

Sheet 1: tips

sex	smoker	day	time	size	total_bill	tip
Female	No	Sun	Dinner	2	16.99	1.01
Male	No	Sun	Dinner	3	10.34	1.66
Male	No	Sun	Dinner	3	21.01	3.5
Male	No	Sun	Dinner	2	23.68	3.31
Female	No	Sun	Dinner	4	24.59	3.61
Male	No	Sun	Dinner	4	25.29	4.71
Male	No	Sun	Dinner	2	8.77	2
Male	No	Sun	Dinner	4	26.88	3.12
Male	No	Sun	Dinner	2	15.04	1.96
Male	No	Sun	Dinner	2	14.78	3.23
Male	No	Sun	Dinner	2	10.27	1.71
Female	No	Sun	Dinner	4	35.26	5
Male	No	Sun	Dinner	2	15.42	1.57
Male	No	Sun	Dinner	4	18.43	3
Female	No	Sun	Dinner	2	14.83	3.02
Male	No	Sun	Dinner	2	21.58	3.92
Female	No	Sun	Dinner	3	10.33	1.67
Male	No	Sun	Dinner	3	16.29	3.71
Female	No	Sun	Dinner	3	16.97	3.5
Male	No	Sat	Dinner	3	20.65	3.35
Male	No	Sat	Dinner	2	17.92	4.08
Female	No	Sat	Dinner	2	20.29	2.75
Female	No	Sat	Dinner	2	15.77	2.23
Male	No	Sat	Dinner	4	39.42	7.58
Male	No	Sat	Dinner	2	19.82	3.18
Male	No	Sat	Dinner	4	17.81	2.34
Male	No	Sat	Dinner	2	13.37	2
Male	No	Sat	Dinner	2	12.69	2
Male	No	Sat	Dinner	2	21.7	4.3
Female	No	Sat	Dinner	2	19.65	3
Male	No	Sat	Dinner	2	9.55	1.45
Male	No	Sat	Dinner	4	18.35	2.5
Female	No	Sat	Dinner	2	15.06	3
Female	No	Sat	Dinner	4	20.69	2.45
Male	No	Sat	Dinner	2	17.78	3.27

sex	Gender of the customer
smoker	Indicates if the customer is a smoker or not
day	Day of the restaurant visit
time	Indicates whether the tip was for lunch or dinner
size	Number of members dining
total bill	Bill amount in USD
tip	Tip amount in USD

Male	No	Sat	Dinner	3	24.06	3.6
Male	No	Sat	Dinner	3	16.31	2
Female	No	Sat	Dinner	3	16.93	3.07
Male	No	Sat	Dinner	3	18.69	2.31
Male	No	Sat	Dinner	3	31.27	5
Male	No	Sat	Dinner	3	16.04	2.24
Male	No	Sun	Dinner	2	17.46	2.54
Male	No	Sun	Dinner	2	13.94	3.06
Male	No	Sun	Dinner	2	9.68	1.32
Male	No	Sun	Dinner	4	30.4	5.6
Male	No	Sun	Dinner	2	18.29	3
Male	No	Sun	Dinner	2	22.23	5
Male	No	Sun	Dinner	4	32.4	6
Male	No	Sun	Dinner	3	28.55	2.05
Male	No	Sun	Dinner	2	18.04	3
Male	No	Sun	Dinner	2	12.54	2.5
Female	No	Sun	Dinner	2	10.29	2.6
Female	No	Sun	Dinner	4	34.81	5.2
Male	No	Sun	Dinner	2	9.94	1.56
Male	No	Sun	Dinner	4	25.56	4.34
Male	No	Sun	Dinner	2	19.49	3.51
Male	Yes	Sat	Dinner	4	38.01	3
Female	No	Sat	Dinner	2	26.41	1.5
Male	Yes	Sat	Dinner	2	11.24	1.76
Male	No	Sat	Dinner	4	48.27	6.73
Male	Yes	Sat	Dinner	2	20.29	3.21
Male	Yes	Sat	Dinner	2	13.81	2
Male	Yes	Sat	Dinner	2	11.02	1.98
Male	Yes	Sat	Dinner	4	18.29	3.76
Male	No	Sat	Dinner	3	17.59	2.64
Male	No	Sat	Dinner	3	20.08	3.15
Female	No	Sat	Dinner	2	16.45	2.47
Female	Yes	Sat	Dinner	1	3.07	1
Male	No	Sat	Dinner	2	20.23	2.01
Male	Yes	Sat	Dinner	2	15.01	2.09
Male	No	Sat	Dinner	2	12.02	1.97
Female	No	Sat	Dinner	3	17.07	3
Female	Yes	Sat	Dinner	2	26.86	3.14

Female	Yes	Sat	Dinner	2	25.28	5
Female	No	Sat	Dinner	2	14.73	2.2
Male	No	Sat	Dinner	2	10.51	1.25
Male	Yes	Sat	Dinner	2	17.92	3.08
Male	No	Thur	Lunch	4	27.2	4
Male	No	Thur	Lunch	2	22.76	3
Male	No	Thur	Lunch	2	17.29	2.71
Male	Yes	Thur	Lunch	2	19.44	3
Male	No	Thur	Lunch	2	16.66	3.4
Female	No	Thur	Lunch	1	10.07	1.83
Male	Yes	Thur	Lunch	2	32.68	5
Male	No	Thur	Lunch	2	15.98	2.03
Female	No	Thur	Lunch	4	34.83	5.17
Male	No	Thur	Lunch	2	13.03	2
Male	No	Thur	Lunch	2	18.28	4
Male	No	Thur	Lunch	2	24.71	5.85
Male	No	Thur	Lunch	2	21.16	3
Male	Yes	Fri	Dinner	2	28.97	3
Male	No	Fri	Dinner	2	22.49	3.5
Female	Yes	Fri	Dinner	2	5.75	1
Female	Yes	Fri	Dinner	2	16.32	4.3
Female	No	Fri	Dinner	2	22.75	3.25
Male	Yes	Fri	Dinner	4	40.17	4.73
Male	Yes	Fri	Dinner	2	27.28	4
Male	Yes	Fri	Dinner	2	12.03	1.5
Male	Yes	Fri	Dinner	2	21.01	3
Male	No	Fri	Dinner	2	12.46	1.5
Female	Yes	Fri	Dinner	2	11.35	2.5
Female	Yes	Fri	Dinner	2	15.38	3
Female	Yes	Sat	Dinner	3	44.3	2.5
Female	Yes	Sat	Dinner	2	22.42	3.48
Female	No	Sat	Dinner	2	20.92	4.08
Male	Yes	Sat	Dinner	2	15.36	1.64
Male	Yes	Sat	Dinner	2	20.49	4.06
Male	Yes	Sat	Dinner	2	25.21	4.29
Male	No	Sat	Dinner	2	18.24	3.76
Female	Yes	Sat	Dinner	2	14.31	4
Male	No	Sat	Dinner	2	14	3

Female	No	Sat	Dinner	1	7.25	1
Male	No	Sun	Dinner	3	38.07	4
Male	No	Sun	Dinner	2	23.95	2.55
Female	No	Sun	Dinner	3	25.71	4
Female	No	Sun	Dinner	2	17.31	3.5
Male	No	Sun	Dinner	4	29.93	5.07
Female	No	Thur	Lunch	2	10.65	1.5
Female	No	Thur	Lunch	2	12.43	1.8
Female	No	Thur	Lunch	4	24.08	2.92
Male	No	Thur	Lunch	2	11.69	2.31
Female	No	Thur	Lunch	2	13.42	1.68
Male	No	Thur	Lunch	2	14.26	2.5
Male	No	Thur	Lunch	2	15.95	2
Female	No	Thur	Lunch	2	12.48	2.52
Female	No	Thur	Lunch	6	29.8	4.2
Male	No	Thur	Lunch	2	8.52	1.48
Female	No	Thur	Lunch	2	14.52	2
Female	No	Thur	Lunch	2	11.38	2
Male	No	Thur	Lunch	3	22.82	2.18
Male	No	Thur	Lunch	2	19.08	1.5
Female	No	Thur	Lunch	2	20.27	2.83
Female	No	Thur	Lunch	2	11.17	1.5
Female	No	Thur	Lunch	2	12.26	2
Female	No	Thur	Lunch	2	18.26	3.25
Female	No	Thur	Lunch	2	8.51	1.25
Female	No	Thur	Lunch	2	10.33	2
Female	No	Thur	Lunch	2	14.15	2
Male	Yes	Thur	Lunch	2	16	2
Female	No	Thur	Lunch	2	13.16	2.75
Female	No	Thur	Lunch	2	17.47	3.5
Male	No	Thur	Lunch	6	34.3	6.7
Male	No	Thur	Lunch	5	41.19	5
Female	No	Thur	Lunch	6	27.05	5
Female	No	Thur	Lunch	2	16.43	2.3
Female	No	Thur	Lunch	2	8.35	1.5
Female	No	Thur	Lunch	3	18.64	1.36
Female	No	Thur	Lunch	2	11.87	1.63
Male	No	Thur	Lunch	2	9.78	1.73

