22bce0476assignment22.R

Batch1

2024-08-22

library(ggplot2)

Warning: package 'ggplot2' was built under R version 4.2.3

#1.Load the dataset into the R environment (read.csv
datasets<-read.csv("C:/Users/batch1/Downloads/data(1) (1).csv")
print(datasets)</pre>

	-	normalized.losses				num.of.doors
1	3	}	alfa-romero	gas	std	two
2	3	?	alfa-romero	gas	std	two
3	1	}	alfa-romero	gas	std	two
4	2	164	audi	gas	std	four
5	2	164	audi	gas	std	four
6	2	;	audi	gas	std	two
7	1	158	audi	gas	std	four
8	1	;	audi	gas	std	four
9	1	158	audi	gas	turbo	four
10	0	}	audi	gas	turbo	two
11	2	192	bmw	gas	std	two
12	0	192	bmw	gas	std	four
13	0	188	bmw	gas	std	two
14	0	188	bmw	gas	std	four
15	1	;	bmw	gas	std	four
16	0	;	bmw	gas	std	four
17	0	?	bmw	gas	std	two
18	0	;	bmw	gas	std	four
19	2	121	chevrolet	gas	std	two
20	1	98	chevrolet	gas	std	two
21	0	81	chevrolet	gas	std	four
22	1	118	dodge	gas	std	two
23	1	118	dodge	gas	std	two
24	1	118	dodge	gas	turbo	two
25	1	148	dodge	gas	std	four
26	1	148	dodge	gas	std	four
27	1	148	dodge	gas	std	four
28	1	148	dodge	gas	turbo	?
29	-1	110	dodge	gas	std	four
30	3	145	dodge	gas	turbo	two
31	2	137	honda	gas	std	two
32	2	137	honda	gas	std	two
33	1	101	honda	gas	std	two
34	1	101	honda	gas	std	two
35	1	101	honda	gas	std	two
36	0	110	honda		std	four
37	0	78	honda	gas	std	four
		106	honda	gas		
38	0			gas	std	two
39 40	0	106	honda	gas	std	two
40	0	85	honda	gas	std	four
41	0	85	honda	gas	std	four
42	0	85	honda	gas	std	four
43	1	107	honda	gas	std	two
44	0	;	isuzu	gas	std	four
45	1	?	isuzu	gas	std	two
46	0	,	isuzu	gas	std	four
47	2	}	isuzu	gas	std	two
48	0	145	jaguar	gas	std	four
49	0	;	jaguar	gas	std	four
50	0	?	jaguar	gas	std	two

