

AI-MAJOR-MAY-AI-05-MLB3

NAME: SANYAM JAIN

Take any Dataset of your choice ,perform EDA(Exploratory Data Analysis) and apply asuitable Classifier,Regressor or Clusterer and calculate the accuracy of the model.

Exploratory Data Analysis USING AN REGRESSION –

DATASET:

age	sex	bmi	children	smoker	region	charges
19	female	27.9	0	yes	southwest	16884.92
18	male	33.77	1	no	southeast	1725.552
28	male	33	3	no	southeast	4449.462
33	male	22.705	0	no	northwest	21984.47
32	male	28.88	0	no	northwest	3866.855
31	female	25.74	0	no	southeast	3756.622
46	female	33.44	1	no	southeast	8240.59
37	female	27.74	3	no	northwest	7281.506
37	male	29.83	2	no	northeast	6406.411
60	female	25.84	0	no	northwest	28923.14
25	male	26.22	0	no	northeast	2721.321
62	female	26.29	0	yes	southeast	27808.73
23	male	34.4	0	no	southwest	1826.843
56	female	39.82	0	no	southeast	11090.72
27	male	42.13	0	yes	southeast	39611.76
19	male	24.6	1	no	southwest	1837.237

						10797.3
52	female	30.78	1	no	northeast	4
						2395.17
23	male	23.845	0	no	northeast	2
					southwes	10602.3
56	male	40.3	0	no	t	9
					southwes	36837.4
30	male	35.3	0	yes	t	7
						13228.8
60	female	36.005	0	no	northeast	5
					southwes	4149.73
30	female	32.4	1	no	t	6
						1137.01
18	male	34.1	0	no	southeast	1
						37701.8
34	female	31.92	1	yes	northeast	8
					northwes	6203.90
37	male	28.025	2	no	t	2
						14001.1
59	female	27.72	3	no	southeast	3
						14451.8
63	female	23.085	0	no	northeast	4
					northwes	12268.6
55	female	32.775	2	no	t	3
					northwes	2775.19
23	male	17.385	1	no	t	2
					southwes	
31	male	36.3	2	yes	t	38711
					southwes	35585.5
22	male	35.6	0	yes	t	8
18	female	26.315	0	no	northeast	2198.19
					southwes	4687.79
19	female	28.6	5	no	t	7
					northwes	
63	male	28.31	0	no	t	13770.1
					southwes	51194.5
28	male	36.4	1	yes	t	6
					northwes	1625.43
19	male	20.425	0	no	t	4
					northwes	15612.1
62	female	32.965	3	no	t	9
					southwes	
26	male	20.8	0	no	t	2302.3
						39774.2
35	male	36.67	1	yes	northeast	8
					southwes	48173.3
60	male	39.9	0	yes	t	6
						3046.06
24	female	26.6	0	no	northeast	2
						4949.75
31	female	36.63	2	no	southeast	9

						6272.47
41	male	21.78	1	no	southeast	7
						6313.75
37	female	30.8	2	no	southeast	9
						6079.67
38	male	37.05	1	no	northeast	2
					southwes	20630.2
55	male	37.3	0	no	t	8
						3393.35
18	female	38.665	2	no	northeast	6
					northwes	3556.92
28	female	34.77	0	no	t	2
60	female	24.53	0	no	southeast	12629.9
						38709.1
36	male	35.2	1	yes	southeast	8
						2211.13
18	female	35.625	0	no	northeast	1
					northwes	3579.82
21	female	33.63	2	no	t	9
					southwes	23568.2
48	male	28	1	yes	t	7
						37742.5
36	male	34.43	0	yes	southeast	8
					northwes	8059.67
40	female	28.69	3	no	t	9
					northwes	47496.4
58	male	36.955	2	yes	t	9
						13607.3
58	female	31.825	2	no	northeast	7
						34303.1
18	male	31.68	2	yes	southeast	7
						23244.7
53	female	22.88	1	yes	southeast	9
					northwes	5989.52
34	female	37.335	2	no	t	4
						8606.21
43	male	27.36	3	no	northeast	7
						4504.66
25	male	33.66	4	no	southeast	2
					northwes	30166.6
64	male	24.7	1	no	t	2
					northwes	4133.64
28	female	25.935	1	no	t	2
					northwes	14711.7
20	female	22.42	0	yes	t	4
					southwes	1743.21
19	female	28.9	0	no	t	4
					southwes	14235.0
61	female	39.1	2	no	t	7
					northwes	6389.37
40	male	26.315	1	no	t	8

						5920.10
40	female	36.19	0	no	southeast	4
						17663.1
28	male	23.98	3	yes	southeast	4
						16577.7
27	female	24.75	0	yes	southeast	8
						6799.45
31	male	28.5	5	no	northeast	8
					southwes	11741.7
53	female	28.1	3	no	t	3
						11946.6
58	male	32.01	1	no	southeast	3
					southwes	7726.85
44	male	27.4	2	no	t	4
					northwes	11356.6
57	male	34.01	0	no	t	6
						3947.41
29	female	29.59	1	no	southeast	3
21	male	35.53	0	no	southeast	1532.47
						2755.02
22	female	39.805	0	no	northeast	1
					northwes	6571.02
41	female	32.965	0	no	t	4
						4441.21
31	male	26.885	1	no	northeast	3
						7935.29
45	female	38.285	0	no	northeast	1
						37165.1
22	male	37.62	1	yes	southeast	6
					northwes	11033.6
48	female	41.23	4	no	t	6
					southwes	39836.5
37	female	34.8	2	yes	t	2
					northwes	21098.5
45	male	22.895	2	yes	t	5
					northwes	43578.9
57	female	31.16	0	yes	t	4
					southwes	11073.1
56	female	27.2	0	no	t	8
					northwes	8026.66
46	female	27.74	0	no	t	7
					northwes	11082.5
55	female	26.98	0	no	t	8
						2026.97
21	female	39.49	0	no	southeast	4
					northwes	10942.1
53	female	24.795	1	no	t	3
						30184.9
59	male	29.83	3	yes	northeast	4
					northwes	5729.00
35	male	34.77	2	no	t	5

64	female	31.3	2	yes	southwes t	47291.0 6 3766.88
28	female	37.62	1	no	southeast	4
54	female	30.8	3	no	southwes t	12105.3 2 10226.2
55	male	38.28	0	no	southeast	8 22412.6
56	male	19.95	0	yes	northeast southwes	5
38	male	19.3	0	yes	t southwes	15820.7 6186.12
41	female	31.6	0	no	t	7 3645.08
30	male	25.46	0	no	northeast	9 21344.8
18	female	30.115	0	no	northeast	5 30942.1
61	female	29.92	3	yes	southeast southwes	9 5003.85
34	female	27.5	1	no	t northwes	3 17560.3
20	male	28.025	1	yes	t southwes	8 2331.51
19	female	28.4	1	no	t northwes	9 3877.30
26	male	30.875	2	no	t	4
29	male	27.94	0	no	southeast	2867.12 47055.5
63	male	35.09	0	yes	southeast northwes	3 10825.2
54	male	33.63	1	no	t southwes	5 11881.3
55	female	29.7	2	no	t southwes	6 4646.75
37	male	30.8	0	no	t northwes	9 2404.73
21	female	35.72	0	no	t	4 11488.3
52	male	32.205	3	no	northeast	2
60	male	28.595	0	no	northeast	30260 11381.3
58	male	49.06	0	no	southeast	3 19107.7
29	female	27.94	1	yes	southeast	8 8601.32
49	female	27.17	0	no	southeast northwes	9 6686.43
37	female	23.37	2	no	t	1

44	male	37.1	2	no	southwes t	7740.33 7 1705.62
18	male	23.75	0	no	northeast	5
20	female	28.975	0	no	northwes t	2257.47 5 39556.4
44	male	31.35	1	yes	northeast	9
47	female	33.915	3	no	northwes t	10115.0 1 3385.39
26	female	28.785	0	no	northeast	9
19	female	28.3	0	yes	southwes t	17081.0 8
52	female	37.4	0	no	southwes t	9634.53 8
32	female	17.765	2	yes	northwes t	32734.1 9
38	male	34.7	2	no	southwes t	6082.40 5 12815.4
59	female	26.505	0	no	northeast	4 13616.3
61	female	22.04	0	no	northeast	6
53	female	35.9	2	no	southwes t	11163.5 7
19	male	25.555	0	no	northwes t	1632.56 4 2457.21
20	female	28.785	0	no	northeast	1 2155.68
22	female	28.05	0	no	southeast	2
19	male	34.1	0	no	southwes t	1261.44 2
22	male	25.175	0	no	northwes t	2045.68 5 27322.7
54	female	31.9	3	no	southeast	3
22	female	36	0	no	southwes t	2166.73 2
34	male	22.42	2	no	northeast	27375.9 3490.54
26	male	32.49	1	no	northeast	9
34	male	25.3	2	yes	southeast	18972.5
29	male	29.735	2	no	northwes t	18157.8 8
30	male	28.69	3	yes	northwes t	20745.9 9 5138.25
29	female	38.83	3	no	southeast	7

46	male	30.495	3	yes	northwes t	40720.5 5
51	female	37.73	1	no	southeast	9877.60 8
53	female	37.43	1	no	northwes t	10959.6 9
19	male	28.4	1	no	southwes t	1842.51 9
35	male	24.13	1	no	northwes t	5125.21 6
48	male	29.7	0	no	southeast	7789.63 5
32	female	37.145	3	no	northeast	6334.34 4
42	female	23.37	0	yes	northeast	19964.7 5
40	female	25.46	1	no	northeast	7077.18 9
44	male	39.52	0	no	northwes t	6948.70 1
48	male	24.42	0	yes	southeast	21223.6 8
18	male	25.175	0	yes	northeast	15518.1 8
30	male	35.53	0	yes	southeast	36950.2 6
50	female	27.83	3	no	southeast	19749.3 8
42	female	26.6	0	yes	northwes t	21348.7 1
18	female	36.85	0	yes	southeast	36149.4 8
54	male	39.6	1	no	southwes t	10450.5 5
32	female	29.8	2	no	southwes t	5152.13 4
37	male	29.64	0	no	northwes t	5028.14 7
47	male	28.215	4	no	northeast	10407.0 9
20	female	37	5	no	southwes t	4830.63 6128.79
32	female	33.155	3	no	northwes t	7
19	female	31.825	1	no	northwes t	2719.28 4827.90
27	male	18.905	3	no	northeast	5 13405.3
63	male	41.47	0	no	southeast	9

49	male	30.3	0	no	southwes t	8116.68 1694.79
18	male	15.96	0	no	northeast	6
35	female	34.8	1	no	southwes t	5246.04 7
24	female	33.345	0	no	northwes t	2855.43 8
63	female	37.7	0	yes	southwes t	48824.4 5
38	male	27.835	2	no	northwes t	6455.86 3
54	male	29.2	1	no	southwes t	10436.1 8823.27
46	female	28.9	2	no	t	9
41	female	33.155	3	no	northeast	8538.28 8
58	male	28.595	0	no	northwes t	11735.8 8
18	female	38.28	0	no	t	1631.82
22	male	19.95	3	no	southeast	1 4005.42
44	female	26.41	0	no	northeast	3
44	male	30.69	2	no	northwes t	7419.47 8
36	male	41.895	3	yes	t	7731.42
26	female	29.92	2	no	southeast	7
30	female	30.9	3	no	southwes	43753.3
41	female	32.2	1	no	t	4
29	female	32.11	2	no	northeast	3981.97
61	male	31.57	0	no	southeast	7
36	female	26.2	0	no	southwes	5325.65
25	male	25.74	0	no	t	1
56	female	26.6	1	no	southwes	6775.96
18	male	34.43	0	no	t	1
19	male	30.59	0	no	northwes	4922.91
39	female	32.8	0	no	t	6
						12557.6
					southeast	1
					southwes	4883.86
					t	6
						2137.65
					southeast	4
					northwes	12044.3
					t	4
					southeast	1137.47
					northwes	1639.56
					t	3
					southwes	5649.71
					t	5

						8516.82
45	female	28.6	2	no	southeast	9
					northwes	9644.25
51	female	18.05	0	no	t	3
						14901.5
64	female	39.33	0	no	northeast	2
					northwes	2130.67
19	female	32.11	0	no	t	6
						8871.15
48	female	32.23	1	no	southeast	2
					northwes	13012.2
60	female	24.035	0	no	t	1
27	female	36.08	0	yes	southeast	37133.9
					southwes	7147.10
46	male	22.3	0	no	t	5
						4337.73
28	female	28.88	1	no	northeast	5
59	male	26.4	0	no	southeast	11743.3
						20984.0
35	male	27.74	2	yes	northeast	9
					southwes	13880.9
63	female	31.8	0	no	t	5
40	male	41.23	1	no	northeast	6610.11
					southwes	
20	male	33	1	no	t	1980.07
					northwes	8162.71
40	male	30.875	4	no	t	6
					northwes	3537.70
24	male	28.5	2	no	t	3
						5002.78
34	female	26.73	1	no	southeast	3
					southwes	8520.02
45	female	30.9	2	no	t	6
					southwes	7371.77
41	female	37.1	2	no	t	2
					northwes	10355.6
53	female	26.6	0	no	t	4
						2483.73
27	male	23.1	0	no	southeast	6
						3392.97
26	female	29.92	1	no	southeast	7
						25081.7
24	female	23.21	0	no	southeast	7
					southwes	5012.47
34	female	33.7	1	no	t	1
						10564.8
53	female	33.25	0	no	northeast	8
					southwes	5253.52
32	male	30.8	3	no	t	4
					southwes	34779.6
19	male	34.8	0	yes	t	2

