	51	82.59	2	68	79.58	3	31 85.16
1	64	93.99	2	56	205.26	3	30 104.62
1	31	103.55	2	52	72.79	3	55 112.47
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1	45	73.01	2	13	92.14	3	13 60.69
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1	32	91.34	2	20	104.48	3	45 55.67
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1	40	88.27	2	57	94.18	3	44 97.59
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1	59	88.81	2	44	114.94	3	64 78.43
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1	61	148.24	2	67	68.52	3	32 106.02
1	82	72.93	2	70	102.64	3	41 133.76
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1	71	227.91	2	54	129.16	3	41 229.86
1	51	143.15	2	30	113.85	3	26 89.3
1	55	109.59	2	23	93.74	3	50 103.48
1	57	77.93	2	51	98.41	3	39 102.77
1	62	82.38	2	57	89.44	3	43 101.75
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1	61	78.65	2	30	80.19	3	49 82.41
1	76	77.52	2	42	210.48	3	46 73.72
1	61	204.5	2	40	100.35	3	50 93.04
1	50	206.25	2	77	193.83	3	58 144.16
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1	53	87.03	2	55	93.36	3	47 112.09
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1	51	217.71	2	33	219.97	3	30	65.84
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1	37	67.53	2	56	112.43	3	45	110.47
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1	51	163.56	2	79	99.47	3	36	83.79
1	49	139.43	2	38	88.97	3	69	107.11
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1	29	81.43	2	38	91	3 56	94.71	
1	48	101.22	2	58	76.99	3	30	67.78
1	53	80.81	2	31	109.68	3	47	135.19
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1	47	108.56	2	48	94.04	3	42	208.06
1	41	78.93	2	55	86.6	3	64	103.28
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1	61	155.32	2	36	91.56	3	79	68.37
1	68	58.69	2	31	104.55	3	45	73.27
1	73	88.52	2	61	86.06	3	65	74.01
1	65	88.82	2	52	68.35	3	58	95.75

1	66	71.38	2	39	79.44	3	63	85.51
1	45	176.48	2	40	119.52	3	35	114.45
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1	12	81.66	2	53	78.16	3	47	71.42
1	78	81.99	2	19	84.06	3	46	78.79
1	75	87.69	2	48	69.21	3	48	101.89
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1	57	230.59	2	17	62.49	3	65	197.69
1	22	85.57	2	40	74.51	3	22	73.5
1	43	62.99	2	46	94.63	3	19	72.39
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1	77	222.85	2	20	112.96	3	36	114.16
1	63	92.27	2	77	183.1	3	52	191.66
1	10	99.87	2	37	84.13	3	43	96.3
1	80	86.68	2	62	77.04	3	25	93.88
1	63	104.7	2	17	83.23	3	50	58.7
1	44	105.29	2	28	87.01	3	49	149.13
1	71	56.43	2	80	56.99	3	67	90.01
1	72	209.26	2	37	106.35	3	17	70.03
1	63	95.16	2	26	103.61	3	71	249.29
1	77	74.26	2	58	194.04	3	56	96.93
1	26	154.08	2	17	68.49	3	79	83.07