##	51	1	104	mazda	gas	std	two
##	52	1	104	mazda	gas	std	two
##	53	1	104	mazda	gas	std	two
##	54	1	113	mazda	gas	std	four
##	55	1	113	mazda	gas	std	four
##	56	3	150	mazda	gas	std	two
##	57	3	150	mazda	gas	std	two
##	58	3	150	mazda	gas	std	two
##	59	3	150	mazda	gas	std	two
##	60	1	129	mazda	gas	std	two
##	61	0	115	mazda	gas	std	four
##	62	1	129	mazda	gas	std	two
##	63	0	115	mazda	gas	std	four
##	64	0	?	mazda	diesel	std	?
##	65	0	115	mazda	gas	std	four
##	66	0	118	mazda	gas	std	four
##	67	0	?	mazda	diesel	std	four
##	68	-1	93	mercedes-benz	diesel	turbo	four
##	69	-1	93	mercedes-benz	diesel	turbo	four
##	70	0	93	mercedes-benz	diesel	turbo	two
##	· 71	-1	93	mercedes-benz	diesel	turbo	four
##	72	-1	?	mercedes-benz	gas	std	four
##	: 73	3	142	mercedes-benz	gas	std	two
##	74	0	?	mercedes-benz	gas	std	four
##	: 75	1	?	mercedes-benz	gas	std	two
##	76	1	?	mercury	gas	turbo	two
##	: 77	2	161	mitsubishi	gas	std	two
##	78	2	161	mitsubishi	gas	std	two
##	79	2	161	mitsubishi	gas	std	two
##	80	1	161	mitsubishi	gas	turbo	two
##	81	3	153	mitsubishi	gas	turbo	two
##	82	3	153	mitsubishi	gas	std	two
##	83	3	?	mitsubishi	gas	turbo	two
##	84	3	?	mitsubishi	gas	turbo	two
##	85	3	?	mitsubishi	gas	turbo	two
##	86	1	125	mitsubishi	gas	std	four
##	87	1	125	mitsubishi	gas	std	four
##	88	1	125	mitsubishi	gas	turbo	four
##	89	-1	137	mitsubishi	gas	std	four
##	90	1	128	nissan	gas	std	two
##	91	1	128	nissan	diesel	std	two
##	92	1	128	nissan	gas	std	two
##	93	1	122	nissan	gas	std	four
##	94	1	103	nissan	gas	std	four
##	95	1	128	nissan	gas	std	two
##	96	1	128	nissan	gas	std	two
##	97	1	122	nissan	gas	std	four
##	98	1	103	nissan	gas	std	four
##	99	2	168	nissan	gas	std	two
##	100	0	106	nissan	gas	std	four
##	101	0	106	nissan	gas	std	four
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## 102	0	128	nissan	gas	std	four
## 103	0	108	nissan	gas	std	four
## 104	0	108	nissan	gas	std	four
## 105	3	194	nissan	gas	std	two
## 106	3	194	nissan	gas	turbo	two
## 107	1	231	nissan	gas	std	two
## 108	0	161	peugot	gas	std	four
## 109	0	161	peugot	diesel	turbo	four
## 110	0	?	peugot	gas	std	four
## 111	0	?	peugot	diesel	turbo	four
## 112	0	161	peugot	gas	std	four
## 113	0	161	peugot	diesel	turbo	four
## 114	0	?	peugot	gas	std	four
## 115	0	?	peugot	diesel	turbo	four
## 116	0	161	peugot	gas	std	four
## 117	0	161	peugot	diesel	turbo	four
## 118	0	161	peugot	gas	turbo	four
## 119	1	119	plymouth	gas	std	two
## 120	1	119	plymouth	gas	turbo	two
## 121	1	154	plymouth	gas	std	four
## 122	1	154	plymouth	gas	std	four
## 123	1	154	plymouth	gas	std	four
## 124	-1	74	plymouth	gas	std	four
## 125	3	?	