						19515.5
42	male	24.64	0	yes	southeast	4
						11987.1
55	male	33.88	3	no	southeast	7
						2689.49
28	male	38.06	0	no	southeast	5
						24227.3
58	female	41.91	0	no	southeast	4
						7358.17
41	female	31.635	1	no	northeast	6
						9225.25
47	male	25.46	2	no	northeast	6
					northwes	7443.64
42	female	36.195	1	no	t	3
						14001.2
59	female	27.83	3	no	southeast	9
					southwes	1727.78
19	female	17.8	0	no	t	5
					southwes	12333.8
59	male	27.5	1	no	t	3
					northwes	6710.19
39	male	24.51	2	no	t	2
						19444.2
40	female	22.22	2	yes	southeast	7
						1615.76
18	female	26.73	0	no	southeast	7
						4463.20
31	male	38.39	2	no	southeast	5
					northwes	17352.6
19	male	29.07	0	yes	t	8
						7152.67
44	male	38.06	1	no	southeast	1
						38511.6
23	female	36.67	2	yes	northeast	3
						5354.07
33	female	22.135	1	no	northeast	5
					southwes	35160.1
55	female	26.8	1	no	t	3
					southwes	7196.86
40	male	35.3	3	no	t	7
						29523.1
63	female	27.74	0	yes	northeast	7
					northwes	24476.4
54	male	30.02	0	no	t	8
60	female	38.06	0	no	southeast	12648.7
						1986.93
24	male	35.86	0	no	southeast	3
					southwes	1832.09
19	male	20.9	1	no	t	4
						4040.55
29	male	28.975	1	no	northeast	8

						12829.4
18	male	17.29	2	yes	northeast	6
					southwes	47305.3
63	female	32.2	2	yes	t	1
						44260.7
54	male	34.21	2	yes	southeast	5
					southwes	4260.74
27	male	30.3	3	no	t	4
						41097.1
50	male	31.825	0	yes	northeast	6
						13047.3
55	female	25.365	3	no	northeast	3
					northwes	43921.1
56	male	33.63	0	yes	t	8
						5400.98
38	female	40.15	0	no	southeast	1
					northwes	
51	male	24.415	4	no	t	11520.1
					northwes	33750.2
19	male	31.92	0	yes	t	9
					southwes	11837.1
58	female	25.2	0	no	t	6
						17085.2
20	female	26.84	1	yes	southeast	7
						24869.8
52	male	24.32	3	yes	northeast	4
					northwes	36219.4
19	male	36.955	0	yes	t	1
53	female	38.06	3	no	southeast	20463
						46151.1
46	male	42.35	3	yes	southeast	2
						17179.5
40	male	19.8	1	yes	southeast	2
						14590.6
59	female	32.395	3	no	northeast	3
					southwes	7441.05
45	male	30.2	1	no	t	3
						9282.48
49	male	25.84	1	no	northeast	1
						1719.43
18	male	29.37	1	no	southeast	6
					southwes	42856.8
50	male	34.2	2	yes	t	4
					northwes	7265.70
41	male	37.05	2	no	t	3
						9617.66
50	male	27.455	1	no	northeast	2
					northwes	
25	male	27.55	0	no	t	2523.17
						9715.84
47	female	26.6	2	no	northeast	1

19	male	20.615	2	no	northwes	2803.69
					t	8
22	female	24.3	0	no	southwes	2150.46
					t	9
						12928.7
59	male	31.79	2	no	southeast	9
						9855.13
51	female	21.56	1	no	southeast	1
						22331.5
40	female	28.12	1	yes	northeast	7
						48549.1
54	male	40.565	3	yes	northeast	8
						4237.12
30	male	27.645	1	no	northeast	7
55	female	32.395	1	no	northeast	11879.1
					southwes	
52	female	31.2	0	no	t	9625.92
46	male	26.62	1	no	southeast	7742.11
						9432.92
46	female	48.07	2	no	northeast	5
					northwes	14256.1
63	female	26.22	0	no	t	9
						47896.7
59	female	36.765	1	yes	northeast	9
						25992.8
52	male	26.4	3	no	southeast	2
					southwes	3172.01
28	female	33.4	0	no	t	8
						20277.8
29	male	29.64	1	no	northeast	1
						42112.2
25	male	45.54	2	yes	southeast	4
						2156.75
22	female	28.82	0	no	southeast	2
					southwes	3906.12
25	male	26.8	3	no	t	7
						1704.56
18	male	22.99	0	no	northeast	8
					southwes	16297.8
19	male	27.7	0	yes	t	5
						21978.6
47	male	25.41	1	yes	southeast	8
					northwes	38746.3
31	male	34.39	3	yes	t	6
					northwes	9249.49
48	female	28.88	1	no	t	5
						6746.74
36	male	27.55	3	no	northeast	3
						24873.3
53	female	22.61	3	yes	northeast	8

						12265.5
56	female	37.51	2	no	southeast	1
						4349.46
28	female	33	2	no	southeast	2
					southwes	12646.2
57	female	38	2	no	t	1
					northwes	19442.3
29	male	33.345	2	no	t	5
					southwes	20177.6
28	female	27.5	2	no	t	7
						4151.02
30	female	33.33	1	no	southeast	9
						11944.5
58	male	34.865	0	no	northeast	9
					northwes	7749.15
41	female	33.06	2	no	t	6
					southwes	8444.47
50	male	26.6	0	no	t	4
					southwes	1737.37
19	female	24.7	0	no	t	6
						42124.5
43	male	35.97	3	yes	southeast	2
						8124.40
49	male	35.86	0	no	southeast	8
					southwes	34838.8
27	female	31.4	0	yes	t	7
52	male	33.25	0	no	northeast	9722.77
					northwes	8835.26
50	male	32.205	0	no	t	5
						10435.0
54	male	32.775	0	no	northeast	7
					northwes	7421.19
44	female	27.645	0	no	t	5
						4667.60
32	male	37.335	1	no	northeast	8
					northwes	4894.75
34	male	25.27	1	no	t	3
						24671.6
26	female	29.64	4	no	northeast	6
					southwes	35491.6
34	male	30.8	0	yes	t	4
57	male	40.945	0	no	northeast	11566.3
					southwes	2866.09
29	male	27.2	0	no	t	1
						6600.20
40	male	34.105	1	no	northeast	6
						3561.88
27	female	23.21	1	no	southeast	9
					northwes	
45	male	36.48	2	yes	t	42760.5

64	female	33.8	1	yes	southwes	47928.0
					t	3
					southwes	9144.56
52	male	36.7	0	no	t	5
						48517.5
61	female	36.385	1	yes	northeast	6
					northwes	24393.6
52	male	27.36	0	yes	t	2
					northwes	13429.0
61	female	31.16	0	no	t	4
						11658.3
56	female	28.785	0	no	northeast	8
						19144.5
43	female	35.72	2	no	northeast	8
					southwes	
64	male	34.5	0	no	t	13822.8
						12142.5
60	male	25.74	0	no	southeast	8
					northwes	13937.6
62	male	27.55	1	no	t	7
50	male	32.3	1	yes	northeast	41919.1
						8232.63
46	female	27.72	1	no	southeast	9
					southwes	18955.2
24	female	27.6	0	no	t	2
					northwes	
62	male	30.02	0	no	t	13352.1
						13217.0
60	female	27.55	0	no	northeast	9
						13981.8
63	male	36.765	0	no	northeast	5
						10977.2
49	female	41.47	4	no	southeast	1
						6184.29
34	female	29.26	3	no	southeast	9
33	male	35.75	2	no	southeast	4890
						8334.45
46	male	33.345	1	no	northeast	8
						5478.03
36	female	29.92	1	no	southeast	7
					northwes	1635.73
19	male	27.835	0	no	t	4
					northwes	11830.6
57	female	23.18	0	no	t	1
					southwes	8932.08
50	female	25.6	0	no	t	4
					southwes	3554.20
30	female	27.7	0	no	t	3
						12404.8
33	male	35.245	0	no	northeast	8

						14133.0
18	female	38.28	0	no	southeast	4
					southwes	24603.0
46	male	27.6	0	no	t	5
						8944.11
46	male	43.89	3	no	southeast	5
					northwes	9620.33
47	male	29.83	3	no	t	1
						1837.28
23	male	41.91	0	no	southeast	2
18	female	20.79	0	no	southeast	1607.51
						10043.2
48	female	32.3	2	no	northeast	5
					southwes	
35	male	30.5	1	no	t	4751.07
					southwes	13844.5
19	female	21.7	0	yes	t	1
					southwes	2597.77
21	female	26.4	1	no	t	9
21	female	21.89	2	no	southeast	3180.51
						9778.34
49	female	30.78	1	no	northeast	7
						13430.2
56	female	32.3	3	no	northeast	7
					northwes	8017.06
42	female	24.985	2	no	t	1
					northwes	8116.26
44	male	32.015	2	no	t	9
						3481.86
18	male	30.4	3	no	northeast	8
					northwes	13415.0
61	female	21.09	0	no	t	4
						12029.2
57	female	22.23	0	no	northeast	9
						7639.41
42	female	33.155	1	no	northeast	7
					southwes	36085.2
26	male	32.9	2	yes	t	2
						1391.52
20	male	33.33	0	no	southeast	9
					northwes	18033.9
23	female	28.31	0	yes	t	7
						21659.9
39	female	24.89	3	yes	northeast	3
						38126.2
24	male	40.15	0	yes	southeast	5
					northwes	16455.7
64	female	30.115	3	no	t	1
						27000.9
62	male	31.46	1	no	southeast	8

						15006.5
27	female	17.955	2	yes	northeast	8
						42303.6
55	male	30.685	0	yes	northeast	9
						20781.4
55	male	33	0	no	southeast	9
						5846.91
35	female	43.34	2	no	southeast	8
						8302.53
44	male	22.135	2	no	northeast	6
					southwes	1261.85
19	male	34.4	0	no	t	9
						11856.4
58	female	39.05	0	no	southeast	1
					northwes	30284.6
50	male	25.365	2	no	t	4
					northwes	3176.81
26	female	22.61	0	no	t	6
					northwes	
24	female	30.21	3	no	t	4618.08
						10736.8
48	male	35.625	4	no	northeast	7
					northwes	2138.07
19	female	37.43	0	no	t	1
						8964.06
48	male	31.445	1	no	northeast	1
49	male	31.35	1	no	northeast	9290.14
						9411.00
46	female	32.3	2	no	northeast	5
					northwes	7526.70
46	male	19.855	0	no	t	6
					southwes	8522.00
43	female	34.4	3	no	t	3
21	male	31.02	0	no	southeast	16586.5
					southwes	14988.4
64	male	25.6	2	no	t	3
						1631.66
18	female	38.17	0	no	southeast	8
					southwes	9264.79
51	female	20.6	0	no	t	7
47	male	47.52	1	no	southeast	8083.92
					northwes	14692.6
64	female	32.965	0	no	t	7
					northwes	10269.4
49	male	32.3	3	no	t	6
					southwes	3260.19
31	male	20.4	0	no	t	9
52	female	38.38	2	no	northeast	11396.9
						4185.09
33	female	24.31	0	no	southeast	8

47	female	23.6	1	no	southwes t	8539.67 1
38	male	21.12	3	no	southeast	6652.52 9
32	male	30.03	1	no	southeast northwes t	4074.45 4
19	male	17.48	0	no	t	1621.34 19594.8
44	female	20.235	1	yes	northeast	1 14455.6
26	female	17.195	2	yes	northeast southwes t	4 5080.09
25	male	23.9	5	no	t	6 2134.90
19	female	35.15	0	no	northwes t	2 7345.72
43	female	35.64	1	no	southeast	7 9140.95
52	male	34.1	0	no	southeast southwes t	1 18608.2
36	female	22.6	2	yes	t	6 14418.2
64	male	39.16	1	no	southeast northwes t	8 28950.4
63	female	26.98	0	yes	t	7 46889.2
64	male	33.88	0	yes	southeast	6 46599.1
61	male	35.86	0	yes	southeast	1 39125.3
40	male	32.775	1	yes	northeast	3 2727.39
25	male	30.59	0	no	northeast southwes t	5 8968.33
48	male	30.2	2	no	t	9788.86
45	male	24.31	5	no	southeast	6
38	female	27.265	1	no	northeast	6555.07 7323.73
18	female	29.165	0	no	northeast	5 3167.45
21	female	16.815	1	no	northeast northwes t	6 18804.7
27	female	30.4	3	no	t	5 23082.9
19	male	33.1	0	no	southwes t	6 4906.41
29	female	20.235	2	no	northwes t	5969.72
42	male	26.9	0	no	southwes t	3

60	female	30.5	0	no	southwes t	12638.2
31	male	28.595	1	no	northwes t	4243.59 13919.8
60	male	33.11	3	no	southeast	2 2254.79
22	male	31.73	0	no	northeast	7
35	male	28.9	3	no	southwes t	5926.84 6 12592.5
52	female	46.75	5	no	southeast	3 2897.32
26	male	29.45	0	no	northeast	4
31	female	32.68	1	no	northwes t	4738.26 8
33	female	33.5	0	yes	southwes t	37079.3 7 1149.39
18	male	43.01	0	no	southeast	6
59	female	36.52	1	no	southeast	28287.9
56	male	26.695	1	yes	northwes t	26109.3 3
45	female	33.1	0	no	southwes t	7345.08 4
60	male	29.64	0	no	northeast	12731
56	female	25.65	0	no	northwes t	11454.0 2
40	female	29.6	0	no	southwes t	5910.94 4
35	male	38.6	1	no	southwes t	4762.32 9
39	male	29.6	4	no	southwes t	7512.26 7
30	male	24.13	1	no	northwes t	4032.24 1
24	male	23.4	0	no	southwes t	1969.61 4
20	male	29.735	0	no	northwes t	1769.53 2 4686.38
32	male	46.53	2	no	southeast	9
59	male	37.4	0	no	southwes t	21797 11881.9
55	female	30.14	2	no	southeast	7
57	female	30.495	0	no	northwes t	11840.7 8
56	male	39.6	0	no	southwes t	10601.4 1
40	female	33	3	no	southeast	7682.67

						10381.4
49	female	36.63	3	no	southeast	8
					southwes	22144.0
42	male	30	0	yes	t	3
						15230.3
62	female	38.095	2	no	northeast	2
						11165.4
56	male	25.935	0	no	northeast	2
					northwes	1632.03
19	male	25.175	0	no	t	6
						19521.9
30	female	28.38	1	yes	southeast	7
					southwes	13224.6
60	female	28.7	1	no	t	9
					northwes	12643.3
56	female	33.82	2	no	t	8
						23288.9
28	female	24.32	1	no	northeast	3
						2201.09
18	female	24.09	1	no	southeast	7
						2497.03
27	male	32.67	0	no	southeast	8
						2203.47
18	female	30.115	0	no	northeast	2
					southwes	1744.46
19	female	29.8	0	no	t	5
						20878.7
47	female	33.345	0	no	northeast	8
					southwes	
54	male	25.1	3	yes	t	25382.3
					northwes	28868.6
61	male	28.31	1	yes	t	6
						35147.5
24	male	28.5	0	yes	northeast	3
					northwes	2534.39
25	male	35.625	0	no	t	4
						1534.30
21	male	36.85	0	no	southeast	5
						1824.28
23	male	32.56	0	no	southeast	5
					northwes	15555.1
63	male	41.325	3	no	t	9
						9304.70
49	male	37.51	2	no	southeast	2
						1622.18
18	female	31.35	0	no	southeast	9
					southwes	9880.06
51	female	39.5	1	no	t	8
					southwes	9563.02
48	male	34.3	3	no	t	9