Male	No	Thur	Lunch	2	7.51	2
Male	No	Sun	Dinner	2	14.07	2.5
Male	No	Sun	Dinner	2	13.13	2
Male	No	Sun	Dinner	3	17.26	2.74
Male	No	Sun	Dinner	4	24.55	2
Male	No	Sun	Dinner	4	19.77	2
Female	No	Sun	Dinner	5	29.85	5.14
Male	No	Sun	Dinner	6	48.17	5
Female	No	Sun	Dinner	4	25	3.75
Female	No	Sun	Dinner	2	13.39	2.61
Male	No	Sun	Dinner	4	16.49	2
Male	No	Sun	Dinner	4	21.5	3.5
Male	No	Sun	Dinner	2	12.66	2.5
Female	No	Sun	Dinner	3	16.21	2
Male	No	Sun	Dinner	2	13.81	2
Female	Yes	Sun	Dinner	2	17.51	3
Male	No	Sun	Dinner	3	24.52	3.48
Male	No	Sun	Dinner	2	20.76	2.24
Male	No	Sun	Dinner	4	31.71	4.5
Female	Yes	Sat	Dinner	2	10.59	1.61
Female	Yes	Sat	Dinner	2	10.63	2
Male	Yes	Sat	Dinner	3	50.81	10
Male	Yes	Sat	Dinner	2	15.81	3.16
Male	Yes	Sun	Dinner	2	7.25	5.15
Male	Yes	Sun	Dinner	2	31.85	3.18
Male	Yes	Sun	Dinner	2	16.82	4
Male	Yes	Sun	Dinner	2	32.9	3.11
Male	Yes	Sun	Dinner	2	17.89	2
Male	Yes	Sun	Dinner	2	14.48	2
Female	Yes	Sun	Dinner	2	9.6	4
Male	Yes	Sun	Dinner	2	34.63	3.55
Male	Yes	Sun	Dinner	4	34.65	3.68
Male	Yes	Sun	Dinner	2	23.33	5.65
Male	Yes	Sun	Dinner	3	45.35	3.5
Male	Yes	Sun	Dinner	4	23.17	6.5
Male	Yes	Sun	Dinner	2	40.55	3
Male	No	Sun	Dinner	5	20.69	5
Female	Yes	Sun	Dinner	3	20.9	3.5

Male	Yes	Sun	Dinner	5	30.46	2
Female	Yes	Sun	Dinner	3	18.15	3.5
Male	Yes	Sun	Dinner	3	23.1	4
Male	Yes	Sun	Dinner	2	15.69	1.5
Female	Yes	Thur	Lunch	2	19.81	4.19
Male	Yes	Thur	Lunch	2	28.44	2.56
Male	Yes	Thur	Lunch	2	15.48	2.02
Male	Yes	Thur	Lunch	2	16.58	4
Male	No	Thur	Lunch	2	7.56	1.44
Male	Yes	Thur	Lunch	2	10.34	2
Female	Yes	Thur	Lunch	4	43.11	5
Female	Yes	Thur	Lunch	2	13	2
Male	Yes	Thur	Lunch	2	13.51	2
Male	Yes	Thur	Lunch	3	18.71	4
Female	Yes	Thur	Lunch	2	12.74	2.01
Female	Yes	Thur	Lunch	2	13	2
Female	Yes	Thur	Lunch	2	16.4	2.5
Male	Yes	Thur	Lunch	4	20.53	4
Female	Yes	Thur	Lunch	3	16.47	3.23
Male	Yes	Sat	Dinner	3	26.59	3.41
Male	Yes	Sat	Dinner	4	38.73	3
Male	Yes	Sat	Dinner	2	24.27	2.03
Female	Yes	Sat	Dinner	2	12.76	2.23
Male	Yes	Sat	Dinner	3	30.06	2
Male	Yes	Sat	Dinner	4	25.89	5.16
Male	No	Sat	Dinner	4	48.33	9
Female	Yes	Sat	Dinner	2	13.27	2.5
Female	Yes	Sat	Dinner	3	28.17	6.5
Female	Yes	Sat	Dinner	2	12.9	1.1
Male	Yes	Sat	Dinner	5	28.15	3
Male	Yes	Sat	Dinner	2	11.59	1.5
Male	Yes	Sat	Dinner	2	7.74	1.44
Female	Yes	Sat	Dinner	4	30.14	3.09
Male	Yes	Fri	Lunch	2	12.16	2.2
Female	Yes	Fri	Lunch	2	13.42	3.48
Male	Yes	Fri	Lunch	1	8.58	1.92
Female	No	Fri	Lunch	3	15.98	3
Male	Yes	Fri	Lunch	2	13.42	1.58

Female	Yes	Fri	Lunch	2	16.27	2.5
Female	Yes	Fri	Lunch	2	10.09	2
Male	No	Sat	Dinner	4	20.45	3
Male	No	Sat	Dinner	2	13.28	2.72
Female	Yes	Sat	Dinner	2	22.12	2.88
Male	Yes	Sat	Dinner	4	24.01	2
Male	Yes	Sat	Dinner	3	15.69	3
Male	No	Sat	Dinner	2	11.61	3.39
Male	No	Sat	Dinner	2	10.77	1.47
Male	Yes	Sat	Dinner	2	15.53	3
Male	No	Sat	Dinner	2	10.07	1.25
Male	Yes	Sat	Dinner	2	12.6	1
Male	Yes	Sat	Dinner	2	32.83	1.17
Female	No	Sat	Dinner	3	35.83	4.67
Male	No	Sat	Dinner	3	29.03	5.92
Female	Yes	Sat	Dinner	2	27.18	2
Male	Yes	Sat	Dinner	2	22.67	2
Male	No	Sat	Dinner	2	17.82	1.75
Female	No	Thur	Dinner	2	18.78	3

Sheet 2: Calculations

Sex	Smoker	Day	Time	Size	Total	Bill	Tip	Sex	Smoker	Day	Time
Female	No	Sun	Dinner	2	16.99	1.01		0	0	3	0
Male	No	Sun	Dinner	3	10.34	1.66		1	0	3	0
Male	No	Sun	Dinner	3	21.01	3.5		1	0	3	0
Male	No	Sun	Dinner	2	23.68	3.31		1	0	3	0
Female	No	Sun	Dinner	4	24.59	3.61		0	0	3	0
Male	No	Sun	Dinner	4	25.29	4.71		1	0	3	0
Male	No	Sun	Dinner	2	8.77	2		1	0	3	0
Male	No	Sun	Dinner	4	26.88	3.12		1	0	3	0
Male	No	Sun	Dinner	2	15.04	1.96		1	0	3	0
Male	No	Sun	Dinner	2	14.78	3.23		1	0	3	0
Male	No	Sun	Dinner	2	10.27	1.71		1	0	3	0
Female	No	Sun	Dinner	4	35.26	5		0	0	3	0
Male	No	Sun	Dinner	2	15.42	1.57		1	0	3	0
Male	No	Sun	Dinner	4	18.43	3		1	0	3	0
Female	No	Sun	Dinner	2	14.83	3.02		0	0	3	0
Male	No	Sun	Dinner	2	21.58	3.92		1	0	3	0
Female	No	Sun	Dinner	3	10.33	1.67		0	0	3	0
Male	No	Sun	Dinner	3	16.29	3.71		1	0	3	0
Female	No	Sun	Dinner	3	16.97	3.5		0	0	3	0
Male	No	Sat	Dinner	3	20.65	3.35		1	0	2	0
Male	No	Sat	Dinner	2	17.92	4.08		1	0	2	0
Female	No	Sat	Dinner	2	20.29	2.75		0	0	2	0
Female	No	Sat	Dinner	2	15.77	2.23		0	0	2	0
Male	No	Sat	Dinner	4	39.42	7.58		1	0	2	0
Male	No	Sat	Dinner	2	19.82	3.18		1	0	2	0
Male	No	Sat	Dinner	4	17.81	2.34		1	0	2	0
Male	No	Sat	Dinner	2	13.37	2		1	0	2	0
Male	No	Sat	Dinner	2	12.69	2		1	0	2	0
Male	No	Sat	Dinner	2	21.7	4.3		1	0	2	0
Female	No	Sat	Dinner	2	19.65	3		0	0	2	0
Male	No	Sat	Dinner	2	9.55	1.45		1	0	2	0
Male	No	Sat	Dinner	4	18.35	2.5		1	0	2	0
Female	No	Sat	Dinner	2	15.06	3		0	0	2	0
Female	No	Sat	Dinner	4	20.69	2.45		0	0	2	0
Male	No	Sat	Dinner	2	17.78	3.27		1	0	2	0
Male	No	Sat	Dinner	3	24.06	3.6		1	0	2	0
Male	No	Sat	Dinner	3	16.31	2		1	0	2	0
Female	No	Sat	Dinner	3	16.93	3.07		0	0	2	0
Male	No	Sat	Dinner	3	18.69	2.31		1	0	2	0
Male	No	Sat	Dinner	3	31.27	5		1	0	2	0
Male	No	Sat	Dinner	3	16.04	2.24		1	0	2	0
Male	No	Sun	Dinner	2	17.46	2.54		1	0	3	0
Male	No	Sun	Dinner	2	13.94	3.06		1	0	3	0