plymouth	gas	turbo	two
## 126	3	186	porsche	gas	std	two
## 127	3	?	porsche	gas	std	two
## 128	3	?	porsche	gas	std	two
## 129	3	?	porsche	gas	std	two
## 130	1	?	porsche	gas	std	two
## 131	0	?	renault	gas	std	four
## 132	2	?	renault	gas	std	two
## 133	3	150	saab	gas	std	two
## 134	2	104	saab	gas	std	four
## 135	3	150	saab	gas	std	two
## 136	2	104	saab	gas	std	four
## 137	3	150	saab	gas	turbo	two
## 138	2	104	saab	gas	turbo	four
## 139	2	83	subaru	gas	std	two
## 140	2	83	subaru	gas	std	two
## 141	2	83	subaru	gas	std	two
## 142	0	102	subaru	gas	std	four
## 143	0	102	subaru	gas	std	four
## 144	0	102	subaru	gas	std	four
## 145	0	102	subaru	gas	std	four
## 146	0	102	subaru	gas	turbo	four
## 147	0	89	subaru	gas	std	four
## 148	0	89	subaru	gas	std	four
## 149	0	85	subaru	gas	std	four
## 150	0	85	subaru	gas	turbo	four
## 151	1	87	toyota	gas	std	two
## 152	1	87	toyota	gas	std	two
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## 153	1	74	toyota	gas	std	four
## 154	0	77	toyota	gas	std	four
## 155	0	81	toyota	gas	std	four
## 156	0	91	toyota	gas	std	four
## 157	0	91	toyota	gas	std	four
## 158	0	91	toyota	gas	std	four
## 159	0	91	toyota	diesel	std	four
## 160	0	91	toyota	diesel	std	four
## 161	0	91	toyota	gas	std	four
## 162	0	91	toyota	gas	std	four
## 163	0	91	toyota	gas	std	four
## 164	1	168	toyota	gas	std	two
## 165	1	168	toyota	gas	std	two
## 166	1	168	toyota	gas	std	two
## 167	1	168	toyota	gas	std	two
## 168	2	134	toyota	gas	std	two
## 169	2	134	toyota	gas	std	two
## 170	2	134	toyota	gas	std	two
## 171	2	134	toyota	gas	std	two
## 172	2	134	toyota	gas	std	two
## 173	2	134	toyota	gas	std	two
## 174	-1	65	toyota	gas	std	four
## 175	-1	65	toyota	diesel	turbo	four
## 176	-1	65	toyota	gas	std	four
## 177	-1	65	toyota	gas	std	four
## 178	-1	65	toyota	gas	std	four
## 179	3	197	toyota	gas	std	two
## 180	3	197	toyota	gas	std	two
## 181	-1	90	toyota	gas	std	four
## 182	-1	?	toyota	gas	std	four
## 183	2	122	volkswagen	diesel	std	two
## 184	2	122	volkswagen	gas	std	two
## 185	2	94	volkswagen	diesel	std	four
## 186	2	94	volkswagen	gas	std	four
## 187	2	94	volkswagen	gas	std	four
## 188	2	94	volkswagen	diesel	turbo	four
## 189	2	94	volkswagen	gas	std	four
## 190	3	?	volkswagen	gas	std	two
## 191	3	256	volkswagen	gas	std	two
## 192	0	?	volkswagen	gas	std	four
## 193	0	?	volkswagen	diesel	turbo	four
## 194	0	?	