1	59	67.75	2	19	86.96	3	45	90.43
1	57	92.82	2	59	237.15	3	31	206.59
1	43	91.9	2	59	99.06	3	60	80.86
1	34	69.09	2	54	90.92	3	40	114.32
1	52	223.35	2	27	104.33	3	54	104.42
1	52	102.97	2	51	72.62	3	77	104.23
1	58	135.89	2	51	90.78	3	49	68.44
1	75	87.69	2	71	70.71	3	67	66.67
1	39	90.36	2	31	76.26	3	20	89.03
1	40	63.45	2	39	110.91	3	63	136.81
1	42	124.34	2	74	87.11	3	49	79.64
1	38	84.79	2	80	236.84	3	23	77.75
1	63	85.04	2	40	78.11	3	66	247.48
1	25	97.52	2	24	100.97	3	59	216
1	59	96.25	2	74	99.21	3	71	129.97
1	50	95.01	2	52	113.21	3	68	95.36
1	54	151.33	2	54	92.95	3	75	219.39
1	64	228.42	2	23	110.16	3	49	220.47
1	50	84.4	2	23	92.87	3	82	89.83
1	40	212.97	2	51	123	3 27	71.5	
1	63	55.57	2	60	100.54	3	57	71.71
1	74	92.67	2	79	106.68	3	56	113.2
1	63	231.69	2	75	86.4	3	52	111.38
1	70	72.56	2	57	128.28	3	18	73.29
1	43	75.77	2	47	204.63	3	63	65.71
1	78	199.88	2	47	98.58	3	69	198.33
1	35	77.48	2	50	92.81	3	73	79.59
1	50	81.96	2	15	90.1	3	54	206.52
1	27	98.71	2	17	113.25	3	63	85
1	52	170.22	2	24	59.28	3	73	100.49
1	77	102.96	2	30	73.69	3	50	79.73

1	57	80.72	2	66	74.9	3	80	98.39
1	13	74.19	2	27	58.39	3	64	128.04
1	14	77.12	2	21	102.05	3	25	65.77
1	42	68.24	2	19	72.84	3	27	161.57
1	50	220.36	2	71	170.95	3	29	86.55
1	71	187.88	2	16	87.98	3	41	134.29
1	72	92.59	2	61	123.36	3	33	73.54
1	41	80.42	2	46	109.22	3	31	95.62
1	29	62.47	2	19	99.14	3	58	100.42
1	53	81.76	2	21	59.15	3	52	155.86
1	72	226.88	2	50	124.45	3	30	66.01
1	40	80.25	2	55	56.42	3	47	86.99
1	55	203.81	2	70	74.04	3	31	60.06
1	73	86.57	2	35	145.23	3	47	104.7
1	58	68.84	2	80	100.8	3	36	98.03
1	38	158.48	2	54	85.22	3	78	92.9
1	34	90.15	2	55	89.17	3	60	114.34
1	64	211.35	2	79	116.67	3	56	227.04
1	40	74.65	2	66	142.12	3	65	84.47
1	66	152.02	2	37	69.17	3	39	80.63
1	37	60.61	2	22	58.38	3	60	96
1	41	89.14	2	60	86.34	3	26	89.28
1	69	78.48	2	39	95.44	3	78	126.39
1	57	76.28	2	57	78.46	3	32	92.08
1	73	90.01	2	82	85.29	3	78	243.73
1	52	107.84	2	41	69.52	3	44	127.21
1	58	227.81	2	72	95.2	3	50	160.94
1	59	60.35	2	21	78.52	3	58	127.32
1	67	58.51	2	51	114.89	3	28	75.5
1	71	96.04	2	82	82.21	3	55	168.06
1	34	83.53	2	79	93.89	3	73	62.44
1	42	145.5	2	31	65.47	3	38	84.31
1	73	101.25	2	27	63.53	3	20	96.69
1	47	95.07	2	53	63.78	3	71	105.55
1	37	87.16	2	57	111.64	3	21	88.29
1	50	89.95	2	34	113.01	3	71	215.72
1	51	173.96	2	51	56.48	3	48	173.14
1	64	63.32	2	19	96.02	3	28	94.15
1	37	91.68	2	30	56.07	3	59	201.45
1	48	106.74	2	67	254.63	3	69	111.48
1	46	85.81	2	81	246.34	3	46	56.89
1	41	89.88	2	66	93.34	3	60	83.16
1	67	62.66	2	38	162.3	3	53	87.62
1	71	101.13	2	47	110.25	3	23	95.66
1	35	83.27	2	27	69.7	3	50	68.41
1	72	99.73	2	27	112.98	3	47	73.48