Male	No	Sun	Dinner	2	9.68	1.32	1	0	3	0
Male	No	Sun	Dinner	4	30.4	5.6	1	0	3	0
Male	No	Sun	Dinner	2	18.29	3	1	0	3	0
Male	No	Sun	Dinner	2	22.23	5	1	0	3	0
Male	No	Sun	Dinner	4	32.4	6	1	0	3	0
Male	No	Sun	Dinner	3	28.55	2.05	1	0	3	0
Male	No	Sun	Dinner	2	18.04	3	1	0	3	0
Male	No	Sun	Dinner	2	12.54	2.5	1	0	3	0
Female	No	Sun	Dinner	2	10.29	2.6	0	0	3	0
Female	No	Sun	Dinner	4	34.81	5.2	0	0	3	0
Male	No	Sun	Dinner	2	9.94	1.56	1	0	3	0
Male	No	Sun	Dinner	4	25.56	4.34	1	0	3	0
Male	No	Sun	Dinner	2	19.49	3.51	1	0	3	0
Male	Yes	Sat	Dinner	4	38.01	3	1	1	2	0
Female	No	Sat	Dinner	2	26.41	1.5	0	0	2	0
Male	Yes	Sat	Dinner	2	11.24	1.76	1	1	2	0
Male	No	Sat	Dinner	4	48.27	6.73	1	0	2	0
Male	Yes	Sat	Dinner	2	20.29	3.21	1	1	2	0
Male	Yes	Sat	Dinner	2	13.81	2	1	1	2	0
Male	Yes	Sat	Dinner	2	11.02	1.98	1	1	2	0
Male	Yes	Sat	Dinner	4	18.29	3.76	1	1	2	0
Male	No	Sat	Dinner	3	17.59	2.64	1	0	2	0
Male	No	Sat	Dinner	3	20.08	3.15	1	0	2	0
Female	No	Sat	Dinner	2	16.45	2.47	0	0	2	0
Female	Yes	Sat	Dinner	1	3.07	1	0	1	2	0
Male	No	Sat	Dinner	2	20.23	2.01	1	0	2	0
Male	Yes	Sat	Dinner	2	15.01	2.09	1	1	2	0
Male	No	Sat	Dinner	2	12.02	1.97	1	0	2	0
Female	No	Sat	Dinner	3	17.07	3	0	0	2	0
Female	Yes	Sat	Dinner	2	26.86	3.14	0	1	2	0
Female	Yes	Sat	Dinner	2	25.28	5	0	1	2	0
Female	No	Sat	Dinner	2	14.73	2.2	0	0	2	0
Male	No	Sat	Dinner	2	10.51	1.25	1	0	2	0
Male	Yes	Sat	Dinner	2	17.92	3.08	1	1	2	0
Male	No	Thur	Lunch	4	27.2	4	1	0	0	1
Male	No	Thur	Lunch	2	22.76	3	1	0	0	1
Male	No	Thur	Lunch	2	17.29	2.71	1	0	0	1
Male	Yes	Thur	Lunch	2	19.44	3	1	1	0	1
Male	No	Thur	Lunch	2	16.66	3.4	1	0	0	1
Female	No	Thur	Lunch	1	10.07	1.83	0	0	0	1
Male	Yes	Thur	Lunch	2	32.68	5	1	1	0	1
Male	No	Thur	Lunch	2	15.98	2.03	1	0	0	1
Female	No	Thur	Lunch	4	34.83	5.17	0	0	0	1
Male	No	Thur	Lunch	2	13.03	2	1	0	0	1
Male	No	Thur	Lunch	2	18.28	4	1	0	0	1
Male	No	Thur	Lunch	2	24.71	5.85	1	0	0	1
Male	No	Thur	Lunch	2	21.16	3	1	0	0	1

Male	Yes	Fri	Dinner	2	28.97	3	1	1	1	0
Male	No	Fri	Dinner	2	22.49	3.5	1	0	1	0
Female	Yes	Fri	Dinner	2	5.75	1	0	1	1	0
Female	Yes	Fri	Dinner	2	16.32	4.3	0	1	1	0
Female	No	Fri	Dinner	2	22.75	3.25	0	0	1	0
Male	Yes	Fri	Dinner	4	40.17	4.73	1	1	1	0
Male	Yes	Fri	Dinner	2	27.28	4	1	1	1	0
Male	Yes	Fri	Dinner	2	12.03	1.5	1	1	1	0
Male	Yes	Fri	Dinner	2	21.01	3	1	1	1	0
Male	No	Fri	Dinner	2	12.46	1.5	1	0	1	0
Female	Yes	Fri	Dinner	2	11.35	2.5	0	1	1	0
Female	Yes	Fri	Dinner	2	15.38	3	0	1	1	0
Female	Yes	Sat	Dinner	3	44.3	2.5	0	1	2	0
Female	Yes	Sat	Dinner	2	22.42	3.48	0	1	2	0
Female	No	Sat	Dinner	2	20.92	4.08	0	0	2	0
Male	Yes	Sat	Dinner	2	15.36	1.64	1	1	2	0
Male	Yes	Sat	Dinner	2	20.49	4.06	1	1	2	0
Male	Yes	Sat	Dinner	2	25.21	4.29	1	1	2	0
Male	No	Sat	Dinner	2	18.24	3.76	1	0	2	0
Female	Yes	Sat	Dinner	2	14.31	4	0	1	2	0
Male	No	Sat	Dinner	2	14	3	1	0	2	0
Female	No	Sat	Dinner	1	7.25	1	0	0	2	0
Male	No	Sun	Dinner	3	38.07	4	1	0	3	0
Male	No	Sun	Dinner	2	23.95	2.55	1	0	3	0
Female	No	Sun	Dinner	3	25.71	4	0	0	3	0
Female	No	Sun	Dinner	2	17.31	3.5	0	0	3	0
Male	No	Sun	Dinner	4	29.93	5.07	1	0	3	0
Female	No	Thur	Lunch	2	10.65	1.5	0	0	0	1
Female	No	Thur	Lunch	2	12.43	1.8	0	0	0	1
Female	No	Thur	Lunch	4	24.08	2.92	0	0	0	1
Male	No	Thur	Lunch	2	11.69	2.31	1	0	0	1
Female	No	Thur	Lunch	2	13.42	1.68	0	0	0	1
Male	No	Thur	Lunch	2	14.26	2.5	1	0	0	1
Male	No	Thur	Lunch	2	15.95	2	1	0	0	1
Female	No	Thur	Lunch	2	12.48	2.52	0	0	0	1
Female	No	Thur	Lunch	6	29.8	4.2	0	0	0	1
Male	No	Thur	Lunch	2	8.52	1.48	1	0	0	1
Female	No	Thur	Lunch	2	14.52	2	0	0	0	1
Female	No	Thur	Lunch	2	11.38	2	0	0	0	1
Male	No	Thur	Lunch	3	22.82	2.18	1	0	0	1
Male	No	Thur	Lunch	2	19.08	1.5	1	0	0	1
Female	No	Thur	Lunch	2	20.27	2.83	0	0	0	1
Female	No	Thur	Lunch	2	11.17	1.5	0	0	0	1
Female	No	Thur	Lunch	2	12.26	2	0	0	0	1
Female	No	Thur	Lunch	2	18.26	3.25	0	0	0	1
Female	No	Thur	Lunch	2	8.51	1.25	0	0	0	1
Female	No	Thur	Lunch	2	10.33	2	0	0	0	1

Female	No	Thur	Lunch	2	14.15	2	0	0	0	1
Male	Yes	Thur	Lunch	2	16	2	1	1	0	1
Female	No	Thur	Lunch	2	13.16	2.75	0	0	0	1
Female	No	Thur	Lunch	2	17.47	3.5	0	0	0	1
Male	No	Thur	Lunch	6	34.3	6.7	1	0	0	1
Male	No	Thur	Lunch	5	41.19	5	1	0	0	1
Female	No	Thur	Lunch	6	27.05	5	0	0	0	1
Female	No	Thur	Lunch	2	16.43	2.3	0	0	0	1
Female	No	Thur	Lunch	2	8.35	1.5	0	0	0	1
Female	No	Thur	Lunch	3	18.64	1.36	0	0	0	1
Female	No	Thur	Lunch	2	11.87	1.63	0	0	0	1
Male	No	Thur	Lunch	2	9.78	1.73	1	0	0	1
Male	No	Thur	Lunch	2	7.51	2	1	0	0	1
Male	No	Sun	Dinner	2	14.07	2.5	1	0	3	0
Male	No	Sun	Dinner	2	13.13	2	1	0	3	0
Male	No	Sun	Dinner	3	17.26	2.74	1	0	3	0
Male	No	Sun	Dinner	4	24.55	2	1	0	3	0
Male	No	Sun	Dinner	4	19.77	2	1	0	3	0
Female	No	Sun	Dinner	5	29.85	5.14	0	0	3	0
Male	No	Sun	Dinner	6	48.17	5	1	0	3	0
Female	No	Sun	Dinner	4	25	3.75	0	0	3	0
Female	No	Sun	Dinner	2	13.39	2.61	0	0	3	0
Male	No	Sun	Dinner	4	16.49	2	1	0	3	0
Male	No	Sun	Dinner	4	21.5	3.5	1	0	3	0
Male	No	Sun	Dinner	2	12.66	2.5	1	0	3	0
Female	No	Sun	Dinner	3	16.21	2	0	0	3	0
Male	No	Sun	Dinner	2	13.81	2	1	0	3	0
Female	Yes	Sun	Dinner	2	17.51	3	0	1	3	0
Male	No	Sun	Dinner	3	24.52	3.48	1	0	3	0
Male	No	Sun	Dinner	2	20.76	2.24	1	0	3	0
Male	No	Sun	Dinner	4	31.71	4.5	1	0	3	0
Female	Yes	Sat	Dinner	2	10.59	1.61	0	1	2	0
Female	Yes	Sat	Dinner	2	10.63	2	0	1	2	0
Male	Yes	Sat	Dinner	3	50.81	10	1	1	2	0
Male	Yes	Sat	Dinner	2	15.81	3.16	1	1	2	0
Male	Yes	Sun	Dinner	2	7.25	5.15	1	1	3	0
Male	Yes	Sun	Dinner	2	31.85	3.18	1	1	3	0
Male	Yes	Sun	Dinner	2	16.82	4	1	1	3	0
Male	Yes	Sun	Dinner	2	32.9	3.11	1	1	3	0
Male	Yes	Sun	Dinner	2	17.89	2	1	1	3	0
Male	Yes	Sun	Dinner	2	14.48	2	1	1	3	0
Female	Yes	Sun	Dinner	2	9.6	4	0	1	3	0
Male	Yes	Sun	Dinner	2	34.63	3.55	1	1	3	0
Male	Yes	Sun	Dinner	4	34.65	3.68	1	1	3	0
Male	Yes	Sun	Dinner	2	23.33	5.65	1	1	3	0
Male	Yes	Sun	Dinner	3	45.35	3.5	1	1	3	0
Male	Yes	Sun	Dinner	4	23.17	6.5	1	1	3	0