volkswagen	gas	std	four
## 195	-2	103	volvo	gas	std	four
## 196	-1	74	volvo	gas	std	four
## 197	-2	103	volvo	gas	std	four
## 198	-1	74	volvo	gas	std	four
## 199	-2	103	volvo	gas	turbo	four
## 200	-1	74	volvo	gas	turbo	four
## 201	-1	95	volvo	gas	std	four
## 202	-1	95	volvo	gas	turbo	four
## 203	-1	95	volvo	gas	std	four

##	204	-1		95	volvo	diesel	tı	ırbo	four
##	205	-1		95	volvo	gas	tı	ırbo	four
##		body.style	drive.wheels	engine.	location	wheel.base	length	width	height
##	1	convertible	rwd		front	88.6	168.8	64.1	48.8
##	2	convertible	rwd		front	88.6	168.8	64.1	48.8
##	3	hatchback	rwd		front	94.5	171.2	65.5	52.4
##	4	sedan	fwd		front	99.8	176.6	66.2	54.3
##	5	sedan	4wd		front	99.4	176.6	66.4	54.3
##	6	sedan	fwd		front	99.8	177.3	66.3	53.1
##	7	sedan	fwd		front	105.8	192.7	71.4	55.7
##	8	wagon	fwd		front	105.8	192.7	71.4	55.7
##	9	sedan	fwd		front	105.8	192.7	71.4	55.9
##	10	hatchback	4wd		front	99.5	178.2	67.9	52.0
##	11	sedan	rwd		front	101.2	176.8	64.8	54.3
##	12	sedan	rwd		front	101.2	176.8	64.8	54.3
##	13	sedan	rwd		front	101.2	176.8	64.8	54.3
##	14	sedan	rwd		front	101.2	176.8	64.8	54.3
##	15	sedan	rwd		front	103.5	189.0	66.9	55.7
##	16	sedan	rwd		front	103.5	189.0	66.9	55.7
##	17	sedan	rwd		front	103.5	193.8	67.9	53.7
##	18	sedan	rwd		front	110.0	197.0	70.9	56.3
##	19	hatchback	fwd		front	88.4	141.1	60.3	53.2
##		hatchback	fwd		front	94.5	155.9	63.6	52.0
##		sedan	fwd		front	94.5	158.8	63.6	52.0
##		hatchback	fwd		front	93.7	157.3	63.8	50.8
##		hatchback	fwd		front	93.7	157.3	63.8	50.8
##		hatchback	fwd		front	93.7	157.3	63.8	50.8
##		hatchback	fwd		front	93.7	157.3	63.8	50.6
##		sedan	fwd		front	93.7	157.3	63.8	50.6
##		sedan	fwd		front	93.7	157.3	63.8	50.6
	28	sedan	fwd		front	93.7	157.3	63.8	50.6
##		wagon	fwd		front		174.6		59.8
	30	hatchback	fwd		front		173.2		
	31	hatchback	fwd		front		144.6		
	32	hatchback	fwd		front		144.6	63.9	
##		hatchback	fwd		front		150.0		52.6
	34	hatchback	fwd		front	93.7	150.0		52.6
	35	hatchback	fwd		front		150.0		52.6
##	36 27	sedan	fwd fwd		front front		163.4		54.5
	38	wagon hatchback	fwd		front	96.5 96.5	157.1 167.5		58.3
	39	hatchback	fwd		front	96.5	167.5	65.2 65.2	53.3 53.3
	40	sedan	fwd		front	96.5	175.4		54.1
##		sedan	fwd		front	96.5	175.4		54.1
	42	sedan	fwd		front		175.4		
##		sedan	fwd		front	96.5	169.1		51.0
##		sedan	rwd		front	94.3	170.7	61.8	53.5
##		sedan	fwd		front	94.5	155.9		52.0
	46	sedan	fwd		front	94.5	155.9		52.0
	47	hatchback	rwd		front	96.0	172.6		51.4
##		sedan	rwd		front	113.0			
	. •	Seauli			5			22.0	