						4347.02
31	female	31.065	0	no	northeast	3
					northwes	12475.3
54	female	21.47	3	no	t	5
					southwes	1253.93
19	male	28.7	0	no	t	6
						48885.1
44	female	38.06	0	yes	southeast	4
					northwes	10461.9
53	male	31.16	1	no	t	8
					southwes	1748.77
19	female	32.9	0	no	t	4
						24513.0
61	female	25.08	0	no	southeast	9
						2196.47
18	female	25.08	0	no	northeast	3
					southwes	12574.0
61	male	43.4	0	no	t	5
					southwes	17942.1
21	male	25.7	4	yes	t	1
						1967.02
20	male	27.93	0	no	northeast	3
					southwes	4931.64
31	female	23.6	2	no	t	7
					southwes	8027.96
45	male	28.7	2	no	t	8
44	female	23.98	2	no	southeast	8211.1
					southwes	13470.8
62	female	39.2	0	no	t	6
					southwes	
29	male	34.4	0	yes	t	36197.7
						6837.36
43	male	26.03	0	no	northeast	9
						22218.1
51	male	23.21	1	yes	southeast	1
						32548.3
19	male	30.25	0	yes	southeast	4
						5974.38
38	female	28.93	1	no	southeast	5
					northwes	6796.86
37	male	30.875	3	no	t	3
					northwes	2643.26
22	male	31.35	1	no	t	9
					northwes	3077.09
21	male	23.75	2	no	t	6
						3044.21
24	female	25.27	0	no	northeast	3
					southwes	11455.2
57	female	28.7	0	no	t	8
56	male	32.11	1	no	northeast	11763

						2498.41
27	male	33.66	0	no	southeast	4
						9361.32
51	male	22.42	0	no	northeast	7
					southwes	1256.29
19	male	30.4	0	no	t	9
					southwes	21082.1
39	male	28.3	1	yes	t	6
					southwes	11362.7
58	male	35.7	0	no	t	6
						27724.2
20	male	35.31	1	no	southeast	9
					northwes	8413.46
45	male	30.495	2	no	t	3
					southwes	5240.76
35	female	31	1	no	t	5
						3857.75
31	male	30.875	0	no	northeast	9
						25656.5
50	female	27.36	0	no	northeast	8
						3994.17
32	female	44.22	0	no	southeast	8
						9866.30
51	female	33.915	0	no	northeast	5
						5397.61
38	female	37.73	0	no	southeast	7
						38245.5
42	male	26.07	1	yes	southeast	9
						11482.6
18	female	33.88	0	no	southeast	3
					northwes	24059.6
19	female	30.59	2	no	t	8
					southwes	9861.02
51	female	25.8	1	no	t	5
						8342.90
46	male	39.425	1	no	northeast	9
						1708.00
18	male	25.46	0	no	northeast	1
						48675.5
57	male	42.13	1	yes	southeast	2
						14043.4
62	female	31.73	0	no	northeast	8
						12925.8
59	male	29.7	2	no	southeast	9
						19214.7
37	male	36.19	0	no	southeast	1
						13831.1
64	male	40.48	0	no	southeast	2
						6067.12
38	male	28.025	1	no	northeast	7

33	female	38.9	3	no	southwes	5972.37
					t	8
46	female	30.2	2	no	southwes	8825.08
					t	6
						8233.09
46	female	28.05	1	no	southeast	8
						27346.0
53	male	31.35	0	no	southeast	4
					southwes	6196.44
34	female	38	3	no	t	8
						3056.38
20	female	31.79	2	no	southeast	8
63	female	36.3	0	no	southeast	13887.2
						63770.4
54	female	47.41	0	yes	southeast	3
					northwes	
54	male	30.21	0	no	t	10231.5
					northwes	23807.2
49	male	25.84	2	yes	t	4
						3268.84
28	male	35.435	0	no	northeast	7
					southwes	11538.4
54	female	46.7	2	no	t	2
						3213.62
25	female	28.595	0	no	northeast	2
						45863.2
43	female	46.2	0	yes	southeast	1
					southwes	13390.5
63	male	30.8	0	no	t	6
						3972.92
32	female	28.93	0	no	southeast	5
					southwes	12957.1
62	male	21.4	0	no	t	2
					northwes	11187.6
52	female	31.73	2	no	t	6
25	female	41.325	0	no	northeast	17878.9
					southwes	3847.67
28	male	23.8	2	no	t	4
46	male	33.44	1	no	northeast	8334.59
34	male	34.21	0	no	southeast	3935.18
					northwes	39983.4
35	female	34.105	3	yes	t	3
					northwes	
19	male	35.53	0	no	t	1646.43
					northwes	9193.83
46	female	19.95	2	no	t	9
						10923.9
54	female	32.68	0	no	northeast	3
					southwes	2494.02
27	male	30.5	0	no	t	2
50	male	44.77	1	no	southeast	9058.73

						2801.25
18	female	32.12	2	no	southeast	9
					northwes	2128.43
19	female	30.495	0	no	t	1
					northwes	6373.55
38	female	40.565	1	no	t	7
					northwes	7256.72
41	male	30.59	2	no	t	3
					southwes	
49	female	31.9	5	no	t	11552.9
					northwes	45702.0
48	male	40.565	2	yes	t	2
					southwes	3761.29
31	female	29.1	0	no	t	2
						2219.44
18	female	37.29	1	no	southeast	5
						4753.63
30	female	43.12	2	no	southeast	7
62	female	36.86	1	no	northeast	31620
						13224.0
57	female	34.295	2	no	northeast	6
					northwes	
58	female	27.17	0	no	t	12222.9
22	male	26.84	0	no	southeast	1665
						58571.0
31	female	38.095	1	yes	northeast	7
					southwes	
52	male	30.2	1	no	t	9724.53
						3206.49
25	female	23.465	0	no	northeast	1
						12913.9
59	male	25.46	1	no	northeast	9
					northwes	1639.56
19	male	30.59	0	no	t	3
						6356.27
39	male	45.43	2	no	southeast	1
						17626.2
32	female	23.65	1	no	southeast	4
					southwes	1242.81
19	male	20.7	0	no	t	6
						4779.60
33	female	28.27	1	no	southeast	2
21	male	20.235	3	no	northeast	3861.21
					northwes	43943.8
34	female	30.21	1	yes	t	8
						13635.6
61	female	35.91	0	no	northeast	4
						5976.83
38	female	30.69	1	no	southeast	1
					southwes	11842.4
58	female	29	0	no	t	4

47	male	19.57	1	no	northwes t	8428.06 9 2566.47
20	male	31.13	2	no	southeast	1
21	female	21.85	1	yes	northeast	15359.1 5709.16
41	male	40.26	0	no	southeast	4 8823.98
46	female	33.725	1	no	northeast	6 7640.30
42	female	29.48	2	no	southeast	9 5594.84
34	female	33.25	1	no	northeast	6
43	male	32.6	2	no	southwes t	7441.50 1
52	female	37.525	2	no	northwes t	33471.9 7 1633.04
18	female	39.16	0	no	southeast	4
51	male	31.635	0	no	northwes t	9174.13 6
56	female	25.3	0	no	southwes t	11070.5 4 16085.1
64	female	39.05	3	no	southeast	3
19	female	28.31	0	yes	northwes t	17468.9 8 9283.56
51	female	34.1	0	no	southeast	2
27	female	25.175	0	no	northeast	3558.62
59	female	23.655	0	yes	northwes t	25678.7 8 4435.09
28	male	26.98	2	no	northeast	4
30	male	37.8	2	yes	southwes t	39241.4 4 8547.69
47	female	29.37	1	no	southeast	1
38	female	34.8	2	no	southwes t	6571.54 4 2207.69
18	female	33.155	0	no	northeast	7 6753.03
34	female	19	3	no	northeast	8
20	female	33	0	no	southeast	1880.07 42969.8
47	female	36.63	1	yes	southeast	5 11658.1
56	female	28.595	0	no	northeast	2
49	male	25.6	2	yes	southwes t	23306.5 5

						34439.8
19	female	33.11	0	yes	southeast	6
					southwes	10713.6
55	female	37.1	0	no	t	4
					southwes	3659.34
30	male	31.4	1	no	t	6
					southwes	40182.2
37	male	34.1	4	yes	t	5
					southwes	
49	female	21.3	1	no	t	9182.17
						34617.8
18	male	33.535	0	yes	northeast	4
					northwes	12129.6
59	male	28.785	0	no	t	1
					northwes	3736.46
29	female	26.03	0	no	t	5
						6748.59
36	male	28.88	3	no	northeast	1
						11326.7
33	male	42.46	1	no	southeast	1
					southwes	11365.9
58	male	38	0	no	t	5
					northwes	42983.4
44	female	38.95	0	yes	t	6
					southwes	10085.8
53	male	36.1	1	no	t	5
					southwes	1977.81
24	male	29.3	0	no	t	5
29	female	35.53	0	no	southeast	3366.67
40	male	22.705	2	no	northeast	7173.36
					southwes	9391.34
51	male	39.7	1	no	t	6
						14410.9
64	male	38.19	0	no	northeast	3
					northwes	2709.11
19	female	24.51	1	no	t	2
						24915.0
35	female	38.095	2	no	northeast	5
						20149.3
39	male	26.41	0	yes	northeast	2
						12949.1
56	male	33.66	4	no	southeast	6
					southwes	6666.24
33	male	42.4	5	no	t	3
					northwes	32787.4
42	male	28.31	3	yes	t	6
						13143.8
61	male	33.915	0	no	northeast	6
					northwes	4466.62
23	female	34.96	3	no	t	1

						18806.1
43	male	35.31	2	no	southeast	5
						10141.1
48	male	30.78	3	no	northeast	4
					northwes	6123.56
39	male	26.22	1	no	t	9
						8252.28
40	female	23.37	3	no	northeast	4
						1712.22
18	male	28.5	0	no	northeast	7
						12430.9
58	female	32.965	0	no	northeast	5
						9800.88
49	female	42.68	2	no	southeast	8
						10579.7
53	female	39.6	1	no	southeast	1
						8280.62
48	female	31.13	0	no	southeast	3
						8527.53
45	female	36.3	2	no	southeast	2
						12244.5
59	female	35.2	0	no	southeast	3
						24667.4
52	female	25.3	2	yes	southeast	2
					southwes	3410.32
26	female	42.4	1	no	t	4
					northwes	4058.71
27	male	33.155	2	no	t	2
						26392.2
48	female	35.91	1	no	northeast	6
57	female	28.785	4	no	northeast	14394.4
						6435.62
37	male	46.53	3	no	southeast	4
						22192.4
57	female	23.98	1	no	southeast	4
						5148.55
32	female	31.54	1	no	northeast	3
						1136.39
18	male	33.66	0	no	southeast	9
						27037.9
64	female	22.99	0	yes	southeast	1
						42560.4
43	male	38.06	2	yes	southeast	3
					southwes	8703.45
49	male	28.7	1	no	t	6
					northwes	40003.3
40	female	32.775	2	yes	t	3
						45710.2
62	male	32.015	0	yes	northeast	1
						6500.23
40	female	29.81	1	no	southeast	6

						4837.58
30	male	31.57	3	no	southeast	2
						3943.59
29	female	31.16	0	no	northeast	5
						4399.73
36	male	29.7	0	no	southeast	1
						6185.32
41	female	31.02	0	no	southeast	1
						46200.9
44	female	43.89	2	yes	southeast	9
					northwes	7222.78
45	male	21.375	0	no	t	6
55	female	40.81	3	no	southeast	12485.8
					northwes	46130.5
60	male	31.35	3	yes	t	3
					southwes	12363.5
56	male	36.1	3	no	t	5
					northwes	10156.7
49	female	23.18	2	no	t	8
					southwes	2585.26
21	female	17.4	1	no	t	9
					southwes	
19	male	20.3	0	no	t	1242.26
					southwes	40103.8
39	male	35.3	2	yes	t	9
					northwes	9863.47
53	male	24.32	0	no	t	2
					southwes	4766.02
33	female	18.5	1	no	t	2
						11244.3
53	male	26.41	2	no	northeast	8
						7729.64
42	male	26.125	2	no	northeast	6
						5438.74
40	male	41.69	0	no	southeast	9
					southwes	26236.5
47	female	24.1	1	no	t	8
						34806.4
27	male	31.13	1	yes	southeast	7
						2104.11
21	male	27.36	0	no	northeast	3
					southwes	8068.18
47	male	36.2	1	no	t	5
					northwes	2362.22
20	male	32.395	1	no	t	9
					northwes	2352.96
24	male	23.655	0	no	t	8
					southwes	3577.99
27	female	34.8	1	no	t	9
					northwes	3201.24
26	female	40.185	0	no	t	5

						29186.4
53	female	32.3	2	no	northeast	8
						40273.6
41	male	35.75	1	yes	southeast	5
					northwes	10976.2
56	male	33.725	0	no	t	5
						3500.61
23	female	39.27	2	no	southeast	2
						2020.55
21	female	34.87	0	no	southeast	2
						9541.69
50	female	44.745	0	no	northeast	6
53	male	41.47	0	no	southeast	9504.31
					northwes	5385.33
34	female	26.41	1	no	t	8
					northwes	8930.93
47	female	29.545	1	no	t	5
					southwes	5375.03
33	female	32.9	2	no	t	8
						44400.4
51	female	38.06	0	yes	southeast	1
					northwes	10264.4
49	male	28.69	3	no	t	4
						6113.23
31	female	30.495	3	no	northeast	1
						5469.00
36	female	27.74	0	no	northeast	7
18	male	35.2	1	no	southeast	1727.54
						10107.2
50	female	23.54	2	no	southeast	2
					northwes	8310.83
43	female	30.685	2	no	t	9
						1984.45
20	male	40.47	0	no	northeast	3
					southwes	2457.50
24	female	22.6	0	no	t	2
					southwes	12146.9
60	male	28.9	0	no	t	7
					northwes	9566.99
49	female	22.61	1	no	t	1
					northwes	
60	male	24.32	1	no	t	13112.6
					northwes	10848.1
51	female	36.67	2	no	t	3
					northwes	12231.6
58	female	33.44	0	no	t	1
51	female	40.66	0	no	northeast	9875.68
					southwes	11264.5
53	male	36.6	3	no	t	4
					southwes	12979.3
62	male	37.4	0	no	t	6