Male	Yes	Sun	Dinner	2	40.55	3	1	1	3	0
Male	No	Sun	Dinner	5	20.69	5	1	0	3	0
Female	Yes	Sun	Dinner	3	20.9	3.5	0	1	3	0
Male	Yes	Sun	Dinner	5	30.46	2	1	1	3	0
Female	Yes	Sun	Dinner	3	18.15	3.5	0	1	3	0
Male	Yes	Sun	Dinner	3	23.1	4	1	1	3	0
Male	Yes	Sun	Dinner	2	15.69	1.5	1	1	3	0
Female	Yes	Thur	Lunch	2	19.81	4.19	0	1	0	1
Male	Yes	Thur	Lunch	2	28.44	2.56	1	1	0	1
Male	Yes	Thur	Lunch	2	15.48	2.02	1	1	0	1
Male	Yes	Thur	Lunch	2	16.58	4	1	1	0	1
Male	No	Thur	Lunch	2	7.56	1.44	1	0	0	1
Male	Yes	Thur	Lunch	2	10.34	2	1	1	0	1
Female	Yes	Thur	Lunch	4	43.11	5	0	1	0	1
Female	Yes	Thur	Lunch	2	13	2	0	1	0	1
Male	Yes	Thur	Lunch	2	13.51	2	1	1	0	1
Male	Yes	Thur	Lunch	3	18.71	4	1	1	0	1
Female	Yes	Thur	Lunch	2	12.74	2.01	0	1	0	1
Female	Yes	Thur	Lunch	2	13	2	0	1	0	1
Female	Yes	Thur	Lunch	2	16.4	2.5	0	1	0	1
Male	Yes	Thur	Lunch	4	20.53	4	1	1	0	1
Female	Yes	Thur	Lunch	3	16.47	3.23	0	1	0	1
Male	Yes	Sat	Dinner	3	26.59	3.41	1	1	2	0
Male	Yes	Sat	Dinner	4	38.73	3	1	1	2	0
Male	Yes	Sat	Dinner	2	24.27	2.03	1	1	2	0
Female	Yes	Sat	Dinner	2	12.76	2.23	0	1	2	0
Male	Yes	Sat	Dinner	3	30.06	2	1	1	2	0
Male	Yes	Sat	Dinner	4	25.89	5.16	1	1	2	0
Male	No	Sat	Dinner	4	48.33	9	1	0	2	0
Female	Yes	Sat	Dinner	2	13.27	2.5	0	1	2	0
Female	Yes	Sat	Dinner	3	28.17	6.5	0	1	2	0
Female	Yes	Sat	Dinner	2	12.9	1.1	0	1	2	0
Male	Yes	Sat	Dinner	5	28.15	3	1	1	2	0
Male	Yes	Sat	Dinner	2	11.59	1.5	1	1	2	0
Male	Yes	Sat	Dinner	2	7.74	1.44	1	1	2	0
Female	Yes	Sat	Dinner	4	30.14	3.09	0	1	2	0
Male	Yes	Fri	Lunch	2	12.16	2.2	1	1	1	1
Female	Yes	Fri	Lunch	2	13.42	3.48	0	1	1	1
Male	Yes	Fri	Lunch	1	8.58	1.92	1	1	1	1
Female	No	Fri	Lunch	3	15.98	3	0	0	1	1
Male	Yes	Fri	Lunch	2	13.42	1.58	1	1	1	1
Female	Yes	Fri	Lunch	2	16.27	2.5	0	1	1	1
Female	Yes	Fri	Lunch	2	10.09	2	0	1	1	1
Male	No	Sat	Dinner	4	20.45	3	1	0	2	0
Male	No	Sat	Dinner	2	13.28	2.72	1	0	2	0
Female	Yes	Sat	Dinner	2	22.12	2.88	0	1	2	0
Male	Yes	Sat	Dinner	4	24.01	2	1	1	2	0

Male	Yes	Sat	Dinner	3	15.69	3	1	1	2	0
Male	No	Sat	Dinner	2	11.61	3.39	1	0	2	0
Male	No	Sat	Dinner	2	10.77	1.47	1	0	2	0
Male	Yes	Sat	Dinner	2	15.53	3	1	1	2	0
Male	No	Sat	Dinner	2	10.07	1.25	1	0	2	0
Male	Yes	Sat	Dinner	2	12.6	1	1	1	2	0
Male	Yes	Sat	Dinner	2	32.83	1.17	1	1	2	0
Female	No	Sat	Dinner	3	35.83	4.67	0	0	2	0
Male	No	Sat	Dinner	3	29.03	5.92	1	0	2	0
Female	Yes	Sat	Dinner	2	27.18	2	0	1	2	0
Male	Yes	Sat	Dinner	2	22.67	2	1	1	2	0
Male	No	Sat	Dinner	2	17.82	1.75	1	0	2	0
Female	No	Thur	Dinner	2	18.78	3	0	0	0	0

UNIQUE			
Sex	Smoker	Day	Time
Female	No	Sun	Dinner
Male	Yes	Sat	Lunch
		Thur	
		Fri	

LEGENDS			
Sex	Smoker	Day	Time
Female- 0	No- 0	Sun- 3	Dinner- 0
Male- 1	Yes- 1	Sat- 2	Lunch- 1
		Thur- 0	
		Fri- 1	

Sheet 3: ProcessedData

Sex	Smoker	Day	Time	Size	Total Bill	Tip	Predicted Tip	Difference		
0	0	3	0	2	16.99	1.01	2.630765768	-1.620765768		
1	0	3	0	3	10.34	1.66	2.207073406	-0.547073406		
1	0	3	0	3	21.01	3.5	3.195514412	0.304485588		
1	0	3	0	2	23.68	3.31	3.250509941	0.059490059		
0	0	3	0	4	24.59	3.61	3.719502603	-0.109502603		
1	0	3	0	4	25.29	4.71	3.784348779	0.925651221		
1	0	3	0	2	8.77	2	1.869286379	0.130713621	MSE	1.018461
1	0	3	0	4	26.88	3.12	3.931642238	-0.811642238	RMSE	1.009188
1	0	3	0	2	15.04	1.96	2.450122847	-0.490122847		
1	0	3	0	2	14.78	3.23	2.426037124	0.803962876		
1	0	3	0	2	10.27	1.71	2.008242472	-0.298242472		
0	0	3	0	4	35.26	5	4.707943609	0.292056391		
1	0	3	0	2	15.42	1.57	2.485325057	-0.915325057		
1	0	3	0	4	18.43	3	3.148856249	-0.148856249		
0	0	3	0	2	14.83	3.02	2.430668994	0.589331006		
1	0	3	0	2	21.58	3.92	3.055971411	0.864028589		
0	0	3	0	3	10.33	1.67	2.206147032	-0.536147032		
1	0	3	0	3	16.29	3.71	2.758265907	0.951734093		
0	0	3	0	3	16.97	3.5	2.821259336	0.678740664		
1	0	2	0	3	20.65	3.35	3.16216495	0.18783505		
1	0	2	0	2	17.92	4.08	2.716918545	1.363081455		
0	0	2	0	2	20.29	2.75	2.936469172	-0.186469172		
0	0	2	0	2	15.77	2.23	2.517748145	-0.287748145		
1	0	2	0	4	39.42	7.58	5.093315173	2.486684827		
1	0	2	0	2	19.82	3.18	2.892929596	0.287070404		
1	0	2	0	4	17.81	2.34	3.091421064	-0.751421064		
1	0	2	0	2	13.37	2	2.295418397	-0.295418397		
1	0	2	0	2	12.69	2	2.232424968	-0.232424968		
1	0	2	0	2	21.7	4.3	3.067087899	1.232912101		
0	0	2	0	2	19.65	3	2.877181239	0.122818761		
1	0	2	0	2	9.55	1.45	1.941543548	-0.491543548		
1	0	2	0	4	18.35	2.5	3.141445257	-0.641445257		
0	0	2	0	2	15.06	3	2.451975595	0.548024405		
0	0	2	0	4	20.69	2.45	3.358216762	-0.908216762		
1	0	2	0	2	17.78	3.27	2.70394931	0.56605069		
1	0	2	0	3	24.06	3.6	3.478058467	0.121941533		
1	0	2	0	3	16.31	2	2.760118655	-0.760118655		
0	0	2	0	3	16.93	3.07	2.81755384	0.25244616		
1	0	2	0	3	18.69	2.31	2.980595655	-0.670595655		
1	0	2	0	3	31.27	5	4.145974086	0.854025914		
1	0	2	0	3	16.04	2.24	2.735106558	-0.495106558		
1	0	3	0	2	17.46	2.54	2.674305343	-0.134305343		
1	0	3	0	2	13.94	3.06	2.348221712	0.711778288		