##	49	sedan	rwd	front	113.0	199.6	69.6	52.8
##	50	sedan	rwd	front	102.0	191.7	70.6	47.8
##	51	hatchback	fwd	front	93.1	159.1	64.2	54.1
##	52	hatchback	fwd	front	93.1	159.1	64.2	54.1
##	53	hatchback	fwd	front	93.1	159.1	64.2	54.1
##	54	sedan	fwd	front	93.1	166.8	64.2	54.1
##	55	sedan	fwd	front	93.1	166.8	64.2	54.1
##	56	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	57	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	58	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	59	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	60	hatchback	fwd	front	98.8	177.8	66.5	53.7
##	61	sedan	fwd	front	98.8	177.8	66.5	55.5
##	62	hatchback	fwd	front	98.8	177.8	66.5	53.7
##	63	sedan	fwd	front	98.8	177.8	66.5	55.5
##	64	sedan	fwd	front	98.8	177.8	66.5	55.5
##	65	hatchback	fwd	front	98.8	177.8	66.5	55.5
##	66	sedan	rwd	front	104.9	175.0	66.1	54.4
##	67	sedan	rwd	front	104.9	175.0	66.1	54.4
##	68	sedan	rwd	front	110.0	190.9	70.3	56.5
##	69	wagon	rwd	front	110.0	190.9	70.3	58.7
##	70	hardtop	rwd	front	106.7	187.5	70.3	54.9
##	71	sedan	rwd	front	115.6	202.6	71.7	56.3
##	72	sedan	rwd	front	115.6	202.6	71.7	56.5
##	73	convertible	rwd	front	96.6	180.3	70.5	50.8
##	74	sedan	rwd	front	120.9	208.1	71.7	56.7
##	75	hardtop	rwd	front	112.0	199.2	72.0	55.4
##	76	hatchback	rwd	front	102.7	178.4	68.0	54.8
##	77	hatchback	fwd	front	93.7	157.3	64.4	50.8
##	78	hatchback	fwd	front	93.7	157.3	64.4	50.8
##	79	hatchback	fwd	front	93.7	157.3	64.4	50.8
##	80	hatchback	fwd	front	93.0	157.3	63.8	50.8
##	81	hatchback	fwd	front	96.3	173.0	65.4	49.4
##	82	hatchback	fwd	front	96.3	173.0	65.4	49.4
##	83	hatchback	fwd	front	95.9	173.2	66.3	50.2
##	84	hatchback	fwd	front	95.9	173.2	66.3	50.2
##	85	hatchback	fwd	front	95.9	173.2	66.3	50.2
##	86	sedan	fwd	front	96.3	172.4	65.4	51.6
##		sedan	fwd	front	96.3	172.4	65.4	51.6
##	88	sedan	fwd	front	96.3	172.4	65.4	51.6
##	89	sedan	fwd	front	96.3	172.4	65.4	51.6
##	90	sedan	fwd	front	94.5	165.3	63.8	54.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		wagon	fwd	front	94.5	170.2	63.8	53.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		hatchback	fwd	front	94.5	165.6	63.8	53.3
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		wagon	fwd	front	94.5	170.2	63.8	53.5
##	99	hardtop	fwd	front	95.1	162.4	63.8	53.3

##	100	hatchback	fwd	front	97.2	173.4	65.2	54.7
##	101	sedan	fwd	front	97.2	173.4	65.2	54.7
##	102	sedan	fwd	front	100.4	181.7	66.5	55.1
##	103	wagon	fwd	front	100.4	184.6	66.5	56.1
##	104	sedan	fwd	front	100.4	184.6	66.5	55.1
##	105	hatchback	rwd	front	91.3	170.7	67.9	49.7
##	106	hatchback	rwd	front	91.3	170.7	67.9	49.7
##	107	hatchback	rwd	front	99.2	178.5	67.9	49.7
##	108	sedan	rwd	front	107.9	186.7	68.4	56.7
##	109	sedan	rwd	front	107.9	186.7	68.4	56.7
##	110	wagon	rwd	front	114.2	198.9	68.4	