19	male	35.4	0	no	southwes t	1263.24 9
50	female	27.075	1	no	northeast	10106.1 3
30	female	39.05	3	yes	southeast	40932.4 3
41	male	28.405	1	no	northwes t	6664.68 6
29	female	21.755	1	yes	northeast	16657.7 2
18	female	40.28	0	no	northeast	2217.60 1
41	female	36.08	1	no	southeast	6781.35 4
35	male	24.42	3	yes	southeast	19362
53	male	21.4	1	no	southwes t	10065.4 1
24	female	30.1	3	no	southwes t	4234.92 7
48	female	27.265	1	no	northeast	9447.25
59	female	32.1	3	no	southwes t	14007.2 2
49	female	34.77	1	no	northwes t	9583.89 3
37	female	38.39	0	yes	southeast	40419.0 2
26	male	23.7	2	no	southwes t	3484.33 1
23	male	31.73	3	yes	northeast	36189.1
29	male	35.5	2	yes	southwes t	44585.4 6
45	male	24.035	2	no	northeast	8604.48 4
27	male	29.15	0	yes	southeast	18246.5
53	male	34.105	0	yes	northeast	43254.4 2
31	female	26.62	0	no	southeast	3757.84 5
50	male	26.41	0	no	northwes t	8827.21
50	female	30.115	1	no	northwes t	9910.36
34	male	27	2	no	southwes t	11737.8 5
19	male	21.755	0	no	northwes t	1627.28 2
47	female	36	1	no	southwes t	8556.90 7
28	male	30.875	0	no	northwes t	3062.50 8

						19539.2
37	female	26.4	0	yes	southeast	4
					northwes	1906.35
21	male	28.975	0	no	t	8
					northwes	14210.5
64	male	37.905	0	no	t	4
						11833.7
58	female	22.77	0	no	southeast	8
						17128.4
24	male	33.63	4	no	northeast	3
31	male	27.645	2	no	northeast	5031.27
						7985.81
39	female	22.8	3	no	northeast	5
						23065.4
47	female	27.83	0	yes	southeast	2
						5428.72
30	male	37.43	3	no	northeast	8
18	male	38.17	0	yes	southeast	36307.8
						3925.75
22	female	34.58	2	no	northeast	8
					southwes	2416.95
23	male	35.2	1	no	t	5
					southwes	19040.8
33	male	27.1	1	yes	t	8
						3070.80
27	male	26.03	0	no	northeast	9
						9095.06
45	female	25.175	2	no	northeast	8
					northwes	11842.6
57	female	31.825	0	no	t	2
					southwes	8062.76
47	male	32.3	1	no	t	4
					southwes	7050.64
42	female	29	1	no	t	2
					southwes	14319.0
64	female	39.7	0	no	t	3
					northwes	6933.24
38	female	19.475	2	no	t	2
					southwes	27941.2
61	male	36.1	3	no	t	9
					southwes	11150.7
53	female	26.7	2	no	t	8
						12797.2
44	female	36.48	0	no	northeast	1
					northwes	17748.5
19	female	28.88	0	yes	t	1
					northwes	7261.74
41	male	34.2	2	no	t	1
						10560.4
51	male	33.33	3	no	southeast	9

40	male	32.3	2	no	northwes t	6986.69 7 7448.40
45	male	39.805	0	no	northeast	4
35	male	34.32	3	no	southeast	5934.38
53	male	28.88	0	no	northwes t	9869.81 18259.2
30	male	24.4	3	yes	southwes t	2 1146.79
18	male	41.14	0	no	southeast	7 9386.16
51	male	35.97	1	no	southeast	1
50	female	27.6	1	yes	southwes t	24520.2 6 4350.51
31	female	29.26	1	no	southeast	4
35	female	27.7	3	no	southwes t	6414.17 8 12741.1
60	male	36.955	0	no	northeast	7
21	male	36.86	0	no	northwes t	1917.31 8 5209.57
29	male	22.515	3	no	northeast	9 13457.9
62	female	29.92	0	no	southeast	6 5662.22
39	female	41.8	0	no	southeast	5
19	male	27.6	0	no	southwes t	1252.40 7 2731.91
22	female	23.18	0	no	northeast	2 21195.8
53	male	20.9	0	yes	southeast	2
39	female	31.92	2	no	northwes t	7209.49 2 18310.7
27	male	28.5	0	yes	northwes t	4 4266.16
30	male	44.22	2	no	southeast	6 4719.52
30	female	22.895	1	no	northeast	4
58	female	33.1	0	no	southwes t	11848.1 4 17904.5
33	male	24.795	0	yes	northeast	3 7046.72
42	female	26.18	1	no	southeast	2 14313.8
64	female	35.97	0	no	southeast	5

21	male	22.3	1	no	southwes t	2103.08 38792.6
18	female	42.24	0	yes	southeast	9 1815.87
23	male	26.51	0	no	southeast	6 7731.85
45	female	35.815	0	no	northwes t	8 28476.7
40	female	41.42	1	no	northwes t	3 2136.88
19	female	36.575	0	no	northwes t	2 1131.50
18	male	30.14	0	no	southeast	7 3309.79
25	male	25.84	1	no	northeast southwes	3 9414.92
46	female	30.8	3	no	t northwes	6360.99 4 11013.7
33	female	42.94	3	no	t	1 4428.88
54	male	21.01	2	no	southeast	1 8 5584.30
28	male	22.515	2	no	northeast	6 1877.92
36	male	34.43	2	no	southeast	9 2842.76
20	female	31.46	0	no	southeast	1 3597.59
24	female	24.225	0	no	northwes t	6 23401.3
23	male	37.1	3	no	southwes t	1 1 55135.4
47	female	26.125	1	yes	northeast northwes	7445.91 8 2680.94
33	female	35.53	0	yes	t southwes	9 1621.88
45	male	33.7	1	no	t northwes	3 8219.20
26	male	17.67	0	no	t	4 12523.6
18	female	31.13	0	no	southeast	9 16069.0
44	female	29.81	2	no	southeast northwes	8 43813.8
60	male	24.32	0	no	t	7
64	female	31.825	2	no	northeast	
56	male	31.79	2	yes	southeast	

						20773.6
36	male	28.025	1	yes	northeast	3
						39597.4
41	male	30.78	3	yes	northeast	1
					northwes	6117.49
39	male	21.85	1	no	t	5
					southwes	13393.7
63	male	33.1	0	no	t	6
					northwes	5266.36
36	female	25.84	0	no	t	6
					northwes	4719.73
28	female	23.845	2	no	t	7
					northwes	11743.9
58	male	34.39	0	no	t	3
					northwes	5377.45
36	male	33.82	1	no	t	8
42	male	35.97	2	no	southeast	7160.33
					southwes	4402.23
36	male	31.5	0	no	t	3
						11657.7
56	female	28.31	0	no	northeast	2
						6402.29
35	female	23.465	2	no	northeast	1
					northwes	12622.1
59	female	31.35	0	no	t	8
					southwes	1526.31
21	male	31.1	0	no	t	2
						12323.9
59	male	24.7	0	no	northeast	4
						36021.0
23	female	32.78	2	yes	southeast	1
						27533.9
57	female	29.81	0	yes	southeast	1
						10072.0
53	male	30.495	0	no	northeast	6
						45008.9
60	female	32.45	0	yes	southeast	6
					southwes	9872.70
51	female	34.2	1	no	t	1
						2438.05
23	male	50.38	1	no	southeast	5
					southwes	2974.12
27	female	24.1	0	no	t	6
					northwes	10601.6
55	male	32.775	0	no	t	3
						37270.1
37	female	30.78	0	yes	northeast	5
					northwes	14119.6
61	male	32.3	2	no	t	2
						42111.6
46	female	35.53	0	yes	northeast	6

						11729.6
53	female	23.75	2	no	northeast	8
						24106.9
49	female	23.845	3	yes	northeast	1
					southwes	1875.34
20	female	29.6	0	no	t	4
						40974.1
48	female	33.11	0	yes	southeast	6
					northwes	15817.9
25	male	24.13	0	yes	t	9
						18218.1
25	female	32.23	1	no	southeast	6
					southwes	10965.4
57	male	28.1	0	no	t	5
					southwes	46113.5
37	female	47.6	2	yes	t	1
					southwes	7151.09
38	female	28	3	no	t	2
					northwes	12269.6
55	female	33.535	2	no	t	9
						5458.04
36	female	19.855	0	no	northeast	6
					southwes	8782.46
51	male	25.4	0	no	t	9
					southwes	6600.36
40	male	29.9	2	no	t	1
						1141.44
18	male	37.29	0	no	southeast	5
					southwes	11576.1
57	male	43.7	1	no	t	3
61	male	23.655	0	no	northeast	13129.6
					southwes	4391.65
25	female	24.3	3	no	t	2
					southwes	8457.81
50	male	36.2	0	no	t	8
						3392.36
26	female	29.48	1	no	southeast	5
						5966.88
42	male	24.86	0	no	southeast	7
					southwes	6849.02
43	male	30.1	1	no	t	6
44	male	21.85	3	no	northeast	8891.14
					northwes	2690.11
23	female	28.12	0	no	t	4
					southwes	26140.3
49	female	27.1	1	no	t	6
						6653.78
33	male	33.44	5	no	southeast	9
					southwes	6282.23
41	male	28.8	1	no	t	5

37	female	29.5	2	no	southwes	6311.95
					t	2
22	male	34.8	3	no	southwes	3443.06
					t	4
23	male	27.36	1	no	northwes	2789.05
					t	7
						2585.85
21	female	22.135	0	no	northeast	1
						46255.1
51	female	37.05	3	yes	northeast	1
					northwes	4877.98
25	male	26.695	4	no	t	1
						19719.6
32	male	28.93	1	yes	southeast	9
						27218.4
57	male	28.975	0	yes	northeast	4
					northwes	5272.17
36	female	30.02	0	no	t	6
					southwes	1682.59
22	male	39.5	0	no	t	7
					northwes	11945.1
57	male	33.63	1	no	t	3
					northwes	29330.9
64	female	26.885	0	yes	t	8
						7243.81
36	female	29.04	4	no	southeast	4
						10422.9
54	male	24.035	0	no	northeast	2
						44202.6
47	male	38.94	2	yes	southeast	5
62	male	32.11	0	no	northeast	13555
					southwes	13063.8
61	female	44	0	no	t	8
						19798.0
43	female	20.045	2	yes	northeast	5
					northwes	2221.56
19	male	25.555	1	no	t	4
						1634.57
18	female	40.26	0	no	southeast	3
					northwes	2117.33
19	female	22.515	0	no	t	9
						8688.85
49	male	22.515	0	no	northeast	9
						48673.5
60	male	40.92	0	yes	southeast	6
						4661.28
26	male	27.265	3	no	northeast	6
						8125.78
49	male	36.85	0	no	southeast	5
					southwes	12644.5
60	female	35.1	0	no	t	9

						4564.19
26	female	29.355	2	no	northeast	1
27	male	32.585	3	no	northeast	4846.92
						7633.72
44	female	32.34	1	no	southeast	1
					southwes	15170.0
63	male	39.8	3	no	t	7
					southwes	17496.3
32	female	24.6	0	yes	t	1
					northwes	2639.04
22	male	28.31	1	no	t	3
						33732.6
18	male	31.73	0	yes	northeast	9
					northwes	14382.7
59	female	26.695	3	no	t	1
					southwes	7626.99
44	female	27.5	1	no	t	3
					northwes	5257.50
33	male	24.605	2	no	t	8
						2473.33
24	female	33.99	0	no	southeast	4
					northwes	21774.3
43	female	26.885	0	yes	t	2
						35069.3
45	male	22.895	0	yes	northeast	7
					southwes	13041.9
61	female	28.2	0	no	t	2
						5245.22
35	female	34.21	1	no	southeast	7
					southwes	13451.1
62	female	25	0	no	t	2
					southwes	13462.5
62	female	33.2	0	no	t	2
					southwes	5488.26
38	male	31	1	no	t	2
					northwes	4320.41
34	male	35.815	0	no	t	1
					southwes	6250.43
43	male	23.2	0	no	t	5
						25333.3
50	male	32.11	2	no	northeast	3
					southwes	2913.56
19	female	23.4	2	no	t	9
					southwes	12032.3
57	female	20.1	1	no	t	3
62	female	39.16	0	no	southeast	13470.8
						6289.75
41	male	34.21	1	no	southeast	5
						2927.06
26	male	46.53	1	no	southeast	5

39	female	32.5	1	no	southwes	6238.29
					t	8
46	male	25.8	5	no	southwes	10096.9
					t	7
45	female	35.3	0	no	southwes	7348.14
					t	2
						4673.39
32	male	37.18	2	no	southeast	2
					southwes	12233.8
59	female	27.5	0	no	t	3
						32108.6
44	male	29.735	2	no	northeast	6
					northwes	8965.79
39	female	24.225	5	no	t	6
						2304.00
18	male	26.18	2	no	southeast	2
						9487.64
53	male	29.48	0	no	southeast	4
						1121.87
18	male	23.21	0	no	southeast	4
						9549.56
50	female	46.09	1	no	southeast	5
						2217.46
18	female	40.185	0	no	northeast	9
					northwes	1628.47
19	male	22.61	0	no	t	1
						12982.8
62	male	39.93	0	no	southeast	7
					southwes	11674.1
56	female	35.8	1	no	t	3
					southwes	7160.09
42	male	35.8	2	no	t	4
						39047.2
37	male	34.2	1	yes	northeast	9
					northwes	6358.77
42	male	31.255	0	no	t	6
					southwes	19933.4
25	male	29.7	3	yes	t	6
						11534.8
57	male	18.335	0	no	northeast	7
						47462.8
51	male	42.9	2	yes	southeast	9
					northwes	4527.18
30	female	28.405	1	no	t	3
					southwes	38998.5
44	male	30.2	2	yes	t	5
					northwes	20009.6
34	male	27.835	1	yes	t	3
						3875.73
31	male	39.49	1	no	southeast	4