1	56	86.36	2	50	75.88	3	18	101.09
1	33	80.21	2	58	109.56	3	42	69.99
1	79	207.95	2	62	91.65	3	29	102.4
1	58	65.66	2	50	121.14	3	52	87.26
1	77	167.59	2	19	106.56	3	52	67.5
1	11	144.08	2	30	88.65	3	61	106.01
1	82	214.42	2	18	103.94	3	25	103.15
1	36	65.87	2	67	68.61	3	54	227.74
1	78	74.7	2	47	64.99	3	38	100.05
1	54	81.44	2	71	66.12	3	45	103.94

1	14	70.54	2	22	73.4	3	39	74.29
1	66	203.44	2	27	93.55	3	34	103.43
1	34	59.91	2	18	98.1	3	50	79.79
1	43	97.55	2	42	89.96	3	31	89.11
1	28	116.02	2	36	76.93	3	58	99.83
1	54	75.52	2	69	113.1	3	23	100.54
1	73	82.15	2	59	57.26	3	27	110.87
1	26	200.28	2	28	56.47	3	59	182.9
1	12	63.98	2	33	86.97	3	43	110.42
1	78	145.03	2	47	195.04	3	54	92.34
1	60	70.52	2	28	106.68	3	38	217.55
1	67	80.18	2	67	82.31	3	32	160.64
1	45	106.83	2	55	83.09	3	42	84.6
1	55	84.44	2	37	78.42	3	40	158.93
1	25	85.96	2	45	79.47	3	47	57.76
1	54	209.5	2	28	95.52	3	56	82.12
1	48	57.43	2	46	138.07	3	20	88.47
1	73	60.98	2	45	86.99	3	80	82.41
1	51	219.92	2	21	112.07	3	50	93.51
1	79	79.16	2	46	218.65	3	76	58.65
1	69	99.68	2	52	69.3	3	43	142.12
1	78	79.55	2	32	80.28	3	70	118.81
1	60	87.86	2	48	99.29	3	24	84.16
1	21	120.94	2	18	140.52	3	41	78.74
1	58	105.74	2	34	120.06	3	29	94.69
1	42	110.68	2	59	224.71	3	35	56.12
1	80	213.33	2	35	82.39	3	75	198.79
1	45	172.33	2	23	115.98	3	38	69.88
1	70	93.02	2	79	65.59	3	34	71.94
1	79	97.81	2	43	101.65	3	40	83.3
1	78	169.43	2	43	210.94	3	33	97.87
1	46	85.62	2	62	77.92	3	39	91.85
1	66	82.91	2	31	62.68	3	33	105.19
1	63	153.6	2	42	55.22	3	65	96.81
1	33	81	2	20	78.94	3	46	111.78
1	23	84.46	2	23	79.33	3	56	102.97
1	81	101.32	2	33	79.91	3	63	239.95
1	69	208.2	2	33	121.19	3	23	61.96
1	48	77.99	2	41	107.18	3	77	60.77
1	80	235.54	2	79	90.77	3	26	107.59
1	40	217	2	23	90.84	3	17	87.72
1	59	57.47	2	20	112.08	3	75	70.73
1	54	99.83	2	20	96.2	3	53	95.47
1	44	94.76	2	53	94.89	3	55	64.92
1	38	101.43	2	79	239.52	3	51	95.98
1	52	72.71	2	56	124.16	3	39	102.51
1	67	94.45	2	32	93.68	3	54	97.61
1	61	84.12	2	53	78.73	3	26	81.94
1	30	69.67	2	33	76.66	3	51	93.58
1	65	77.46	2	15	61.61	3	42	107.83
1	46	75.28	2	80	210.96	3	61	99.35
1	36	90.22	2	71	195.25	3	35	80.76
1	59	90.04	2	45	81.02	3	45	75.25
1	48	255.17	2	22	94.33	3	49	56.37
1	43	87.82	2	63	78.43	3	39	90.31
1	27	94.19	2	49	88.13	3	30	81.25

1	64	69.28	2	38	69.34	3	57	87.1
1	50	110.18	2	63	66.13	3	67	85.48
1	58	59.68	2	20	96.58	3	33	90.68
1	26	94.24	2	34	94.15	3	34	79.8
1	80	62.62	2	46	127.75	3	62	75.78
1	46	107.59	2	28	141.15	3	39	82.85
1	78	143.47	2	62	88.63	3	77	80.92
1	58	78.93	2	66	108.03	3	76	267.61
1	62	80.72	2	31	100.39	3	32	83.13
1	50	67.02	2	80	72.61	3	29	79.27
1	29	77.55	2	50	74.72	3	53	113.21