58.7
##	111	wagon	rwd	front	114.2	198.9	68.4	58.7
##	112	sedan	rwd	front	107.9	186.7	68.4	56.7
##	113	sedan	rwd	front	107.9	186.7	68.4	56.7
##	114	wagon	rwd	front	114.2	198.9	68.4	56.7
##	115	wagon	rwd	front	114.2	198.9	68.4	58.7
##	116	sedan	rwd	front	107.9	186.7	68.4	56.7
##	117	sedan	rwd	front	107.9	186.7	68.4	56.7
##	118	sedan	rwd	front	108.0	186.7	68.3	56.0
##	119	hatchback	fwd	front	93.7	157.3	63.8	50.8
##	120	hatchback	fwd	front	93.7	157.3	63.8	50.8
##	121	hatchback	fwd	front	93.7	157.3	63.8	50.6
##	122	sedan	fwd	front	93.7	167.3	63.8	50.8
##	123	sedan	fwd	front	93.7	167.3	63.8	50.8
##	124	wagon	fwd	front	103.3	174.6	64.6	59.8
##	125	hatchback	rwd	front	95.9	173.2	66.3	50.2
##	126	hatchback	rwd	front	94.5	168.9	68.3	50.2
##	127	hardtop	rwd	rear	89.5	168.9	65.0	51.6
##	128	hardtop	rwd	rear	89.5	168.9	65.0	51.6
##	129	convertible	rwd	rear	89.5	168.9	65.0	51.6
##	130	hatchback	rwd	front	98.4	175.7	72.3	50.5
##	131	wagon	fwd	front	96.1	181.5	66.5	55.2
##	132	hatchback	fwd	front	96.1	176.8	66.6	50.5
##	133	hatchback	fwd	front	99.1	186.6	66.5	56.1
##	134	sedan	fwd	front	99.1	186.6	66.5	56.1
##	135	hatchback	fwd	front	99.1	186.6	66.5	56.1
##	136	sedan	fwd	front	99.1	186.6	66.5	56.1
##	137	hatchback	fwd	front	99.1	186.6	66.5	56.1
##	138	sedan	fwd	front	99.1	186.6	66.5	56.1
##	139	hatchback	fwd	front	93.7	156.9	63.4	53.7
##	140	hatchback	fwd	front	93.7	157.9	63.6	53.7
##	141	hatchback	4wd	front	93.3	157.3	63.8	55.7
##	142	sedan	fwd	front	97.2	172.0	65.4	52.5
##	143	sedan	fwd	front	97.2	172.0	65.4	52.5
##	144	sedan	fwd	front	97.2	172.0	65.4	52.5
##	145	sedan	4wd	front	97.0	172.0	65.4	54.3
##	146	sedan	4wd	front	97.0	172.0	65.4	54.3
##	147	wagon	fwd	front	97.0	173.5	65.4	53.0
##	148	wagon	fwd	front	97.0	173.5	65.4	53.0
##	149	wagon	4wd	front	96.9	173.6	65.4	54.9
##	150	wagon	4wd	front	96.9	173.6	65.4	54.9

##	151	hatchback	fwd	front	95.7	158.7	63.6	54.5
##	152	hatchback	fwd	front	95.7	158.7	63.6	54.5
##	153	hatchback	fwd	front	95.7	158.7	63.6	54.5
##	154	wagon	fwd	front	95.7	169.7	63.6	59.1
##	155	wagon	4wd	front	95.7	169.7	63.6	59.1
##	156	wagon	4wd	front	95.7	169.7	63.6	59.1
##	157	sedan	fwd	front	95.7	166.3	64.4	53.0
##	158	hatchback	fwd	front	95.7	166.3	64.4	52.8
##	159	sedan	fwd	front	95.7	166.3	64.4	53.0
##	160	hatchback	fwd	front	95.7	166.3	64.4	52.8
##	161	sedan	fwd	front	95.7	166.3	64.4	53.0
##	162	hatchback	fwd	front	95.7	166.3	64.4	52.8
##	163	sedan	fwd	front	95.7	166.3	64.4	52.8
##	164	sedan	rwd	front	94.5	168.7	64.0	52.6
##	165	hatchback	rwd	front	94.5	168.7	64.0	52.6
##	166	sedan	rwd	front	94.5	