						41999.5
54	male	30.8	1	yes	southeast	2
					northwes	12609.8
24	male	26.79	1	no	t	9
						41034.2
43	male	34.96	1	yes	northeast	2
					northwes	28468.9
48	male	36.67	1	no	t	2
					northwes	2730.10
19	female	39.615	1	no	t	8
					southwes	3353.28
29	female	25.9	0	no	t	4
						14474.6
63	female	35.2	1	no	southeast	8
						9500.57
46	male	24.795	3	no	northeast	3
					northwes	
52	male	36.765	2	no	t	26467.1
					southwes	4746.34
35	male	27.1	1	no	t	4
					northwes	23967.3
51	male	24.795	2	yes	t	8
					northwes	7518.02
44	male	25.365	1	no	t	5
						3279.86
21	male	25.745	2	no	northeast	9
						8596.82
39	female	34.32	5	no	southeast	8
						10702.6
50	female	28.16	3	no	southeast	4
						4992.37
34	female	23.56	0	no	northeast	6
					northwes	2527.81
22	female	20.235	0	no	t	9
					southwes	1759.33
19	female	40.5	0	no	t	8
						2322.62
26	male	35.42	0	no	southeast	2
						16138.7
29	male	22.895	0	yes	northeast	6
						7804.16
48	male	40.15	0	no	southeast	1
						2902.90
26	male	29.15	1	no	southeast	7
						9704.66
45	female	39.995	3	no	northeast	8
						4889.03
36	female	29.92	0	no	southeast	7
						25517.1
54	male	25.46	1	no	northeast	1

						4500.33
34	male	21.375	0	no	northeast	9
					southwes	19199.9
31	male	25.9	3	yes	t	4
						16796.4
27	female	30.59	1	no	northeast	1
20	male	30.115	5	no	northeast	4915.06
					southwes	
44	female	25.8	1	no	t	7624.63
					northwes	8410.04
43	male	30.115	3	no	t	7
					northwes	28340.1
45	female	27.645	1	no	t	9
						4518.82
34	male	34.675	0	no	northeast	6
						14571.8
24	female	20.52	0	yes	northeast	9
					southwes	
26	female	19.8	1	no	t	3378.91
						7144.86
38	female	27.835	2	no	northeast	3
					southwes	10118.4
50	female	31.6	2	no	t	2
						5484.46
38	male	28.27	1	no	southeast	7
					northwes	16420.4
27	female	20.045	3	yes	t	9
						7986.47
39	female	23.275	3	no	northeast	5
					southwes	7418.52
39	female	34.1	3	no	t	2
						13887.9
63	female	36.85	0	no	southeast	7
33	female	36.29	3	no	northeast	6551.75
					northwes	5267.81
36	female	26.885	0	no	t	8
					northwes	17361.7
30	male	22.99	2	yes	t	7
					southwes	34472.8
24	male	32.7	0	yes	t	4
					southwes	
24	male	25.8	0	no	t	1972.95
					southwes	21232.1
48	male	29.6	0	no	t	8
						8627.54
47	male	19.19	1	no	northeast	1
					northwes	4433.38
29	male	31.73	2	no	t	8
						4438.26
28	male	29.26	2	no	northeast	3

47	male	28.215	3	yes	northwes t	24915.2 2
25	male	24.985	2	no	northeast	23241.4 7
51	male	27.74	1	no	northeast	9957.72 2
48	female	22.8	0	no	southwes t	8269.04 4
43	male	20.13	2	yes	southeast	18767.7 4
61	female	33.33	4	no	southeast	36580.2 8
48	male	32.3	1	no	northwes t	8765.24 9
38	female	27.6	0	no	southwes t	5383.53 6
59	male	25.46	0	no	northwes t	12124.9 9
19	female	24.605	1	no	northwes t	2709.24 4
26	female	34.2	2	no	southwes t	3987.92 6
54	female	35.815	3	no	northwes t	12495.2 9
21	female	32.68	2	no	northwes t	26018.9 5
51	male	37	0	no	southwes t	8798.59 3
22	female	31.02	3	yes	southeast	35595.5 9
47	male	36.08	1	yes	southeast	42211.1 4
18	male	23.32	1	no	southeast	1711.02 7
47	female	45.32	1	no	southeast	8569.86 2
21	female	34.6	0	no	southwes t	2020.17 7
19	male	26.03	1	yes	northwes t	16450.8 9
23	male	18.715	0	no	northwes t	21595.3 8
54	male	31.6	0	no	southwes t	9850.43 2
37	female	17.29	2	no	northeast	6877.98
46	female	23.655	1	yes	northwes t	21677.2 8
55	female	35.2	0	yes	southeast	44423.8
30	female	27.93	0	no	northeast	4137.52 3

						13747.8
18	male	21.565	0	yes	northeast	7
					northwes	12950.0
61	male	38.38	0	no	t	7
					southwes	12094.4
54	female	23	3	no	t	8
						37484.4
22	male	37.07	2	yes	southeast	5
					northwes	39725.5
45	female	30.495	1	yes	t	2
						2250.83
22	male	28.88	0	no	northeast	5
					northwes	22493.6
19	male	27.265	2	no	t	6
					northwes	20234.8
35	female	28.025	0	yes	t	5
18	male	23.085	0	no	northeast	1704.7
						33475.8
20	male	30.685	0	yes	northeast	2
					southwes	3161.45
28	female	25.8	0	no	t	4
						11394.0
55	male	35.245	1	no	northeast	7
					northwes	21880.8
43	female	24.7	2	yes	t	2
						7325.04
43	female	25.08	0	no	northeast	8
22	male	52.58	1	yes	southeast	44501.4
					northwes	3594.17
25	female	22.515	1	no	t	1
					southwes	39727.6
49	male	30.9	0	yes	t	1
					northwes	8023.13
44	female	36.955	1	no	t	5
						14394.5
64	male	26.41	0	no	northeast	6
						9288.02
49	male	29.83	1	no	northeast	7
					southwes	25309.4
47	male	29.8	3	yes	t	9
					northwes	
27	female	21.47	0	no	t	3353.47
					northwes	
55	male	27.645	0	no	t	10594.5
					southwes	8277.52
48	female	28.9	0	no	t	3
45	female	31.79	0	no	southeast	17929.3
						2480.97
24	female	39.49	0	no	southeast	9
					northwes	4462.72
32	male	33.82	1	no	t	2

						1981.58
24	male	32.01	0	no	southeast	2
						11554.2
57	male	27.94	1	no	southeast	2
						48970.2
59	male	41.14	1	yes	southeast	5
					northwes	6548.19
36	male	28.595	3	no	t	5
					southwes	5708.86
29	female	25.6	4	no	t	7
					southwes	7045.49
42	female	25.3	1	no	t	9
						8978.18
48	male	37.29	2	no	southeast	5
						5757.41
39	male	42.655	0	no	northeast	3
					northwes	14349.8
63	male	21.66	1	no	t	5
						10928.8
54	female	31.9	1	no	southeast	5
37	male	37.07	1	yes	southeast	39871.7
						13974.4
63	male	31.445	0	no	northeast	6
					northwes	1909.52
21	male	31.255	0	no	t	7
						12096.6
54	female	28.88	2	no	northeast	5
						13204.2
60	female	18.335	0	no	northeast	9
						4562.84
32	female	29.59	1	no	southeast	2
					southwes	8551.34
47	female	32	1	no	t	7
						2102.26
21	male	26.03	0	no	northeast	5
						34672.1
28	male	31.68	0	yes	southeast	5
						15161.5
63	male	33.66	3	no	southeast	3
						11884.0
18	male	21.78	2	no	southeast	5
					northwes	4454.40
32	male	27.835	1	no	t	3
					northwes	5855.90
38	male	19.95	1	no	t	3
					southwes	4076.49
32	male	31.5	1	no	t	7
					northwes	15019.7
62	female	30.495	2	no	t	6
					southwes	19023.2
39	female	18.3	5	yes	t	6

						10796.3
55	male	28.975	0	no	northeast	5
					northwes	11353.2
57	male	31.54	0	no	t	3
						9748.91
52	male	47.74	1	no	southeast	1
					southwes	10577.0
56	male	22.1	0	no	t	9
						41676.0
47	male	36.19	0	yes	southeast	8
						11286.5
55	female	29.83	0	no	northeast	4
					southwes	
23	male	32.7	3	no	t	3591.48
					northwes	33907.5
22	female	30.4	0	yes	t	5
					southwes	11299.3
50	female	33.7	4	no	t	4
						4561.18
18	female	31.35	4	no	northeast	9
51	female	34.96	2	yes	northeast	44641.2
						1674.63
22	male	33.77	0	no	southeast	2
						23045.5
52	female	30.875	0	no	northeast	7
						3227.12
25	female	33.99	1	no	southeast	1
33	female	19.095	2	yes	northeast	16776.3
					southwes	11253.4
53	male	28.6	3	no	t	2
29	male	38.94	1	no	southeast	3471.41
						11363.2
58	male	36.08	0	no	southeast	8
					southwes	
37	male	29.8	0	no	t	20420.6
						10338.9
54	female	31.24	0	no	southeast	3
					northwes	8988.15
49	female	29.925	0	no	t	9
					northwes	10493.9
50	female	26.22	2	no	t	5
					southwes	2904.08
26	male	30	1	no	t	8
						8605.36
45	male	20.35	3	no	southeast	2
						11512.4
54	female	32.3	1	no	northeast	1
						41949.2
38	male	38.39	3	yes	southeast	4
						24180.9
48	female	25.85	3	yes	southeast	3

28	female	26.315	3	no	northwest	5312.17
						2396.09
23	male	24.51	0	no	northeast	6
						10807.4
55	male	32.67	1	no	southeast	9
						9222.40
41	male	29.64	5	no	northeast	3
						36124.5
25	male	33.33	2	yes	southeast	7
						38282.7
33	male	35.75	1	yes	southeast	5
					northwest	5693.43
30	female	19.95	3	no	northwest	1
					southwest	34166.2
23	female	31.4	0	yes	southwest	7
						8347.16
46	male	38.17	2	no	southeast	4
					northwest	46661.4
53	female	36.86	3	yes	northwest	4
						18903.4
27	female	32.395	1	no	northeast	9
23	female	42.75	1	yes	northeast	40904.2
					northwest	14254.6
63	female	25.08	0	no	northwest	1
					southwest	10214.6
55	male	29.9	0	no	southwest	4
35	female	35.86	2	no	southeast	5836.52
					southwest	14358.3
34	male	32.8	1	no	southwest	6
						1728.89
19	female	18.6	0	no	southwest	7
						8582.30
39	female	23.87	5	no	southeast	2
					southwest	3693.42
27	male	45.9	2	no	southwest	8
						20709.0
57	male	40.28	0	no	northeast	2
					northwest	9991.03
52	female	18.335	0	no	northwest	8
					northwest	19673.3
28	male	33.82	0	no	northwest	4
					northwest	11085.5
50	female	28.12	3	no	northwest	9
					southwest	7623.51
44	female	25	1	no	southwest	8
					northwest	3176.28
26	female	22.23	0	no	northwest	8
						3704.35
33	male	30.25	0	no	southeast	5

19	female	32.49	0	yes	northwes t	36898.7 3
50	male	37.07	1	no	southeast southwes t	9048.02 7 7954.51
41	female	32.6	3	no	t	7 27117.9
52	female	24.86	0	no	southeast	9 6338.07
39	male	32.34	2	no	southeast southwes t	6 9630.39 7
50	male	32.3	2	no	northwes t	11289.1 1
52	male	32.775	3	no	southwes t	52590.8 3
60	male	32.8	0	yes	northwes t	2261.56 9
20	female	31.92	0	no	southwes t	10791.9 6
55	male	21.5	1	no	southwes t	5979.73 1
42	male	34.1	0	no	t	2203.73 6
18	female	30.305	0	no	northeast northwes t	12235.8 4 40941.2
58	female	36.48	0	no	t	9
43	female	32.56	3	yes	southeast northwes t	5630.45 8
35	female	35.815	1	no	northwes t	11015.1 7
48	female	27.93	4	no	t	7228.21 6
36	female	22.135	3	no	northeast	39722.7 5
19	male	44.88	0	yes	southeast northwes t	14426.0 7
23	female	23.18	2	no	t	2459.72
20	female	30.59	0	no	northeast southwes t	3989.84 1
32	female	41.1	0	no	northwes t	7727.25 3
43	female	34.58	1	no	t	5124.18 9
34	male	42.13	2	no	southeast	18963.1 7
30	male	38.83	1	no	southeast	2200.83 1
18	female	28.215	0	no	northeast northwes t	7153.55 4
41	female	28.31	1	no	t	

						5227.98
35	female	26.125	0	no	northeast	9
57	male	40.37	0	no	southeast	10982.5
					southwes	4529.47
29	female	24.6	2	no	t	7
					southwes	
32	male	35.2	2	no	t	4670.64
					northwes	6112.35
37	female	34.105	1	no	t	3
						17178.6
18	male	27.36	1	yes	northeast	8
					southwes	
43	female	26.7	2	yes	t	22478.6
						11093.6
56	female	41.91	0	no	southeast	2
					northwes	6457.84
38	male	29.26	2	no	t	3
					northwes	4433.91
29	male	32.11	2	no	t	6
					southwes	2154.36
22	female	27.1	0	no	t	1
					northwes	23887.6
52	female	24.13	1	yes	t	6
					southwes	6496.88
40	female	27.4	1	no	t	6
						2899.48
23	female	34.865	0	no	northeast	9
						19350.3
31	male	29.81	0	yes	southeast	7
						7650.77
42	female	41.325	1	no	northeast	4
					northwes	2850.68
24	female	29.925	0	no	t	4
					southwes	2632.99
25	female	30.3	0	no	t	2
						9447.38
48	female	27.36	1	no	northeast	2
						18328.2
23	female	28.49	1	yes	southeast	4
						8603.82
45	male	23.56	2	no	northeast	3
					northwes	37465.3
20	male	35.625	3	yes	t	4
					northwes	
62	female	32.68	0	no	t	13844.8
						21771.3
43	female	25.27	1	yes	northeast	4
					southwes	13126.6
23	female	28	0	no	t	8
					northwes	
31	female	32.775	2	no	t	5327.4