1	49	125.3	2	73	88.34	3	42	73.37
1	59	87.81	2	60	101.34	3	61	115.42
1	63	222.66	2	44	119.01	3	43	104.55
1	58	73.36	2	79	71.98	3	45	82.02
1	79	74.35	2	65	167.31	3	57	63.72
1	82	79.96	2	44	87.49	3	36	161
1	60	99.23	2	54	98.74	3	32	64.02
1	48	68.13	2	25	92.82	3	73	231.43
1	24	93.76	2	22	63.37	3	24	73.78
1	72	99.76	2	61	74.82	3	68	82.85
1	50	121.17	2	45	97.12	3	56	82.4
1	51	107.42	2	55	82.81	3	39	84.18
1	23	77.53	2	21	134.45	3	44	69.23
1	33	106.08	2	50	85.82	3	24	103.45
1	76	202.21	2	73	189.45	3	54	90.3
1	46	80.01	2	55	206.4	3	22	87.25
1	46	58.42	2	57	67.97	3	24	88.38
1	73	67.38	2	77	71.7	3	26	73.72
1	68	85.29	2	29	73.75	3	63	95.29
1	70	202.55	2	37	156.7	3	57	104.36
1	70	154.6	2	54	138.47	3	35	94.2
1	21	71.06	2	75	74.79	3	34	86.36
1	62	96.37	2	44	78.18	3	65	82.72
1	82	107.21	2	17	112.23	3	47	88.49
1	31	69.26	2	46	178.76	3	27	70.56
1	71	72.94	2	47	121.43	3	45	69.76
1	47	65.01	2	50	94.22	3	48	73.56
1	62	72.5	2	49	199.96	3	43	84.43
1	78	85.03	2	71	85.33	3	61	140.96
1	71	204.98	2	65	86.33	3	52	214.43
1	57	95.36	2	64	78.85	3	43	72.33
1	26	89.18	2	50	103.81	3	72	63.86
1	33	91.53	2	30	62.25	3	41	80.72
1	50	227.89	2	68	155.17	3	63	248.37
1	60	91.82	2	13	102.27	3	37	82.09
1	55	202.67	2	54	108.34	3	61	81.25
1	76	221.8	2	40	56.07	3	57	215.92
1	70	147.12	2	17	85.07	3	33	84.4
1	79	103.21	2	64	108.1	3	52	62.54
1	36	67.29	2	39	205.77	3	28	76.81
1	52	87.51	2	78	119.03	3	56	97.37
1	23	105.28	2	24	89.68	3	79	83.61
1	10	83.37	2	37	98.12	3	24	200.14
1	60	103.17	2	59	65.82	3	44	65.41
1	52	110.36	2	55	64.45	3	71	67.06

1	41	65.4	2	14	91.85	3	59	90.06
1	22	139.48	2	75	206.33	3	32	119.9
1	49	67.68	2	37	74.29	3	24	76.42
1	72	104.04	2	45	100.84	3	47	131.19
1	63	91.36	2	52	107.29	3	61	79.89
1	81	59.93	2	82	227.28	3	57	83.64
1	58	160.87	2	50	93.47	3	66	112.77
1	26	143.33	2	41	80.77	3	16	63.63
1	54	114.61	2	11	73.66	3	37	100.22
1	32	56.08	2	56	102.37	3	26	138.02
1	42	157.67	2	57	169.97	3	29	105.73
1	48	116.2	2	76	84.21	3	52	97.37
1	54	220.26	2	53	124.16	3	46	162.24
1	65	82.83	2	47	93.55	3	44	100.08
1	69	102.48	2	44	99.34	3	20	84.07
1	16	95.38	2	24	120.77	3	80	125.89
1	75	108.72	2	52	126.34	3	27	65.12
1	52	75.77	2	63	93.24	3	39	88.18
1	82	80.96	2	78	154.75	3	48	124.64
1	36	74.14	2	22	62.81	3	82	101.57
1	68	215.33	2	79	79.53	3	36	71.32
1	33	88.5	2	49	96.85	3	61	111.94
1	57	90.77	2	74	251.99	3	30	104.77
1	80	94.96	2	62	78.99	3	53	216.88
1	46	66.59	2	50	68.8	3	34	99.23
1	70	90.49	2	21	107.98	3	20	66.55
1	62	92.99	2	22	135.64	3	44	105.49
1	67	65.51	2	13	92.65	3	75	60.6
1	49	63.16	2	68	222.29	3	38	162.72
1	31	87.23	2	80	213.11	3	28	73.27
1	65	223.9	2	25	58.48	3	31	87.81
1	47	93.18	2	39	87.33	3	57	142.31
1	56	82.25	2	35	102.34	3	31	94.96