168.7	64.0	52.6
##	167	hatchback	rwd	front	94.5	168.7	64.0	52.6
##	168	hardtop	rwd	front	98.4	176.2	65.6	52.0
##	169	hardtop	rwd	front	98.4	176.2	65.6	52.0
##	170	hatchback	rwd	front	98.4	176.2	65.6	52.0
##	171	hardtop	rwd	front	98.4	176.2	65.6	52.0
##	172	hatchback	rwd	front	98.4	176.2	65.6	52.0
##	173	convertible	rwd	front	98.4	176.2	65.6	53.0
##	174	sedan	fwd	front	102.4	175.6	66.5	54.9
##	175	sedan	fwd	front	102.4	175.6	66.5	54.9
##	176	hatchback	fwd	front	102.4	175.6	66.5	53.9
##	177	sedan	fwd	front	102.4	175.6	66.5	54.9
##	178	hatchback	fwd	front	102.4	175.6	66.5	53.9
##	179	hatchback	rwd	front	102.9	183.5	67.7	52.0
##	180	hatchback	rwd	front	102.9	183.5	67.7	52.0
##	181	sedan	rwd	front	104.5	187.8	66.5	54.1
##	182	wagon	rwd	front	104.5	187.8	66.5	54.1
##	183	sedan	fwd	front	97.3	171.7	65.5	55.7
##	184	sedan	fwd	front	97.3	171.7	65.5	55.7
##	185	sedan	fwd	front	97.3	171.7	65.5	55.7
##	186	sedan	fwd	front	97.3	171.7	65.5	55.7
##	187	sedan	fwd	front	97.3	171.7	65.5	55.7
##	188	sedan	fwd	front	97.3	171.7	65.5	55.7
##	189	sedan	fwd	front	97.3	171.7	65.5	55.7
##	190	convertible	fwd	front	94.5	159.3	64.2	55.6
##	191	hatchback	fwd	front	94.5	165.7	64.0	51.4
##	192	sedan	fwd	front	100.4	180.2	66.9	55.1
##	193	sedan	fwd	front	100.4	180.2	66.9	55.1
##	194	wagon	fwd	front	100.4	183.1	66.9	55.1
##	195	sedan	rwd	front	104.3	188.8	67.2	56.2
	196	wagon	rwd	front	104.3	188.8	67.2	57.5
##	197	sedan	rwd	front	104.3	188.8	67.2	56.2
	198	wagon	rwd	front	104.3	188.8	67.2	57.5
	199	sedan	rwd	front	104.3	188.8	67.2	56.2
	200	wagon	rwd	front	104.3	188.8	67.2	57.5
##	201	sedan	rwd	front	109.1	188.8	68.9	55.5

				100.1	100 0 10 0	
## 202		rwo		109.1	188.8 68.8	55.5
## 203		rwo		109.1	188.8 68.9	55.5
## 204		rwo		109.1	188.8 68.9	55.5
## 205		rwo		109.1	188.8 68.9	55.5
##	curb.weight	engine.type	num.of.cylinders	engine.size	fuel.system	bore
## 1	2548	dohc	four	130	mpfi	3.47
## 2	2548	dohc	four	130	mpfi	3.47
## 3	2823	ohcv	six	152	mpfi	2.68
## 4	2337	ohc	four	109	mpfi	3.19
## 5	2824	ohc	five	136	mpfi	3.19
## 6	2507	ohc	five	136	mpfi	3.19
## 7	2844	ohc	five	136	mpfi	3.19
## 8	2954	ohc	five	136	mpfi	3.19
## 9	3086	ohc	five	131	mpfi	3.13
## 10	3053	ohc	five	131	mpfi	3.13
## 11	2395	ohc	four	108	mpfi	3.5
## 12	2395	ohc	four	108	mpfi	
## 13	2710	ohc	six	164	•	3.31
## 14	2765	ohc	six	164	•	3.31
## 15	3055	ohc	six	164	•	3.31
## 16	3230	ohc	six	209	•	3.62
## 17	3380	ohc	six	209	•	3.62
## 18	3505	ohc	six	209	•	3.62
## 19	1488	1	three	61	•	2.91
## 20	1874	ohc	four	90		3.03
## 21	1909	ohc	four	90		3.03
## 22	1876	ohc	four	90		2.97
## 23	