						13725.4
41	female	21.755	1	no	northeast	7
						13019.1
58	female	32.395	1	no	northeast	6
					northwes	8671.19
48	female	36.575	0	no	t	1
					northwes	4134.08
31	female	21.755	0	no	t	2
					northwes	
19	female	27.93	3	no	t	18838.7
					northwes	33307.5
19	female	30.02	0	yes	t	5
						5699.83
41	male	33.55	0	no	southeast	8
					northwes	6393.60
40	male	29.355	1	no	t	3
					southwes	4934.70
31	female	25.8	2	no	t	5
					northwes	6198.75
37	male	24.32	2	no	t	2
					northwes	8733.22
46	male	40.375	2	no	t	9
					northwes	2055.32
22	male	32.11	0	no	t	5
51	male	32.3	1	no	northeast	9964.06
						18223.4
18	female	27.28	3	yes	southeast	5
					northwes	
35	male	17.86	1	no	t	5116.5
					southwes	36910.6
59	female	34.8	2	no	t	1
					southwes	38415.4
36	male	33.4	2	yes	t	7
						20296.8
37	female	25.555	1	yes	northeast	6
					southwes	12347.1
59	male	37.1	1	no	t	7
					northwes	5373.36
36	male	30.875	1	no	t	4
						23563.0
39	male	34.1	2	no	southeast	2
						1702.45
18	male	21.47	0	no	northeast	5
					southwes	10806.8
52	female	33.3	2	no	t	4
					northwes	3956.07
27	female	31.255	1	no	t	1
						12890.0
18	male	39.14	0	no	northeast	6
						5415.66
40	male	25.08	0	no	southeast	1

						4058.11
29	male	37.29	2	no	southeast	6
					southwes	
46	female	34.6	1	yes	t	41661.6
					northwes	7537.16
38	female	30.21	3	no	t	4
						4718.20
30	female	21.945	1	no	northeast	4
						6593.50
40	male	24.97	2	no	southeast	8
						8442.66
50	male	25.3	0	no	southeast	7
						26125.6
20	female	24.42	0	yes	southeast	7
41	male	23.94	1	no	northeast	6858.48
						4795.65
33	female	39.82	1	no	southeast	7
						6640.54
38	male	16.815	2	no	northeast	5
						7162.01
42	male	37.18	2	no	southeast	2
						10594.2
56	male	34.43	0	no	southeast	3
						11938.2
58	male	30.305	0	no	northeast	6
					northwes	
52	male	34.485	3	yes	t	60021.4
					southwes	20167.3
20	female	21.8	0	yes	t	4
					northwes	12479.7
54	female	24.605	3	no	t	1
					southwes	11345.5
58	male	23.3	0	no	t	2
						8515.75
45	female	27.83	2	no	southeast	9
					northwes	2699.56
26	male	31.065	0	no	t	8
						14449.8
63	female	21.66	0	no	northeast	5
					northwes	12224.3
58	female	28.215	0	no	t	5
						6985.50
37	male	22.705	3	no	northeast	7
						3238.43
25	female	42.13	1	no	southeast	6
						47269.8
52	male	41.8	2	yes	southeast	5
						49577.6
64	male	36.96	2	yes	southeast	6
					northwes	4296.27
22	female	21.28	3	no	t	1

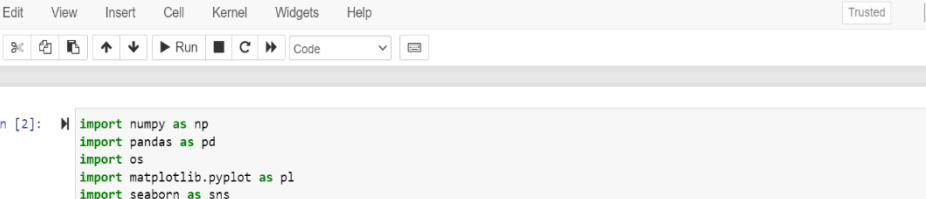
						3171.61
28	female	33.11	0	no	southeast	5
						1135.94
18	male	33.33	0	no	southeast	1
					southwes	5615.36
28	male	24.3	5	no	t	9
					southwes	9101.79
45	female	25.7	3	no	t	8
					southwes	6059.17
33	male	29.4	4	no	t	3
						1633.96
18	female	39.82	0	no	southeast	2
						37607.5
32	male	33.63	1	yes	northeast	3
						18648.4
24	male	29.83	0	yes	northeast	2
					southwes	1241.56
19	male	19.8	0	no	t	5
					southwes	16232.8
20	male	27.3	0	yes	t	5
					southwes	15828.8
40	female	29.3	4	no	t	2
						4415.15
34	female	27.72	0	no	southeast	9
					southwes	6474.01
42	female	37.9	0	no	t	3
					northwes	11436.7
51	female	36.385	3	no	t	4
					northwes	11305.9
54	female	27.645	1	no	t	3
					northwes	30063.5
55	male	37.715	3	no	t	8
						10197.7
52	female	23.18	0	no	northeast	7
						4544.23
32	female	20.52	0	no	northeast	5
					southwes	3277.16
28	male	37.1	1	no	t	1
						6770.19
41	female	28.05	1	no	southeast	3
					southwes	7337.74
43	female	29.9	1	no	t	8
						10370.9
49	female	33.345	2	no	northeast	1
						26926.5
64	male	23.76	0	yes	southeast	1
					southwes	10704.4
55	female	30.5	0	no	t	7
						34254.0
24	male	31.065	0	yes	northeast	5

20	female	33.3	0	no	southwes t	1880.48 7
45	male	27.5	3	no	southwes t	8615.3
26	male	33.915	1	no	northwes t	3292.53
25	female	34.485	0	no	northwes t	3021.80 9
43	male	25.52	5	no	southeast	14478.3 3
35	male	27.61	1	no	southeast	4747.05 3
26	male	27.06	0	yes	southeast	17043.3 4
57	male	23.7	0	no	southwes t	10959.3 3
22	female	30.4	0	no	northeast northwes t	2741.94 8 4357.04 4
32	female	29.735	0	no	t	22462.0
39	male	29.925	1	yes	northeast	4
25	female	26.79	2	no	northwes t	4189.11 3
48	female	33.33	0	no	southeast northwes t	8283.68 1
47	female	27.645	2	yes	t	24535.7 14283.4
18	female	21.66	0	yes	northeast	6
18	male	30.03	1	no	southeast	1720.35 4
61	male	36.3	1	yes	southwes t	47403.8 8
47	female	24.32	0	no	northeast	8534.67 2
28	female	17.29	0	no	northeast	3732.62 5
36	female	25.9	1	no	southwes t	5472.44 9
20	male	39.4	2	yes	southwes t	38344.5 7
44	male	34.32	1	no	southeast	7147.47 3
38	female	19.95	2	no	northeast	7133.90 3
19	male	34.9	0	yes	southwes t	34828.6 5
21	male	23.21	0	no	southeast	1515.34 5

46	male	25.745	3	no	northwes t	9301.89 4 11931.1
58	male	25.175	0	no	northeast southwes t	3 1964.78 1708.92
20	male	22	1	no	northeast	6 4340.44
18	male	26.125	0	no	southeast	1 5261.46
28	female	26.51	2	no	northwes t	9 2710.82
33	male	27.455	2	no	northwes t	9 62592.8
19	female	25.745	1	no	southeast	7 46718.1
45	male	30.36	0	yes	northwes t	6 3208.78
62	male	30.875	3	yes	southwes t	7 37829.7
25	female	20.8	1	no	southwes t	2 21259.3
43	male	27.8	0	yes	northeast	8 2464.61
42	male	24.605	2	yes	southeast	9 16115.3
24	female	27.72	0	no	northeast	21472.4
29	female	21.85	0	yes	northwes t	8 33900.6
32	male	28.12	4	yes	southwes t	5 6875.96
25	female	30.2	0	yes	southwes t	1 6940.91
41	male	32.2	2	no	northwes t	4571.41
42	male	26.315	1	no	northwes t	3 4536.25
33	female	26.695	0	no	southwes t	9 36397.5
34	male	42.9	1	no	southwes t	8 18765.8
19	female	34.7	2	yes	northwes t	8 11272.3
30	female	23.655	3	yes	northeast	3 1731.67
18	male	28.31	1	no	southwes t	7 1163.46
19	female	20.6	0	no	southeast	3 19496.7
18	male	53.13	0	no	northeast	2
35	male	39.71	4	no		

39	female	26.315	2	no	northwes t	7201.70 1
31	male	31.065	3	no	northwes t	5425.02 3
62	male	26.695	0	yes	northeast	28101.3 3
62	male	38.83	0	no	southeast	12981.3 5
42	female	40.37	2	yes	southeast	43896.3 8
31	male	25.935	1	no	northwes t	4239.89 3
61	male	33.535	0	no	northeast	13143.3 4
42	female	32.87	0	no	northeast	7050.02 1
51	male	30.03	1	no	southeast	9377.90 5
23	female	24.225	2	no	northeast	22395.7 4
52	male	38.6	2	no	southwes t	10325.2 1
57	female	25.74	2	no	southeast	12629.1 7
23	female	33.4	0	no	southwes t	10795.9 4
52	female	44.7	3	no	southwes t	11411.6 9
50	male	30.97	3	no	northwes t	10600.5 5
18	female	31.92	0	no	northeast	2205.98 1
18	female	36.85	0	no	southeast	1629.83 4
21	female	25.8	0	no	southwes t	2007.94 5

Implementation:



The screenshot displays a Jupyter Notebook environment. At the top, the title bar reads "jupyter Untitled27" with a status indicator "Last Checkpoint: a minute ago (autosaved)". On the right, there is a "Logout" button. Below the title bar is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. To the right of the menu bar are two buttons: "Trusted" and "Python 3". Below the menu bar is a toolbar with icons for saving, adding, undo, redo, running, and other functions. The main area of the notebook shows two input cells. The first cell, labeled "In [2]:", contains Python code that imports several libraries: numpy, pandas, os, matplotlib.pyplot, seaborn, and warnings, and then reads a CSV file named "insurance.csv" into a variable named "data". The second cell, labeled "In [3]:", contains the command "data.head()". Below the second cell, the output is displayed as "Out[3]:", followed by a table showing the first five rows of the "insurance.csv" data. The table has columns for age, sex, bmi, children, smoker, region, and charges.

jupyter Untitled27 Last Checkpoint: a minute ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Save Add Undo Redo Run Stop Code

```
In [2]: import numpy as np
import pandas as pd
import os
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')
data = pd.read_csv('insurance.csv')
```

```
In [3]: data.head()
```

Out[3]:

	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520

Jupyter Untitled27 Last Checkpoint: 2 minutes ago (autosaved)

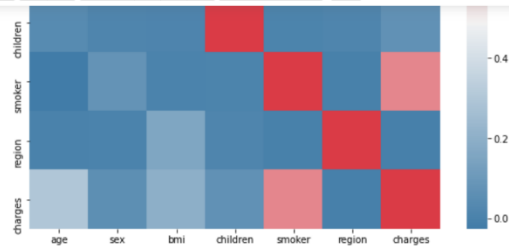
File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

charges 1.000000
Name: charges, dtype: float64

```
In [7]: f, ax = plt.subplots(figsize=(10, 8))  
corr = data.corr()  
sns.heatmap(corr, mask=np.zeros_like(corr, dtype=np.bool), cmap=sns.diverging_palette(240,10,as_cmap=True),  
            square=True, ax=ax)
```

Out[7]: <AxesSubplot:>

	age	sex	bmi	children	smoker	non-smoker
age	1.0	-0.1	-0.1	-0.1	-0.1	-0.1
sex	-0.1	1.0	-0.1	-0.1	-0.1	-0.1
bmi	-0.1	-0.1	1.0	-0.1	-0.1	-0.1
children	-0.1	-0.1	-0.1	1.0	-0.1	-0.1
smoker	-0.1	-0.1	-0.1	-0.1	1.0	-0.1
non-smoker	-0.1	-0.1	-0.1	-0.1	-0.1	1.0

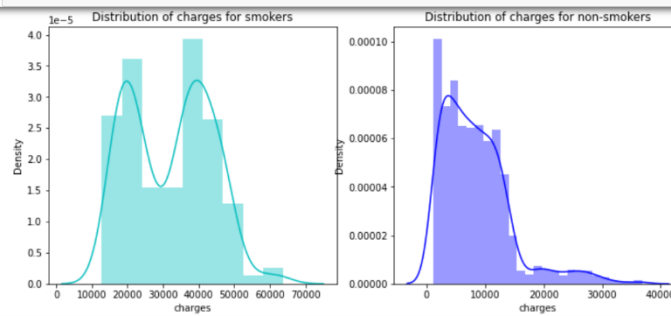


```
In [8]: from bokeh.io import output_notebook, show
from bokeh.plotting import figure
output_notebook()
import scipy.special
from bokeh.layouts import gridplot
from bokeh.plotting import figure, show, output_file
p = figure(title="Distribution of charges", tools="save",
background_fill_color="#E8DDCB")
hist, edges = np.histogram(data.charges)
p.quad(top=hist, bottom=0, left=edges[:-1], right=edges[1:],
fill_color="#036564", line_color="#033649")
p.xaxis.axis_label = 'x'
p.yaxis.axis_label = 'Pr(x)'
show(gridplot(p, ncols = 2, plot_width=400, plot_height=400, toolbar_location=None))
```

```
In [9]: f = plt.figure(figsize=(12,5))

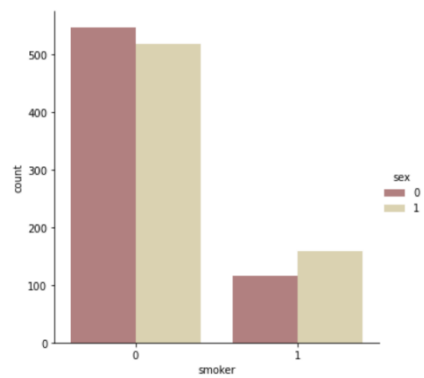
ax=f.add_subplot(121)
sns.distplot(data[(data.smoker == 1)][ "charges"],color='c',ax=ax)
ax.set_title('Distribution of charges for smokers')

ax=f.add_subplot(122)
sns.distplot(data[(data.smoker == 0)][ "charges"],color='b',ax=ax)
ax.set_title('Distribution of charges for non-smokers')
```



```
In [12]: sns.catplot(x="smoker", kind="count", hue="sex", palette="pink", data=data)
```