1	0	3	0	2	9.68	1.32	1.953586409	-0.633586409
1	0	3	0	4	30.4	5.6	4.257725869	1.342274131
1	0	3	0	2	18.29	3	2.751194381	0.248805619
1	0	3	0	2	22.23	5	3.116185718	1.883814282
1	0	3	0	4	32.4	6	4.443000659	1.556999341
1	0	3	0	3	28.55	2.05	3.894000372	-1.844000372
1	0	3	0	2	18.04	3	2.728035032	0.271964968
1	0	3	0	2	12.54	2.5	2.218529359	0.281470641
0	0	3	0	2	10.29	2.6	2.01009522	0.58990478
0	0	3	0	4	34.81	5.2	4.666256781	0.533743219
1	0	3	0	2	9.94	1.56	1.977672132	-0.417672132
1	0	3	0	4	25.56	4.34	3.809360876	0.530639124
1	0	3	0	2	19.49	3.51	2.862359255	0.647640745
1	1	2	0	4	38.01	3	4.962696446	-1.962696446
0	0	2	0	2	26.41	1.5	3.50341003	-2.00341003
1	1	2	0	2	11.24	1.76	2.098100745	-0.338100745
1	0	2	0	4	48.27	6.73	5.91315612	0.81684388
1	1	2	0	2	20.29	3.21	2.936469172	0.273530828
1	1	2	0	2	13.81	2	2.336178851	-0.336178851
1	1	2	0	2	11.02	1.98	2.077720518	-0.097720518
1	1	2	0	4	18.29	3.76	3.135887013	0.624112987
1	0	2	0	3	17.59	2.64	2.878694521	-0.238694521
1	0	2	0	3	20.08	3.15	3.109361635	0.040638365
0	0	2	0	2	16.45	2.47	2.580741574	-0.110741574
0	1	2	0	1	3.07	1	1.148906911	-0.148906911
1	0	2	0	2	20.23	2.01	2.930910928	-0.920910928
1	1	2	0	2	15.01	2.09	2.447343725	-0.357343725
1	0	2	0	2	12.02	1.97	2.170357914	-0.200357914
0	0	2	0	3	17.07	3	2.830523075	0.169476925
0	1	2	0	2	26.86	3.14	3.545096858	-0.405096858
0	1	2	0	2	25.28	5	3.398729773	1.601270227
0	0	2	0	2	14.73	2.2	2.421405254	-0.221405254
1	0	2	0	2	10.51	1.25	2.030475447	-0.780475447
1	1	2	0	2	17.92	3.08	2.716918545	0.363081455
1	0	0	1	4	27.2	4	3.961286204	0.038713796
1	0	0	1	2	22.76	3	3.165283538	-0.165283538
1	0	0	1	2	17.29	2.71	2.658556986	0.051443014
1	1	0	1	2	19.44	3	2.857727386	0.142272614
1	0	0	1	2	16.66	3.4	2.600195427	0.799804573
0	0	0	1	1	10.07	1.83	1.797368677	0.032631323
1	1	0	1	2	32.68	5	4.084246498	0.915753502
1	0	0	1	2	15.98	2.03	2.537201998	-0.507201998
0	0	0	1	4	34.83	5.17	4.668109529	0.501890471
1	0	0	1	2	13.03	2	2.263921683	-0.263921683
1	0	0	1	2	18.28	4	2.750268007	1.249731993
1	0	0	1	2	24.71	5.85	3.345926458	2.504073542
1	0	0	1	2	21.16	3	3.017063705	-0.017063705

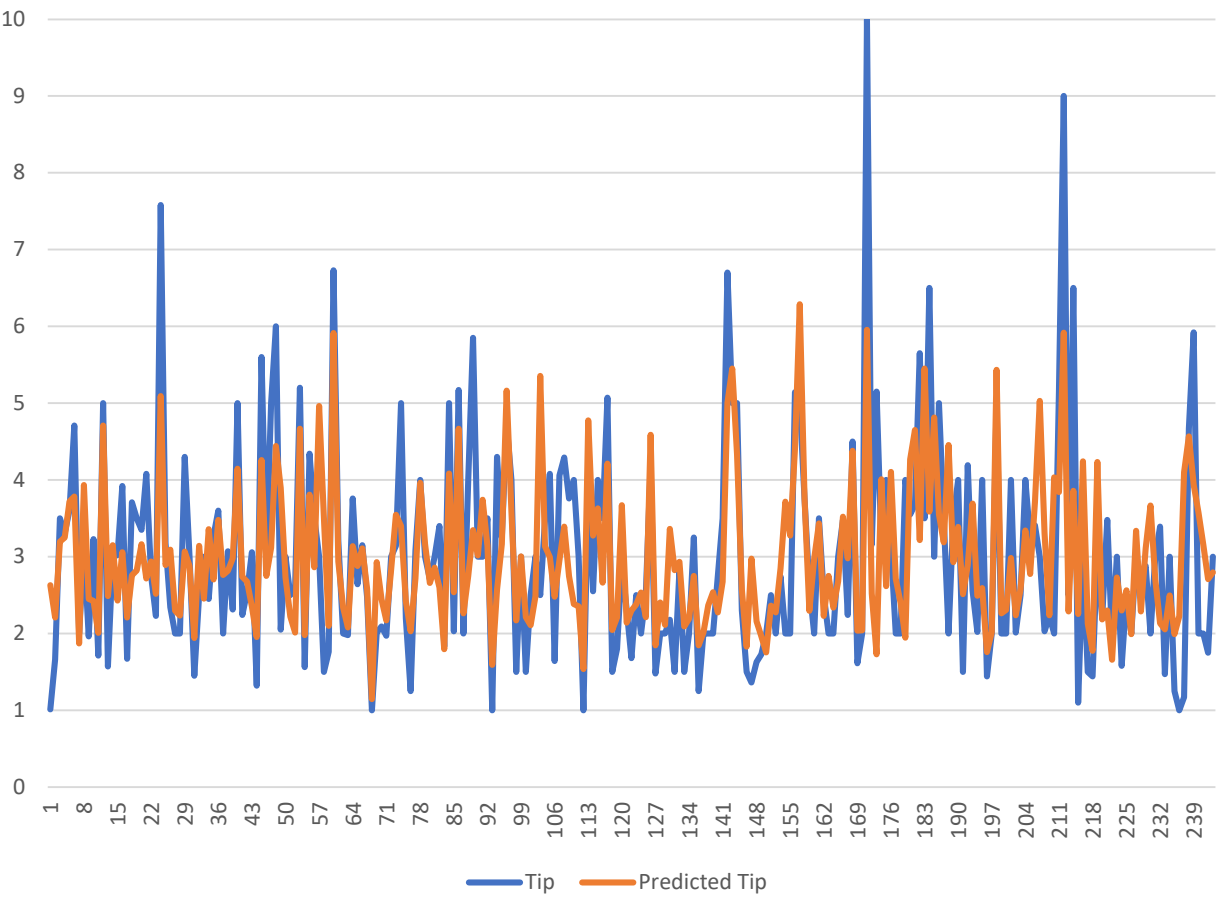
1	1	1	0	2	28.97	3	3.740561762	-0.740561762
1	0	1	0	2	22.49	3.5	3.140271441	0.359728559
0	1	1	0	2	5.75	1	1.589521446	-0.589521446
0	1	1	0	2	16.32	4.3	2.568698713	1.731301287
0	0	1	0	2	22.75	3.25	3.164357164	0.085642836
1	1	1	0	4	40.17	4.73	5.162793219	-0.432793219
1	1	1	0	2	27.28	4	3.584004564	0.415995436
1	1	1	0	2	12.03	1.5	2.171284288	-0.671284288
1	1	1	0	2	21.01	3	3.003168096	-0.003168096
1	0	1	0	2	12.46	1.5	2.211118367	-0.711118367
0	1	1	0	2	11.35	2.5	2.108290859	0.391709141
0	1	1	0	2	15.38	3	2.481619561	0.518380439
0	1	2	0	3	44.3	2.5	5.353039345	-2.853039345
0	1	2	0	2	22.42	3.48	3.133786823	0.346213177
0	0	2	0	2	20.92	4.08	2.994830731	1.085169269
1	1	2	0	2	15.36	1.64	2.479766813	-0.839766813
1	1	2	0	2	20.49	4.06	2.954996651	1.105003349
1	1	2	0	2	25.21	4.29	3.392245156	0.897754844
1	0	2	0	2	18.24	3.76	2.746562511	1.013437489
0	1	2	0	2	14.31	4	2.382497549	1.617502451
1	0	2	0	2	14	3	2.353779956	0.646220044
0	0	2	0	1	7.25	1	1.536131223	-0.536131223
1	0	3	0	3	38.07	4	4.775908373	-0.775908373
1	0	3	0	2	23.95	2.55	3.275522038	-0.725522038
0	0	3	0	3	25.71	4	3.630910169	0.369089831
0	0	3	0	2	17.31	3.5	2.660409734	0.839590266
1	0	3	0	4	29.93	5.07	4.214186293	0.855813707
0	0	0	1	2	10.65	1.5	2.043444682	-0.543444682
0	0	0	1	2	12.43	1.8	2.208339246	-0.408339246
0	0	0	1	4	24.08	2.92	3.672257531	-0.752257531
1	0	0	1	2	11.69	2.31	2.139787573	0.170212427
0	0	0	1	2	13.42	1.68	2.300050267	-0.620050267
1	0	0	1	2	14.26	2.5	2.377865679	0.122134321
1	0	0	1	2	15.95	2	2.534422877	-0.534422877
0	0	0	1	2	12.48	2.52	2.212971115	0.307028885
0	0	0	1	6	29.8	4.2	4.586836064	-0.386836064
1	0	0	1	2	8.52	1.48	1.846127031	-0.366127031
0	0	0	1	2	14.52	2	2.401951402	-0.401951402
0	0	0	1	2	11.38	2	2.111069981	-0.111069981
1	0	0	1	3	22.82	2.18	3.363188097	-1.183188097
1	0	0	1	2	19.08	1.5	2.824377923	-1.324377923
0	0	0	1	2	20.27	2.83	2.934616424	-0.104616424
0	0	0	1	2	11.17	1.5	2.091616128	-0.591616128
0	0	0	1	2	12.26	2	2.192590888	-0.192590888
0	0	0	1	2	18.26	3.25	2.748415259	0.501584741
0	0	0	1	2	8.51	1.25	1.845200657	-0.595200657
0	0	0	1	2	10.33	2	2.013800716	-0.013800716