1	54	85.81	2	71	151.3	3	69	59.31
1	78	78.29	2	41	80.28	3	51	76.1
1	76	207.96	2	60	201.01	3	52	116.21
1	54	109.27	2	68	95.4	3	46	111.1
1	76	70.29	2	23	65.9	3	57	108.61
1	66	205.01	2	41	104.36	3	55	67.02
1	79	64.44	2	43	102.5	3	25	125.98
1	25	111.65	2	27	78.05	3	37	72.09
1	53	90.65	2	35	89.11	3	45	55.47
1	15	113.57	2	82	58.3	3	19	65.79
1	71	91.85	2	53	78.68	3	53	60.77
1	75	91.85	2	75	98.91	3	50	89.18
1	61	72.01	2	27	73	3	50	68.09
1	36	74.63	2	44	76.3	3	35	93.6
1	46	102.27	2	77	238.53	3	64	57.42
1	79	57.77	2	54	207.79	3	52	118.46
1	34	81.54	2	38	196.2	3	40	70.07
1	66	57.17	2	55	231.76	3	53	101.81
1	61	66.46	2	54	77.52	3	50	101.85
1	82	84.78	2	25	93.51	3	26	85.92
1	58	83.93	2	61	102.54	3	54	68.6
1	34	112.54	2	71	93.6	3	66	72.53
1	23	75.25	2	65	58.87	3	31	116.85

72	124.38	2	42	83.14	3	23	82.53	
1	38	135.74	2	22	71.22	3	26	71.25
1	55	88.65	2	19	82.07	3	35	97.6
1	82	228.92	2	47	73	3	47	105.88
1	43	92.71	2	26	108.2	3	28	111.27
1	65	79.39	2	81	58.71	3	20	87.2
1	63	105.52	2	63	98.46	3	50	65.25
1	41	74.85	2	33	78.34	3	31	102.39
1	82	78	2	18	168.15	3	54	93.96
1	47	91.05	2	48	79.2	3	79	208.05
1	47	77.91	2	23	83.86	3	66	95.37
1	72	118.22	2	25	119.96	3	66	106.1
1	66	81.11	2	44	70.58	3	38	104.03
1	53	235.45	2	78	87.7	3	65	185.28
1	40	64.66	2	37	65.29	3	39	62.02
1	49	92.26	2	32	97.14	3	56	206.66
1	82	214.51	2	17	115.93	3	75	83.88
1	69	111.81	2	25	69.24	3	20	117.98
1	50	77.82	2	57	102.28	3	52	101.3
1	64	65.46	2	31	71.31	3	54	221.83
1	53	91.57	2	61	89.75	3	38	77.5
1	67	238.78	2	46	87.66	3	45	218.1
1	57	87.18	2	47	178.33	3	45	95.62
1	79	84.88	2	47	65.04	3	62	90.61
1	61	75.46	2	15	68.4	3	27	85.53
1	44	188.13	2	66	85.52	3	44	110.41
1	52	79.81	2	15	69.38	3	56	200.98
1	54	100.12	2	51	66.11	3	62	95.49
1	35	205.97	2	20	75.94	3	60	87.62
1	55	102.1	2	23	115.83	3	42	118.55
1	24	130	2	21	56.63	3	59	82.14
1	70	214.77	2	54	109.51	3	54	219.67
1	72	85.82	2	25	78.59	3	48	90.38
1	53	103.37	2	21	105.47	3	36	101.93
1	24	97.47	2	32	68.19	3	24	83.1
1	41	83.97	2	57	210	3	25	118.85
1	50	69.92	2	59	64.51	3	31	108.62
1	72	198.32	2	63	199.14	3	66	96.19
1	69	112.69	2	52	69.11	3	55	154.03
1	43	87.41	2	62	114.41	3	56	128.63
1	69	236.79	2	68	103.46	3	26	64.68
1	75	219.82	2	36	95.36	3	36	99.72
1	64	78.45	2	40	70.13	3	72	123.08
1	76	78.7	2	58	200.16	3	63	75
1	78	206.62	2	79	80.57	3	28	105.9
1	78	59.74	2	32	80.8	3	55	73.57
1	82	226.84	2	33	99.3	3	38	79.22
1	43	85.03	2	62	62.56	3	72	142.63
1	81	234.35	2	71	71.38	3	71	70.38
1	12	116.25	2	44	67.06	3	54	70.19
1	75	200.73	2	29	60.74	3	40	82.46
1	69	202.51	2	36	233.52	3	33	78.43
1	42	82.24	2	19	110.7	3	27	57.46
1	64	91.85	2	52	213.54	3	30	87.12
1	78	101.53	2	19	74.86	3	34	76.42