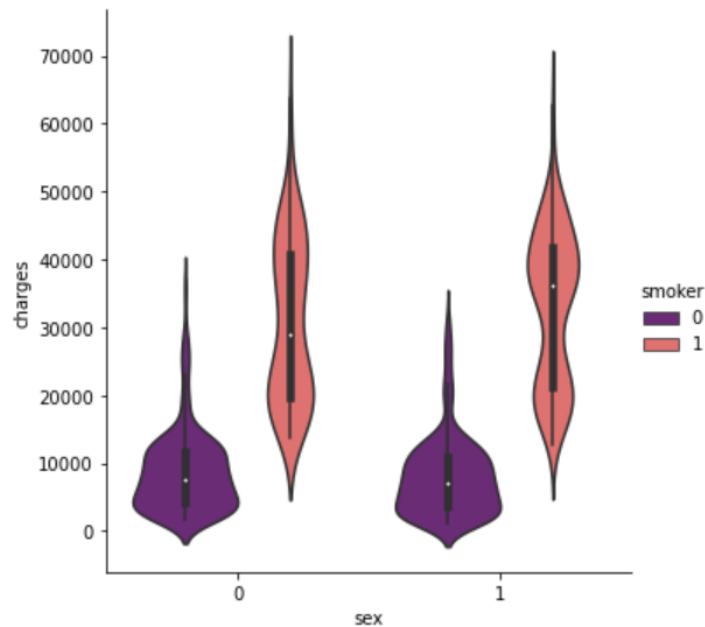
```
Out[12]: <seaborn.axisgrid.FacetGrid at 0x29c22046340>
```



```
In [13]: sns.catplot(x="sex", y="charges", hue="smoker",
                    kind="violin", data=data, palette='magma')
```

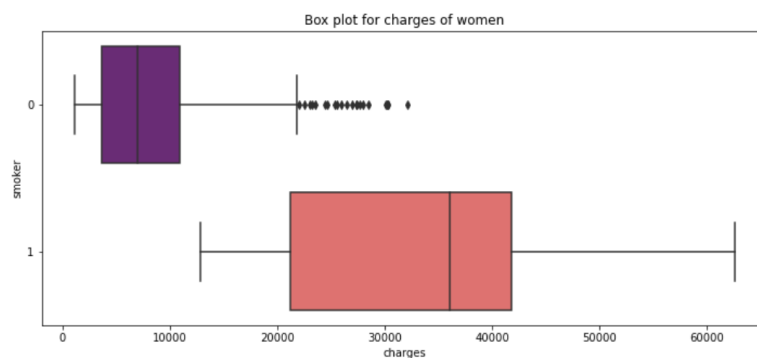
```
Out[13]: <seaborn.axisgrid.FacetGrid at 0x29c1ba90fa0>
```

```
Out[13]: <seaborn.axisgrid.FacetGrid at 0x29c1ba90fa0>
```



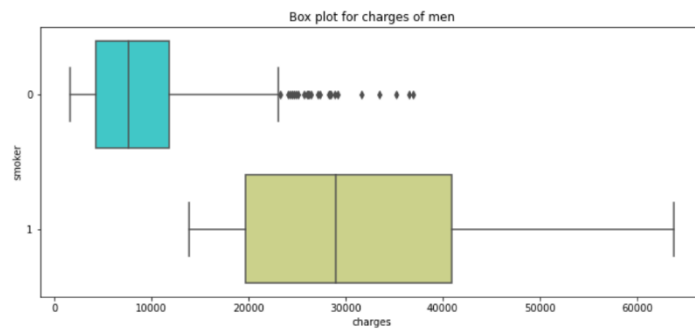
```
In [14]: plt.figure(figsize=(12,5))
plt.title("Box plot for charges of women")
sns.boxplot(y="smoker", x="charges", data = data[(data.sex == 1)] , orient="h", palette = 'magma')
```

```
Out[14]: <AxesSubplot:title={'center':'Box plot for charges of women'}, xlabel='charges', ylabel='smoker'>
```

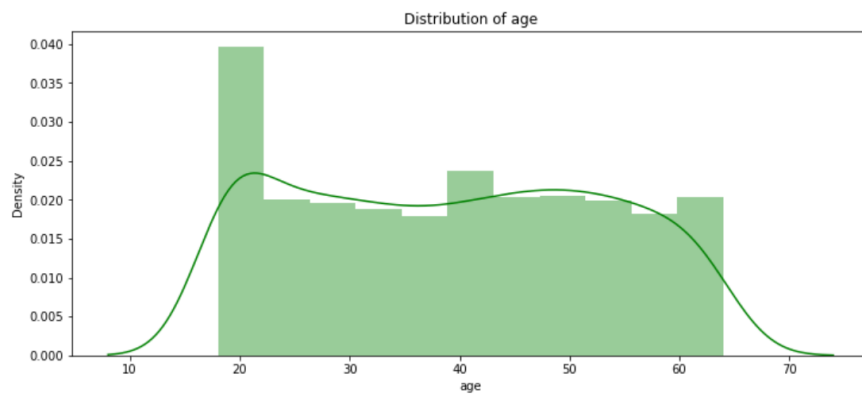



```
In [15]: plt.figure(figsize=(12,5))
plt.title("Box plot for charges of men")
sns.boxplot(y="smoker", x="charges", data = data[(data.sex == 0)], orient="h", palette = 'rainbow')

Out[15]: <AxesSubplot:title={'center':'Box plot for charges of men'}, xlabel='charges', ylabel='smoker'>
```

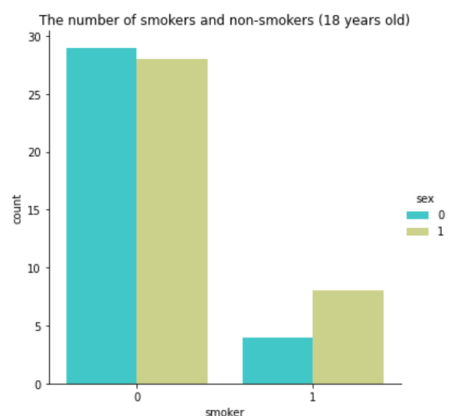


```
In [16]: plt.figure(figsize=(12,5))
plt.title("Distribution of age")
ax = sns.distplot(data["age"], color = 'g')
```



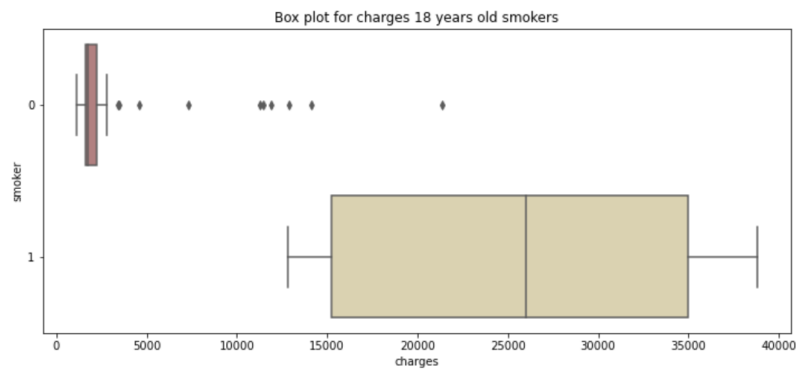
```
In [17]: sns.catplot(x="smoker", kind="count", hue = 'sex', palette="rainbow", data=data[(data.age == 18)])
plt.title("The number of smokers and non-smokers (18 years old)")
```

Out[17]: Text(0.5, 1.0, 'The number of smokers and non-smokers (18 years old)')



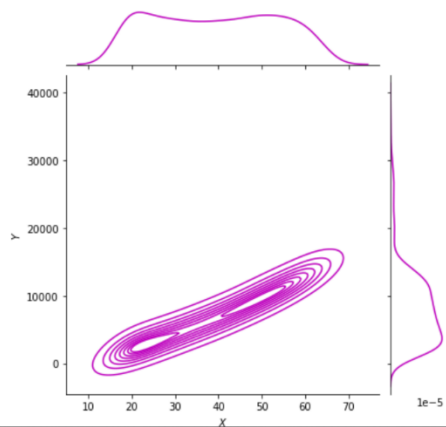
```
In [18]: plt.figure(figsize=(12,5))
plt.title("Box plot for charges 18 years old smokers")
sns.boxplot(y="smoker", x="charges", data = data[(data.age == 18)] , orient="h", palette = 'pink')

Out[18]: <AxesSubplot:title={'center':'Box plot for charges 18 years old smokers'}, xlabel='charges', ylabel='smoker'>
```



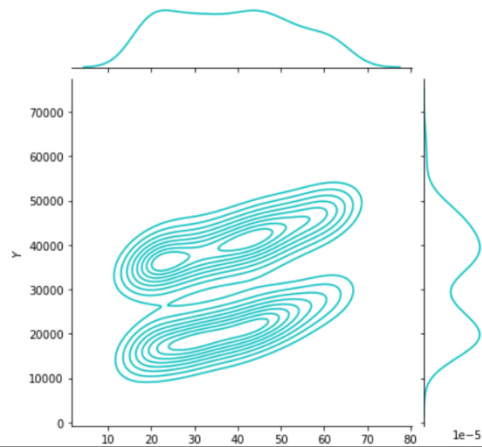
```
In [19]: g = sns.jointplot(x="age", y="charges", data = data[(data.smoker == 0)], kind="kde", color="m")
g.plot_joint(plt.scatter, c="w", s=30, linewidth=1, marker="+")
g.ax_joint.collections[0].set_alpha(0)
g.set_axis_labels("$X$", "$Y$")
ax.set_title('Distribution of charges and age for non-smokers')
```

Out[19]: Text(0.5, 1.0, 'Distribution of charges and age for non-smokers')



```
In [20]: g = sns.jointplot(x="age", y="charges", data = data[(data.smoker == 1)],kind="kde", color="c")
g.plot_joint(pl.scatter, c="w", s=30, linewidth=1, marker="+")
g.ax_joint.collections[0].set_alpha(0)
g.set_axis_labels("$X$", "$Y$")
ax.set_title('Distribution of charges and age for smokers')
```

Out[20]: Text(0.5, 1.0, 'Distribution of charges and age for smokers')



jupyter Untitled27 Last Checkpoint: 7 minutes ago (autosaved)

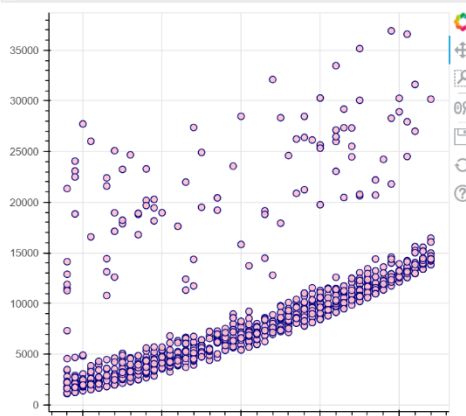
Logout

File Edit View Insert Cell Kernel Widgets Help

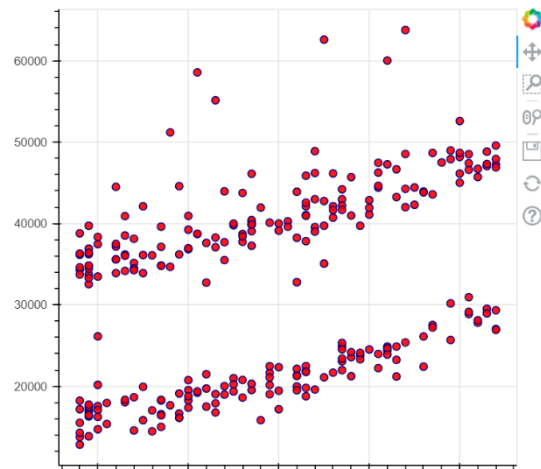
Trusted Python 3

Code

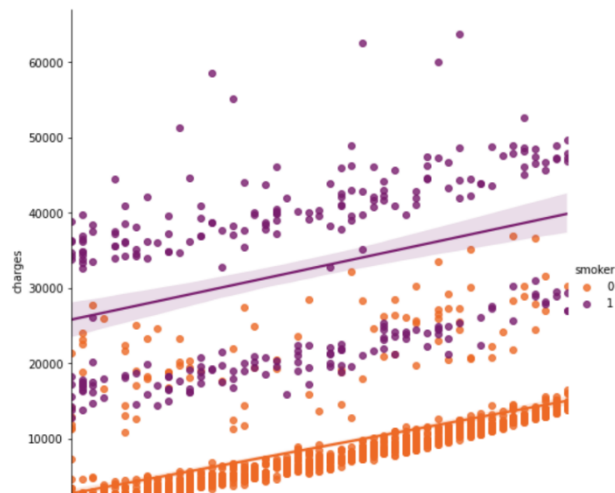
```
p = figure(plot_width=500, plot_height=450)
p.circle(x=data[(data.smoker == 0)].age,y=data[(data.smoker == 0)].charges, size=7, line_color="navy", fill_color="pink", fill_alpha=0.5)
show(p)
```



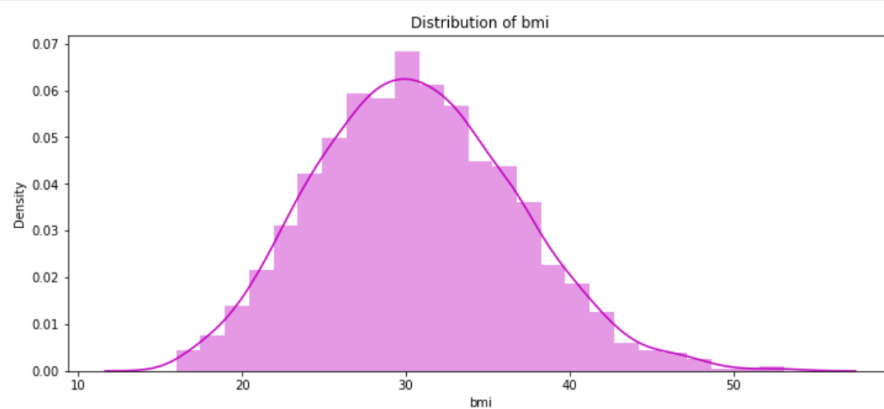
```
In [22]: #smokers
p = figure(plot_width=500, plot_height=450)
p.circle(x=data[(data.smoker == 1)].age,y=data[(data.smoker == 1)].charges, size=7, line_color="navy", fill_color="red", fill
show(p)
```