0	0	0	1	2	14.15	2	2.367675565	-0.367675565
1	1	0	1	2	16	2	2.539054746	-0.539054746
0	0	0	1	2	13.16	2.75	2.275964544	0.474035456
0	0	0	1	2	17.47	3.5	2.675231717	0.824768283
1	0	0	1	6	34.3	6.7	5.003704342	1.696295658
1	0	0	1	5	41.19	5	5.449629678	-0.449629678
0	0	0	1	6	27.05	5	4.332083227	0.667916773
0	0	0	1	2	16.43	2.3	2.578888826	-0.278888826
0	0	0	1	2	8.35	1.5	1.830378673	-0.330378673
0	0	0	1	3	18.64	1.36	2.975963786	-1.615963786
0	0	0	1	2	11.87	1.63	2.156462304	-0.526462304
1	0	0	1	2	9.78	1.73	1.962850148	-0.232850148
1	0	0	1	2	7.51	2	1.752563261	0.247436739
1	0	3	0	2	14.07	2.5	2.360264574	0.139735426
1	0	3	0	2	13.13	2	2.273185422	-0.273185422
1	0	3	0	3	17.26	2.74	2.84812418	-0.10812418
1	0	3	0	4	24.55	2	3.715797107	-1.715797107
1	0	3	0	4	19.77	2	3.272990358	-1.272990358
0	0	3	0	5	29.85	5.14	4.399121617	0.740878383
1	0	3	0	6	48.17	5	6.288585013	-1.288585013
0	0	3	0	4	25	3.75	3.757483935	-0.007483935
0	0	3	0	2	13.39	2.61	2.297271145	0.312728855
1	0	3	0	4	16.49	2	2.969139702	-0.969139702
1	0	3	0	4	21.5	3.5	3.433253052	0.066746948
1	0	3	0	2	12.66	2.5	2.229645847	0.270354153
0	0	3	0	3	16.21	2	2.750854915	-0.750854915
1	0	3	0	2	13.81	2	2.336178851	-0.336178851
0	1	3	0	2	17.51	3	2.678937213	0.321062787
1	0	3	0	3	24.52	3.48	3.520671669	-0.040671669
1	0	3	0	2	20.76	2.24	2.980008747	-0.740008747
1	0	3	0	4	31.71	4.5	4.379080856	0.120919144
0	1	2	0	2	10.59	1.61	2.037886439	-0.427886439
0	1	2	0	2	10.63	2	2.041591934	-0.041591934
1	1	2	0	3	50.81	10	5.956108788	4.043891212
1	1	2	0	2	15.81	3.16	2.521453641	0.638546359
1	1	3	0	2	7.25	5.15	1.728477539	3.421522461
1	1	3	0	2	31.85	3.18	4.00735746	-0.82735746
1	1	3	0	2	16.82	4	2.61501741	1.38498259
1	1	3	0	2	32.9	3.11	4.104626724	-0.994626724
1	1	3	0	2	17.89	2	2.714139423	-0.714139423
1	1	3	0	2	14.48	2	2.398245906	-0.398245906
0	1	3	0	2	9.6	4	1.946175417	2.053824583
1	1	3	0	2	34.63	3.55	4.264889418	-0.714889418
1	1	3	0	4	34.65	3.68	4.651434798	-0.971434798
1	1	3	0	2	23.33	5.65	3.218086853	2.431913147
1	1	3	0	3	45.35	3.5	5.45030861	-1.95030861
1	1	3	0	4	23.17	6.5	3.587957502	2.912042498

1	1	3	0	2	40.55	3	4.813302797	-1.813302797
1	0	3	0	5	20.69	5	3.550563078	1.449436922
0	1	3	0	3	20.9	3.5	3.185324299	0.314675701
1	1	3	0	5	30.46	2	4.455630428	-2.455630428
0	1	3	0	3	18.15	3.5	2.930571462	0.569428538
1	1	3	0	3	23.1	4	3.389126568	0.610873432
1	1	3	0	2	15.69	1.5	2.510337154	-1.010337154
0	1	0	1	2	19.81	4.19	2.892003222	1.297996778
1	1	0	1	2	28.44	2.56	3.691463942	-1.131463942
1	1	0	1	2	15.48	2.02	2.490883301	-0.470883301
1	1	0	1	2	16.58	4	2.592784436	1.407215564
1	0	0	1	2	7.56	1.44	1.757195131	-0.317195131
1	1	0	1	2	10.34	2	2.01472709	-0.01472709
0	1	0	1	4	43.11	5	5.435147161	-0.435147161
0	1	0	1	2	13	2	2.261142561	-0.261142561
1	1	0	1	2	13.51	2	2.308387632	-0.308387632
1	1	0	1	3	18.71	4	2.982448403	1.017551597
0	1	0	1	2	12.74	2.01	2.237056838	-0.227056838
0	1	0	1	2	16.4	2.5	2.576109704	-0.076109704
1	1	0	1	4	20.53	4	3.343394779	0.656605221
0	1	0	1	3	16.47	3.23	2.774940638	0.455059362
1	1	2	0	3	26.59	3.41	3.712431077	-0.302431077
1	1	2	0	4	38.73	3	5.02939537	-2.02939537
1	1	2	0	2	24.27	2.03	3.305166004	-1.275166004
0	1	2	0	2	12.76	2.23	2.238909586	-0.008909586
1	1	2	0	3	30.06	2	4.033882838	-2.033882838
1	1	2	0	4	25.89	5.16	3.839931217	1.320068783
1	0	2	0	4	48.33	9	5.918714364	3.081285636
0	1	2	0	2	13.27	2.5	2.286154658	0.213845342
0	1	2	0	3	28.17	6.5	3.858798161	2.641201839
0	1	2	0	2	12.9	1.1	2.251878821	-1.151878821
1	1	2	0	5	28.15	3	4.241638046	-1.241638046
1	1	2	0	2	11.59	1.5	2.130523834	-0.630523834
1	1	2	0	2	7.74	1.44	1.773869862	-0.333869862
0	1	2	0	4	30.14	3.09	4.233640146	-1.143640146
1	1	1	1	2	12.16	2.2	2.183327149	0.016672851
0	1	1	1	2	13.42	3.48	2.300050267	1.179949733
1	1	1	1	1	8.58	1.92	1.659338958	0.260661042
0	0	1	1	3	15.98	3	2.729548314	0.270451686
1	1	1	1	2	13.42	1.58	2.300050267	-0.720050267
0	1	1	1	2	16.27	2.5	2.564066843	-0.064066843
0	1	1	1	2	10.09	2	1.991567741	0.008432259
1	0	2	0	4	20.45	3	3.335983787	-0.335983787
1	0	2	0	2	13.28	2.72	2.287081032	0.432918968
0	1	2	0	2	22.12	2.88	3.105995605	-0.225995605
1	1	2	0	4	24.01	2	3.665772914	-1.665772914
1	1	2	0	3	15.69	3	2.70268347	0.29731653

1	0	2	0	2	11.61	3.39	2.132376582	1.257623418
1	0	2	0	2	10.77	1.47	2.05456117	-0.58456117
1	1	2	0	2	15.53	3	2.495515171	0.504484829
1	0	2	0	2	10.07	1.25	1.989714993	-0.739714993
1	1	2	0	2	12.6	1	2.224087603	-1.224087603
1	1	2	0	2	32.83	1.17	4.098142107	-2.928142107
0	0	2	0	3	35.83	4.67	4.568400608	0.101599392
1	0	2	0	3	29.03	5.92	3.938466321	1.981533679
0	1	2	0	2	27.18	2	3.574740824	-1.574740824
1	1	2	0	2	22.67	2	3.156946172	-1.156946172
1	0	2	0	2	17.82	1.75	2.707654806	-0.957654806
0	0	0	0	2	18.78	3	2.796586705	0.203413295