1	58	209.15	2	53	83.41	3	53	95.23

	75	70.22	2	61	73.36	3	31	69.72
1	59	78.28	2	11	105.73	3	24	123.89
1	55	76.7	2	69	63.19	3	55	94.75
1	39	103.12	2	78	227.16	3	68	76.09
1	44	74.15	2	38	137.94	3	31	131.42
1	13	63.22	2	39	60.6	3	49	76.78
1	65	99.12	2	51	93.67	3	50	213.43
1	54	94.11	2	37	79.56	3	65	248.24
1	71	99.76	2	16	122.46	3	43	57.79
1	56	87.5	2	39	92.32	3	18	101.12
1	66	239.21	2	50	59.89	3	32	110.33
1	80	196.08	2	53	84.9	3	55	80.35
1	78	93.85	2	56	94.07	3	62	86.4
1	12	70.07	2	16	111.93	3	29	63.9
1	37	72.08	2	82	211.88	3	61	84.43
1	45	85.64	2	47	56.67	3	47	63.98
1	23	62	2	63	96.77	3	53	74.66
1	56	122.73	2	76	225.6	3	70	77.77
1	14	69.74	2	81	210.23	3	60	200.66
1	64	81.68	2	39	92.82	3	54	70.43
1	60	78.26	2	59	234.82	3	38	118.55
1	32	58.24	2	34	125.29	3	37	232.29
1	81	217.94	2	13	70.93	3	60	100.2
1	65	216.64	2	54	89.93	3	73	88.98
1	45	74.28	2	26	168.15	3	39	254.95
1	78	208.85	2	56	224.63	3	26	80.94
1	31	65.7	2	60	84.14	3	51	69.94
1	61	68.17	2	35	82.81	3	40	101.06
1	73	198.3	2	48	110.53	3	32	85.18
1	32	101.13	2	12	85.04	3	16	80.55
1	61	116.78	2	13	99.44	3	27	55.93
1	24	71.63	2	78	58.66	3	38	83.8
1	39	87.79	2	21	208.17	3	35	103.08
1	55	99.64	2	36	146.61	3	31	78.8
1	38	218.6	2	48	84.56	3	40	86.78
1	59	83.6	2	14	103.44	3	78	101.76
1	41	102.39	2	60	185.31	3	51	95.19
1	51	95.7	2	56	62.6	3	54	89.41
1	57	84.79	2	52	85.66	3	28	77.99
1	28	134.12	2	64	187.87	3	47	101.81
1	39	125.11	2	12	213.87	3	63	60.17
1	41	92.14	2	42	79.99	3	55	61.42
1	72	217.79	2	78	84.49	3	78	100.54
1	31	77.01	2	18	89.61	3	19	80.54
1	61	97.86	2	68	93.61	3	82	82.63
1	18	112.33	2	51	105.63	3	32	92.75
1	38	103.58	2	43	82.84	3	25	108.82
1	64	76.12	2	45	115.23	3	52	116.62
1	74	158.9	2	29	72.52	3	35	145.18
1	54	247.97	2	61	194.53	3	51	81.38
1	74	68.18	2	47	140.39	3	56	91.89
1	41	186.54	2	68	95.82	3	22	102
1	69	91.65	2	76	204.05	3	25	68.07
1	57	98.07	2	31	59.63	3	64	82.62
1	61	71.4	2	32	199.18	3	46	60.32
1	74	82.27	2	44	91.21	3	53	94.14

1	51	87.15	2	37	217.11	3	57	90.31
1	10	82.59	2	54	222.46	3	76	223.64
1	34	89.31	2	56	82.44	3	26	59.67
1	82	111.81	2	62	187.52	3	33	90.73
1	78	221.06	2	27	83.26	3	44	68.42
1	55	69.97	2	20	76.63	3	49	58.19
1	51	77.07	2	21	65.09	3	32	97.95
1	31	70.51	2	38	237.74	3	21	92.87
1	69	89.06	2	51	78.29	3	20	77.96
1	78	208.99	2	67	92.73	3	68	222.58
1	54	110.38	2	45	90.35	3	39	73.07
1	81	59.11	2	43	77.86	3	28	73.2
1	30	58.89	2	80	71.88	3	32	102.87
1	79	72.04	2	16	59.99	3	59	81.21
1	82	222.52	2	58	90.26	3	47	110.14
1	46	114.46	2	50	91.08	3	24	114.54
1	45	115.52	2	67	82.09	3	29	73.63
1	81	71.18	2	36	100.33	3	41	62.93
1	44	87.71	2	57	89.81	3	24	187.99
1	43	207.37	2	28	75.53	3	60	111.79