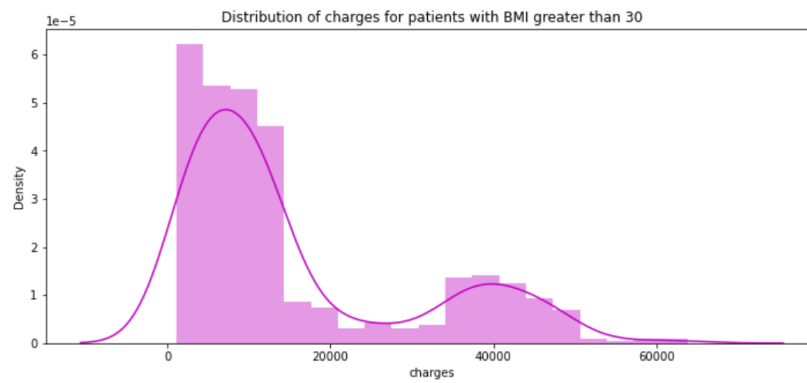
```
In [23]: sns.lmplot(x="age", y="charges", hue="smoker", data=data, palette = 'inferno_r', size = 7)
ax.set_title('Smokers and non-smokers')
Out[23]: Text(0.5, 1.0, 'Smokers and non-smokers')
```



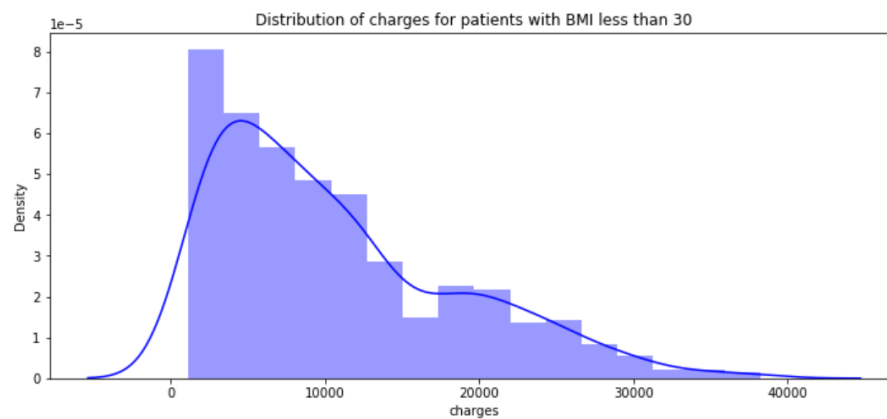
```
In [24]: pl.figure(figsize=(12,5))
pl.title("Distribution of bmi")
ax = sns.distplot(data["bmi"], color = 'm')
```



```
In [25]: ▶ pl.figure(figsize=(12,5))
pl.title("Distribution of charges for patients with BMI greater than 30")
ax = sns.distplot(data[(data.bmi >= 30)]['charges'], color = 'm')
```



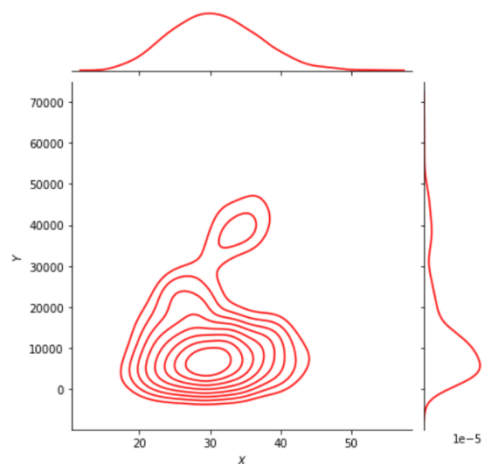
```
In [26]: ▶ pl.figure(figsize=(12,5))
pl.title("Distribution of charges for patients with BMI less than 30")
ax = sns.distplot(data[(data.bmi < 30)]['charges'], color = 'b')
```



```
In [27]: ▶ g = sns.jointplot(x="bmi", y="charges", data = data, kind="kde", color="r")
g.plot_joint(pl.scatter, c="w", s=30, linewidth=1, marker="+")
g.ax_joint.collections[0].set_alpha(0)
g.set_axis_labels("$X$", "$Y$")
ax.set_title('Distribution of bmi and charges')
```

```
g.set_axis_labels("$X$", "$Y$")
ax.set_title('Distribution of bmi and charges')
```

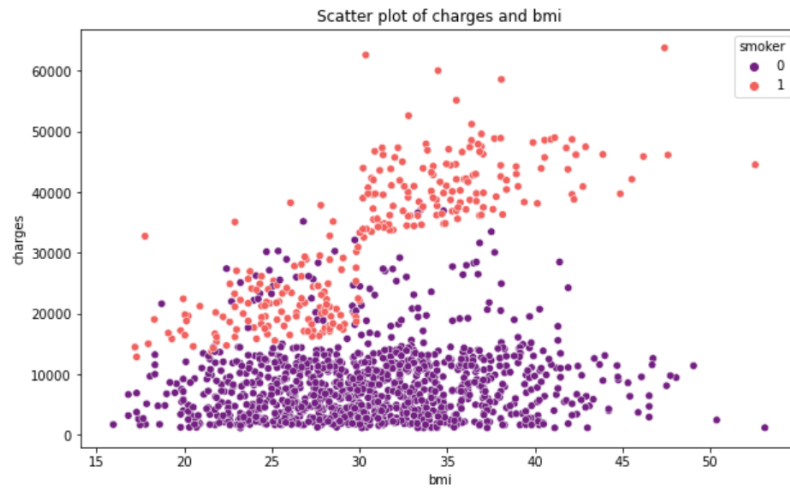
Out[27]: Text(0.5, 1.0, 'Distribution of bmi and charges')



```
In [28]: pl.figure(figsize=(10,6))
ax = sns.scatterplot(x='bmi',y='charges',data=data,palette='magma',hue='smoker')
ax.set_title('Scatter plot of charges and bmi')

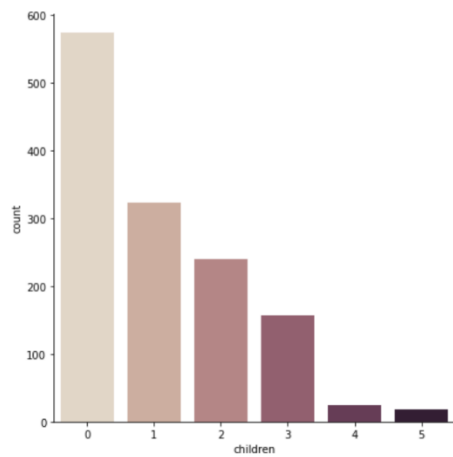
sns.lmplot(x="bmi", y="charges", hue="smoker", data=data, palette = 'magma', size = 8)
```

Out[28]: <seaborn.axisgrid.FacetGrid at 0x29c23bc4c40>



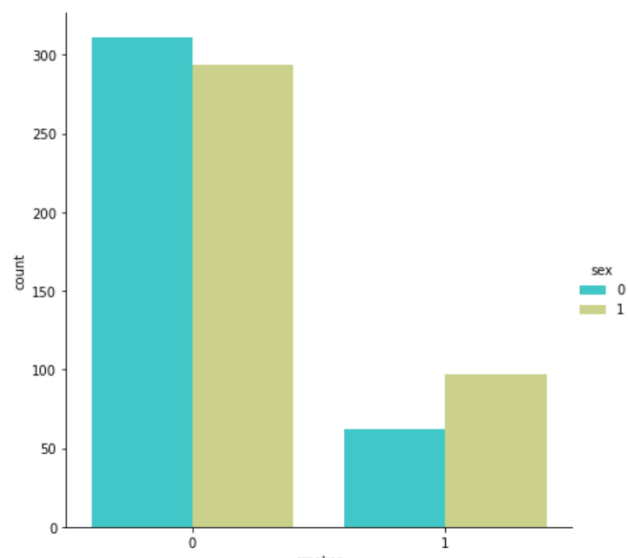
```
In [29]: sns.catplot(x="children", kind="count", palette="ch:.25", data=data, size = 6)
```

```
Out[29]: <seaborn.axisgrid.FacetGrid at 0x29c24c28040>
```



```
In [30]: sns.catplot(x="smoker", kind="count", palette="rainbow", hue = "sex",  
                    data=data[(data.children > 0)], size = 6)  
ax.set_title('Smokers and non-smokers who have childrens')
```

```
Out[30]: Text(0.5, 1.0, 'Smokers and non-smokers who have childrens')
```



```
In [31]: from sklearn.linear_model import LinearRegression
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import PolynomialFeatures
from sklearn.metrics import r2_score, mean_squared_error
from sklearn.ensemble import RandomForestRegressor
```

```
In [32]: x = data.drop(['charges'], axis = 1)
y = data.charges

x_train, x_test, y_train, y_test = train_test_split(x, y, random_state = 0)
lr = LinearRegression().fit(x_train, y_train)

y_train_pred = lr.predict(x_train)
y_test_pred = lr.predict(x_test)

print(lr.score(x_test, y_test))

0.7962732059725786
```

```
In [33]: X = data.drop(['charges', 'region'], axis = 1)
Y = data.charges

quad = PolynomialFeatures(degree = 2)
x_quad = quad.fit_transform(X)

X_train, X_test, Y_train, Y_test = train_test_split(x_quad, Y, random_state = 0)

plr = LinearRegression().fit(X_train, Y_train)
```

```
plr = LinearRegression().fit(X_train, Y_train)

Y_train_pred = plr.predict(X_train)
Y_test_pred = plr.predict(X_test)

print(plr.score(X_test, Y_test))

0.8849197344147236
```

```
In [34]: forest = RandomForestRegressor(n_estimators = 100,
                                      criterion = 'mse',
                                      random_state = 1,
                                      n_jobs = -1)

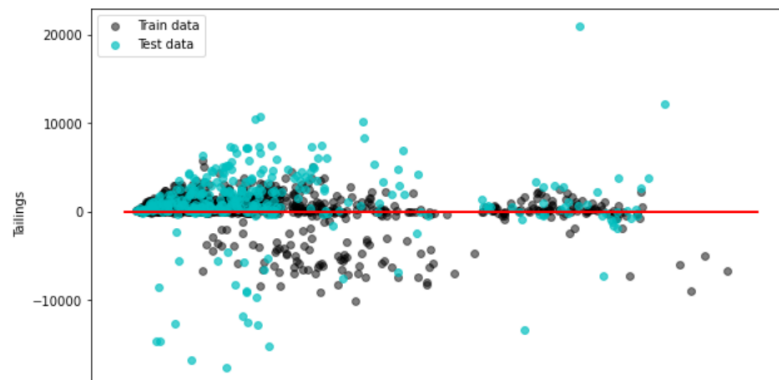
forest.fit(x_train, y_train)
forest_train_pred = forest.predict(x_train)
forest_test_pred = forest.predict(x_test)

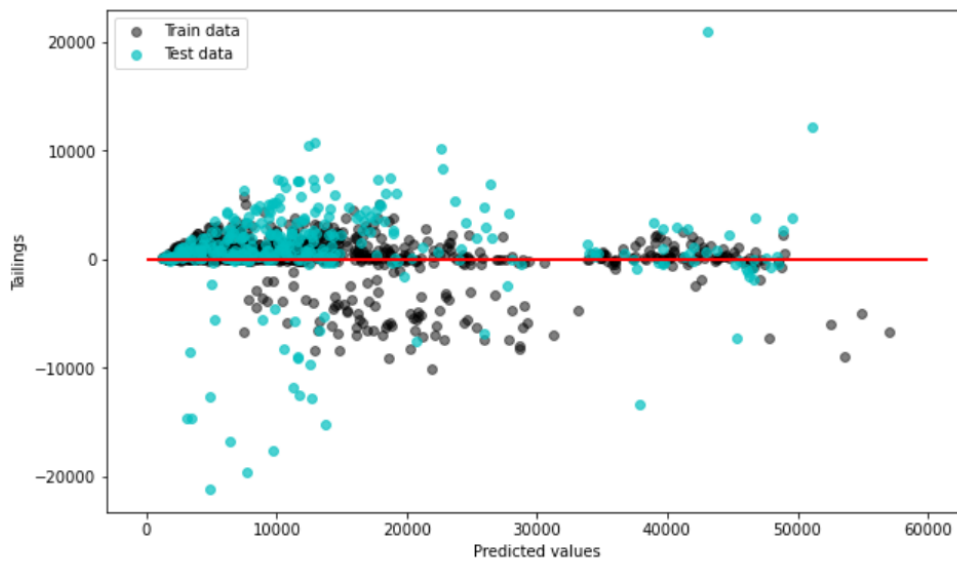
print('MSE train data: %.3f, MSE test data: %.3f' % (
    mean_squared_error(y_train, forest_train_pred),
    mean_squared_error(y_test, forest_test_pred)))
print('R2 train data: %.3f, R2 test data: %.3f' % (
    r2_score(y_train, forest_train_pred),
    r2_score(y_test, forest_test_pred)))

MSE train data: 3746684.434, MSE test data: 19965476.411
R2 train data: 0.974, R2 test data: 0.873
```

```
In [35]: pl.figure(figsize=(10,6))

pl.scatter(forest_train_pred, forest_train_pred - y_train,
           c = 'black', marker = 'o', s = 35, alpha = 0.5,
           label = 'Train data')
pl.scatter(forest_test_pred, forest_test_pred - y_test,
           c = 'c', marker = 'o', s = 35, alpha = 0.7,
           label = 'Test data')
pl.xlabel('Predicted values')
pl.ylabel('Tailings')
pl.legend(loc = 'upper left')
pl.hlines(y = 0, xmin = 0, xmax = 60000, lw = 2, color = 'red')
pl.show()
```





```
In [37]: import numpy as np
from sklearn.metrics import balanced_accuracy_score

#define array of actual classes
actual = np.repeat([1, 0], repeats=[20, 380])

#define array of predicted classes
pred = np.repeat([1, 0, 1, 0], repeats=[15, 5, 5, 375])

#calculate balanced accuracy score
balanced_accuracy_score(actual, pred)
```

Out[37]: 0.868421052631579

Accuracy of data set is 0.8684.