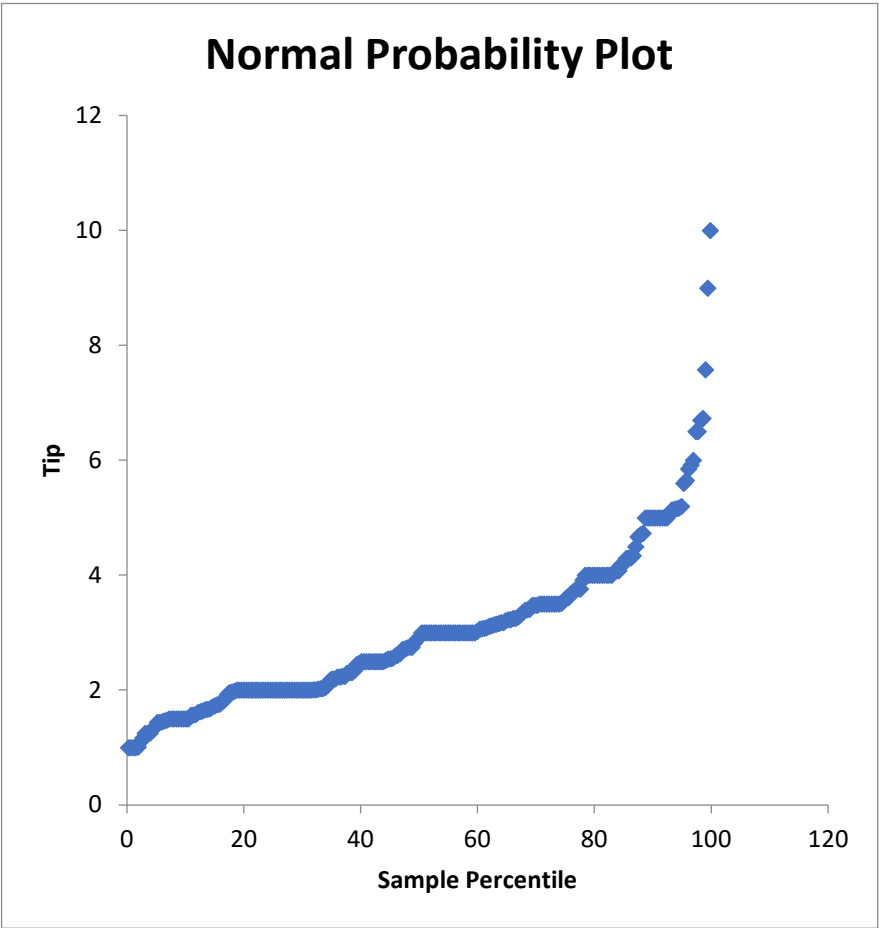
Actual Vs Predicted



Sheet 4: MLR

SUMMARY
OUTPUT

Regression Statistics	
Multiple R	0.683
R Square	0.467
Adjusted R Square	0.462
Standard Error	1.015
Observations	243



ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	2	216.7257	108.363	105.085	1.66E-33
Residual	240	247.4861	1.03119		
Total	242	464.2118			

<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
---------------------	-----------------------	---------------	----------------	------------------	------------------	--------------------	--------------------

Intercept	0.672	0.194392	3.45778	0.00064	0.289232	1.055096	0.28923174	1.05509584
Size	0.192	0.085486	2.25003	0.02535	0.023948	0.360745	0.02394756	0.36074507
Total Bill	0.093	0.009137	10.1385	2.5E-20	0.074638	0.110637	0.07463803	0.11063676

RESIDUAL OUTPUT				PROBABILITY OUTPUT	
<i>Observation</i>	<i>Predicted Tip</i>	<i>Residuals</i>	<i>Standard Residuals</i>	<i>Percentile</i>	<i>Tip</i>
1	2.631	-1.620766	-1.6027	0.205761	1
2	2.207	-0.547073	-0.541	0.617284	1
3	3.196	0.304486	0.30109	1.028807	1
4	3.251	0.05949	0.05883	1.440329	1
5	3.72	-0.109503	-0.1083	1.851852	1.01
6	3.784	0.925651	0.91533	2.263374	1.1
7	1.869	0.130714	0.12926	2.674897	1.17
8	3.932	-0.811642	-0.8026	3.08642	1.25
9	2.45	-0.490123	-0.4847	3.497942	1.25

10	2.426	0.803963	0.795	3.909465	1.25
11	2.008	-0.298242	-0.2949	4.320988	1.32
12	4.708	0.292056	0.2888	4.73251	1.36
13	2.485	-0.915325	-0.9051	5.144033	1.44
14	3.149	-0.148856	-0.1472	5.555556	1.44
15	2.431	0.589331	0.58276	5.967078	1.45
16	3.056	0.864029	0.8544	6.378601	1.47
17	2.206	-0.536147	-0.5302	6.790123	1.48
18	2.758	0.951734	0.94113	7.201646	1.5
19	2.821	0.678741	0.67118	7.613169	1.5
20	3.162	0.187835	0.18574	8.024691	1.5
21	2.717	1.363081	1.34789	8.436214	1.5
22	2.936	-0.186469	-0.1844	8.847737	1.5
23	2.518	-0.287748	-0.2845	9.259259	1.5
24	5.093	2.486685	2.45897	9.670782	1.5
25	2.893	0.28707	0.28387	10.0823	1.5
26	3.091	-0.751421	-0.743	10.49383	1.5
27	2.295	-0.295418	-0.2921	10.90535	1.56
28	2.232	-0.232425	-0.2298	11.31687	1.57

29	3.067	1.232912	1.21917	11.7284	1.58
30	2.877	0.122819	0.12145	12.13992	1.61
31	1.942	-0.491544	-0.4861	12.55144	1.63
32	3.141	-0.641445	-0.6343	12.96296	1.64
33	2.452	0.548024	0.54192	13.37449	1.66
34	3.358	-0.908217	-0.8981	13.78601	1.67
35	2.704	0.566051	0.55974	14.19753	1.68
36	3.478	0.121942	0.12058	14.60905	1.71
37	2.76	-0.760119	-0.7516	15.02058	1.73
38	2.818	0.252446	0.24963	15.4321	1.75
39	2.981	-0.670596	-0.6631	15.84362	1.76
40	4.146	0.854026	0.84451	16.25514	1.8
41	2.735	-0.495107	-0.4896	16.66667	1.83
42	2.674	-0.134305	-0.1328	17.07819	1.92
43	2.348	0.711778	0.70384	17.48971	1.96
44	1.954	-0.633586	-0.6265	17.90123	1.97
45	4.258	1.342274	1.32731	18.31276	1.98
46	2.751	0.248806	0.24603	18.72428	2
47	3.116	1.883814	1.86282	19.1358	2

48	4.443	1.556999	1.53965	19.54733	2
49	3.894	-1.844	-1.8234	19.95885	2
50	2.728	0.271965	0.26893	20.37037	2
51	2.219	0.281471	0.27833	20.78189	2
52	2.01	0.589905	0.58333	21.19342	2
53	4.666	0.533743	0.52779	21.60494	2
54	1.978	-0.417672	-0.413	22.01646	2
55	3.809	0.530639	0.52472	22.42798	2
56	2.862	0.647641	0.64042	22.83951	2
57	4.963	-1.962696	-1.9408	23.25103	2
58	3.503	-2.00341	-1.9811	23.66255	2
59	2.098	-0.338101	-0.3343	24.07407	2
60	5.913	0.816844	0.80774	24.4856	2
61	2.936	0.273531	0.27048	24.89712	2
62	2.336	-0.336179	-0.3324	25.30864	2
63	2.078	-0.097721	-0.0966	25.72016	2
64	3.136	0.624113	0.61716	26.13169	2
65	2.879	-0.238695	-0.236	26.54321	2
66	3.109	0.040638	0.04019	26.95473	2

67	2.581	-0.110742	-0.1095	27.36626	2
68	1.149	-0.148907	-0.1472	27.77778	2
69	2.931	-0.920911	-0.9106	28.1893	2
70	2.447	-0.357344	-0.3534	28.60082	2
71	2.17	-0.200358	-0.1981	29.01235	2
72	2.831	0.169477	0.16759	29.42387	2
73	3.545	-0.405097	-0.4006	29.83539	2
74	3.399	1.60127	1.58342	30.24691	2
75	2.421	-0.221405	-0.2189	30.65844	2
76	2.03	-0.780475	-0.7718	31.06996	2
77	2.717	0.363081	0.35903	31.48148	2
78	3.961	0.038714	0.03828	31.893	2.01
79	3.165	-0.165284	-0.1634	32.30453	2.01
80	2.659	0.051443	0.05087	32.71605	2.02
81	2.858	0.142273	0.14069	33.12757	2.03
82	2.6	0.799805	0.79089	33.53909	2.03
83	1.797	0.032631	0.03227	33.95062	2.05
84	4.084	0.915754	0.90555	34.36214	2.09
85	2.537	-0.507202	-0.5015	34.77366	2.18

86	4.668	0.50189	0.4963	35.18519	2.2
87	2.264	-0.263922	-0.261	35.59671	2.2
88	2.75	1.249732	1.2358	36.00823	2.23
89	3.346	2.504074	2.47616	36.41975	2.23
90	3.017	-0.017064	-0.0169	36.83128	2.24
91	3.741	-0.740562	-0.7323	37.2428	2.24
92	3.14	0.359729	0.35572	37.65432	2.3
93	1.59	-0.589521	-0.583	38.06584	2.31
94	2.569	1.731301	1.712	38.47737	2.31
95	3.164	0.085643	0.08469	38.88889	2.34
96	5.163	-0.432793	-0.428	39.30041	2.45
97	3.584	0.415995	0.41136	39.71193	2.47
98	2.171	-0.671284	-0.6638	40.12346	2.5
99	3.003	-0.003168	-0.0031	40.53498	2.5
100	2.211	-0.711118	-0.7032	40.9465	2.5
101	2.108	0.391709	0.38734	41.35802	2.5
102	2.482	0.51838	0.5126	41.76955	2.5
103	5.353	-2.853039	-2.8212	42.18107	2.5
104	3.134	0.346213	0.34235	42.59259	2.5