1	55	71.79	2	41	121.44	3	55	59.36
1	50	103.72	2	81	83.52	3	70	240.69
1	27	61.8	2	31	75.27	3	56	139.87
1	17	92.97	2	42	80.24	3	46	59.74
1	20	103.65	2	70	62.67	3	53	109.09
1	72	103.78	2	33	98.74	3	23	165.36
1	31	80.57	2	25	65.95	3	81	126.34
1	81	168.68	2	47	62.47	3	37	107.06
1	39	57.38	2	14	69.82	3	64	65.63
1	52	81.32	2	72	74.36	3	17	63.82
1	59	253.93	2	61	153.38	3	36	57.83
1	69	78.11	2	15	87.1	3	53	142.64
1	39	117.03	2	53	84.85	3	45	71.4
1	64	75.13	2	31	106.13	3	32	83.01
1	54	98.44	2	39	122.91	3	22	74.99
1	67	101.46	2	13	77.63	3	41	65.67
1	28	100.8	2	26	70.61	3	48	110.18
1	31	56.48	2	44	103.44	3	19	95.18
1	65	179.67	2	25	75.5	3	36	66.55
1	80	230.74	2	41	98.85	3	43	100.88
1	54	216.19	2	25	65.6	3	49	206.53
1	63	74.39	2	22	96.18	3	37	103.66
1	28	87.91	2	71	186.95	3	47	99.36
1	43	78.98	2	54	65.69	3	65	95.44
1	52	86.85	2	80	90.43	3	62	110.84
1	61	107.33	2	53	198.24	3	24	83.1
1	66	196.58	2	35	90.51	3	54	97.99
1	16	89.14	2	21	93	3	60	84.54
1	66	189.82	2	48	83.34	3	39	243.52
1	40	106.76	2	20	80.08	3	34	69.06
1	64	95.87	2	41	91.46	3	54	72.96
1	34	70.87	2	54	100.29	3	72	238.27
1	18	99.01	2	56	87.95	3	40	93.2
1	71	105.72	2	45	107.29	3	53	98.61
1	42	87.4	2	57	84.18	3	28	86.61
1	51	86.95	2	50	82.37	3	62	103.69

1	78	83.2	2	35	74.55	3	44	84.07
1	74	88.62	2	64	113.68	3	49	77.93
1	59	81.51	2	42	107.91	3	30	86.21
1	82	115.71	2	62	83.85	3	65	81.06
1	62	261.67	2	43	72.13	3	31	215.07
1	28	256.74	2	52	94.98	3	58	225.35
1	63	60.67	2	59	93.9	3	54	76.04
1	14	126.57	2	15	121.6	3	44	73.87
1	17	81.51	2	73	82.13	3	44	133.24
1	54	106.52	2	19	73.33	3	38	160.76
1	43	89.73	2	47	100.41	3	53	175.92
1	52	208.39	2	41	107.5	3	40	191.15
1	60	227.23	2	12	58.14	3	25	92.06
1	62	117.63	2	74	65.28	3	35	58.72
1	51	76.35	2	26	114.18	3	52	104
1	10	69.2	2	47	101.99	3	44	72.03
1	33	84.68	2	41	94.47	3	67	97.04
1	54	106.53	2	57	116.93	3	26	100.85
1	49	58.42	2	51	219.96	3	45	95.02
1	69	83.55	2	15	75.77	3	40	83.94

```

;
*;
Proc Print Data = Table1331;
*;
Proc GLM Data = Table1331; /* Performs an ANOVA for the Table1331 data */
Class A;
Model Y = A;
*;
Proc GLM Data = Table1331; /* Performs a Simple Linear Regression of Y on X */
Model Y = X;
*;
Proc Sort Data = Table1331;
By A;
Proc GLM Data = Table1331; /* Performs a Simple Linear Regression of Y on X
within each Level of A */
Model Y = X;
By A;
*;
Proc GLM Data = Table1331; /* Tests the Homogeneity of the Regression Slopes */
Class A;
Model Y = A X A*X;
*;
Proc GLM Data = Table1331; /* Performs an ANCOVA for the Table1331 data */
Class A;
Model Y = A X;
Means A;
LSMeans A / StdErr PDiff Adjust = Tukey;
*;
*;
Run;
*;
ODS Graphics Off;
ods pdf close;

```

```
*;  
Quit;
```