105	2.995	1.085169	1.07307	43.00412	2.5
106	2.48	-0.839767	-0.8304	43.41564	2.5
107	2.955	1.105003	1.09269	43.82716	2.5
108	3.392	0.897755	0.88775	44.23868	2.52
109	2.747	1.013437	1.00214	44.65021	2.54
110	2.382	1.617502	1.59947	45.06173	2.55
111	2.354	0.64622	0.63902	45.47325	2.56
112	1.536	-0.536131	-0.5302	45.88477	2.6
113	4.776	-0.775908	-0.7673	46.2963	2.61
114	3.276	-0.725522	-0.7174	46.70782	2.64
115	3.631	0.36909	0.36498	47.11934	2.71
116	2.66	0.83959	0.83023	47.53086	2.72
117	4.214	0.855814	0.84628	47.94239	2.74
118	2.043	-0.543445	-0.5374	48.35391	2.75
119	2.208	-0.408339	-0.4038	48.76543	2.75
120	3.672	-0.752258	-0.7439	49.17695	2.83
121	2.14	0.170212	0.16832	49.58848	2.88
122	2.3	-0.62005	-0.6131	50	2.92
123	2.378	0.122134	0.12077	50.41152	3

124	2.534	-0.534423	-0.5285	50.82305	3
125	2.213	0.307029	0.30361	51.23457	3
126	4.587	-0.386836	-0.3825	51.64609	3
127	1.846	-0.366127	-0.362	52.05761	3
128	2.402	-0.401951	-0.3975	52.46914	3
129	2.111	-0.11107	-0.1098	52.88066	3
130	3.363	-1.183188	-1.17	53.29218	3
131	2.824	-1.324378	-1.3096	53.7037	3
132	2.935	-0.104616	-0.1035	54.11523	3
133	2.092	-0.591616	-0.585	54.52675	3
134	2.193	-0.192591	-0.1904	54.93827	3
135	2.748	0.501585	0.49599	55.34979	3
136	1.845	-0.595201	-0.5886	55.76132	3
137	2.014	-0.013801	-0.0136	56.17284	3
138	2.368	-0.367676	-0.3636	56.58436	3
139	2.539	-0.539055	-0.533	56.99588	3
140	2.276	0.474035	0.46875	57.40741	3
141	2.675	0.824768	0.81558	57.81893	3
142	5.004	1.696296	1.67739	58.23045	3

143	5.45	-0.44963	-0.4446	58.64198	3
144	4.332	0.667917	0.66047	59.0535	3
145	2.579	-0.278889	-0.2758	59.46502	3
146	1.83	-0.330379	-0.3267	59.87654	3.02
147	2.976	-1.615964	-1.598	60.28807	3.06
148	2.156	-0.526462	-0.5206	60.69959	3.07
149	1.963	-0.23285	-0.2303	61.11111	3.08
150	1.753	0.247437	0.24468	61.52263	3.09
151	2.36	0.139735	0.13818	61.93416	3.11
152	2.273	-0.273185	-0.2701	62.34568	3.12
153	2.848	-0.108124	-0.1069	62.7572	3.14
154	3.716	-1.715797	-1.6967	63.16872	3.15
155	3.273	-1.27299	-1.2588	63.58025	3.16
156	4.399	0.740878	0.73262	63.99177	3.18
157	6.289	-1.288585	-1.2742	64.40329	3.18
158	3.757	-0.007484	-0.0074	64.81481	3.21
159	2.297	0.312729	0.30924	65.22634	3.23
160	2.969	-0.96914	-0.9583	65.63786	3.23
161	3.433	0.066747	0.066	66.04938	3.25

162	2.23	0.270354	0.26734	66.46091	3.25
163	2.751	-0.750855	-0.7425	66.87243	3.27
164	2.336	-0.336179	-0.3324	67.28395	3.31
165	2.679	0.321063	0.31748	67.69547	3.35
166	3.521	-0.040672	-0.0402	68.107	3.39
167	2.98	-0.740009	-0.7318	68.51852	3.4
168	4.379	0.120919	0.11957	68.93004	3.41
169	2.038	-0.427886	-0.4231	69.34156	3.48
170	2.042	-0.041592	-0.0411	69.75309	3.48
171	5.956	4.043891	3.99882	70.16461	3.48
172	2.521	0.638546	0.63143	70.57613	3.5
173	1.728	3.421522	3.38339	70.98765	3.5
174	4.007	-0.827357	-0.8181	71.39918	3.5
175	2.615	1.384983	1.36955	71.8107	3.5
176	4.105	-0.994627	-0.9835	72.22222	3.5
177	2.714	-0.714139	-0.7062	72.63374	3.5
178	2.398	-0.398246	-0.3938	73.04527	3.5
179	1.946	2.053825	2.03093	73.45679	3.5
180	4.265	-0.714889	-0.7069	73.86831	3.5

181	4.651	-0.971435	-0.9606	74.27984	3.51
182	3.218	2.431913	2.40481	74.69136	3.55
183	5.45	-1.950309	-1.9286	75.10288	3.6
184	3.588	2.912042	2.87959	75.5144	3.61
185	4.813	-1.813303	-1.7931	75.92593	3.68
186	3.551	1.449437	1.43328	76.33745	3.71
187	3.185	0.314676	0.31117	76.74897	3.75
188	4.456	-2.45563	-2.4283	77.16049	3.76
189	2.931	0.569429	0.56308	77.57202	3.76
190	3.389	0.610873	0.60406	77.98354	3.92
191	2.51	-1.010337	-0.9991	78.39506	4
192	2.892	1.297997	1.28353	78.80658	4
193	3.691	-1.131464	-1.1189	79.21811	4
194	2.491	-0.470883	-0.4656	79.62963	4
195	2.593	1.407216	1.39153	80.04115	4
196	1.757	-0.317195	-0.3137	80.45267	4
197	2.015	-0.014727	-0.0146	80.8642	4
198	5.435	-0.435147	-0.4303	81.27572	4
199	2.261	-0.261143	-0.2582	81.68724	4

200	2.308	-0.308388	-0.305	82.09877	4
201	2.982	1.017552	1.00621	82.51029	4
202	2.237	-0.227057	-0.2245	82.92181	4
203	2.576	-0.07611	-0.0753	83.33333	4.06
204	3.343	0.656605	0.64929	83.74486	4.08
205	2.775	0.455059	0.44999	84.15638	4.08
206	3.712	-0.302431	-0.2991	84.5679	4.19
207	5.029	-2.029395	-2.0068	84.97942	4.2
208	3.305	-1.275166	-1.261	85.39095	4.29
209	2.239	-0.00891	-0.0088	85.80247	4.3
210	4.034	-2.033883	-2.0112	86.21399	4.3
211	3.84	1.320069	1.30536	86.62551	4.34
212	5.919	3.081286	3.04694	87.03704	4.5
213	2.286	0.213845	0.21146	87.44856	4.67
214	3.859	2.641202	2.61176	87.86008	4.71
215	2.252	-1.151879	-1.139	88.2716	4.73
216	4.242	-1.241638	-1.2278	88.68313	5
217	2.131	-0.630524	-0.6235	89.09465	5
218	1.774	-0.33387	-0.3301	89.50617	5

219	4.234	-1.14364	-1.1309	89.9177	5
220	2.183	0.016673	0.01649	90.32922	5
221	2.3	1.17995	1.1668	90.74074	5
222	1.659	0.260661	0.25776	91.15226	5
223	2.73	0.270452	0.26744	91.56379	5
224	2.3	-0.72005	-0.712	91.97531	5
225	2.564	-0.064067	-0.0634	92.38683	5
226	1.992	0.008432	0.00834	92.79835	5.07
227	3.336	-0.335984	-0.3322	93.20988	5.14
228	2.287	0.432919	0.42809	93.6214	5.15
229	3.106	-0.225996	-0.2235	94.03292	5.16
230	3.666	-1.665773	-1.6472	94.44444	5.17
231	2.703	0.297317	0.294	94.85597	5.2
232	2.132	1.257623	1.24361	95.26749	5.6
233	2.055	-0.584561	-0.578	95.67901	5.65
234	2.496	0.504485	0.49886	96.09053	5.85
235	1.99	-0.739715	-0.7315	96.50206	5.92
236	2.224	-1.224088	-1.2104	96.91358	6
237	4.098	-2.928142	-2.8955	97.3251	6.5

238	4.568	0.101599	0.10047	97.73663	6.5
-----	-------	----------	---------	----------	-----

239	3.938	1.981534	1.95945	98.14815	6.7
-----	-------	----------	---------	----------	-----

240	3.575	-1.574741	-1.5572	98.55967	6.73
-----	-------	-----------	---------	----------	------

241	3.157	-1.156946	-1.1441	98.97119	7.58
-----	-------	-----------	---------	----------	------

242	2.708	-0.957655	-0.947	99.38272	9
-----	-------	-----------	--------	----------	---

243	2.797	0.203413	0.20115	99.79424	10
-----	-------	----------	---------	----------	----