1876	ohc	four	90		2.97
## 24	2128	ohc	four	98		3.03
## 25	1967	ohc	four	90	•	2.97
## 26	1989	ohc	four	90		2.97
## 27	1989	ohc	four	90		2.97
## 28	2191	ohc	four	98	mpfi	
## 29	2535	ohc	four	122		3.34
## 30	2811	ohc	four	156		3.6
## 30	1713	ohc	four	92		2.91
## 32	1819	ohc	four	92		2.91
## 33	1837	ohc	four	79	1bbl	
## 34	1940	ohc	four	92		2.91
## 35	1956	ohc	four	92		2.91
## 36	2010	ohc	four	92	1bb1	
## 37	2010	ohc	four	92		2.92
## 38	2024	ohc	four	110		3.15
## 39	2289	ohc	four	110		3.15
## 40	2304	ohc	four	110		3.15
## 40	2372	ohc	four	110		3.15
## 41	2465	ohc	four	110	mpfi	
## 42	2463		four		•	
## 44		ohc		110 111	2bb1	
## 44	2337	ohc	four	90		3.31
## 45	1874 1909	ohc ohc	four four	90	2bb1	3.03
π π 40	1909	Offic	i oui ^r	30	2001	رن.ر

##	47	2734	ohc	four	119	spfi	3.43
##	48	4066	dohc	six	258	mpfi	3.63
##	49	4066	dohc	six	258	mpfi	3.63
##	50	3950	ohcv	twelve	326	mpfi	3.54
##	51	1890	ohc	four	91	2bbl	3.03
##	52	1900	ohc	four	91	2bbl	3.03
##	53	1905	ohc	four	91	2bbl	3.03
##	54	1945	ohc	four	91	2bbl	3.03
##	55	1950	ohc	four	91	2bbl	3.08
##	56	2380	rotor	two	70	4bbl	?
##	57	2380	rotor	two	70	4bbl	;
##	58	2385	rotor	two	70	4bbl	?
##	59	2500	rotor	two	80	mpfi	;
##	60	2385	ohc	four	122	2bbl	3.39
##	61	2410	ohc	four	122	2bbl	3.39
##	62	2385	ohc	four	122	2bbl	3.39
##	63	2410	ohc	four	122	2bbl	3.39
##	64	2443	ohc	four	122	idi	3.39
##	65	2425	ohc	four	122	2bbl	3.39
##	66	2670	ohc	four	140	mpfi	3.76
##	67	2700	ohc	four	134	idi	3.43
##	68	3515	ohc	five	183	idi	3.58
##	69	3750	ohc	five	183	idi	3.58
##	70	3495	ohc	five	183	idi	3.58
##	71	3770	ohc	five	183	idi	3.58
##	72	3740	ohcv	eight	234	mpfi	3.46
##	73	3685	ohcv	eight	234	mpfi	3.46
##	74	3900	ohcv	eight	308	mpfi	3.8
##	75	3715	ohcv	eight	304	mpfi	3.8
##	76	2910	ohc	four	140	mpfi	3.78
##	77	1918	ohc	four	92	2bbl	2.97
##	78	1944	ohc	four	92	2bbl	2.97
##	79	2004	ohc	four	92	2bbl	2.97
##	80	2145	ohc	four	98	spdi	3.03
##	81	2370	ohc	four	110	spdi	3.17
##	82	2328	ohc	four	122	2bbl	3.35
##	83	2833	ohc	four	156	spdi	3.58
##	84	2921	ohc	four	156	spdi	3.59
##	85	2926	ohc	four	156	spdi	3.59
##	86	2365	ohc	four	122	2bbl	3.35
##	87	2405	ohc	four	122	2bbl	3.35
##	88	2403	ohc	four	110	spdi	3.17
##	89	2403	ohc	four	110	spdi	3.17
##	90	1889	ohc	four	97	2bbl	3.15
##	91	2017	ohc	four	103	idi	2.99
##	92	1918	ohc	four	97	2bbl	3.15
##	93	1938	ohc	four	97	2bbl	3.15
##	94	2024	ohc	four	97	2bbl	3.15
##	95	1951	ohc	four	97	2bbl	3.15
##	96	2028	ohc	four	97	2bbl	3.15
##	97	1971	ohc	four	97	2bbl	3.15

## 98	2037	ohc	four	97	2bbl 3.15
## 99	2008	ohc	four	97	2bbl 3.15
## 100	2324	ohc	four	120	2bbl 3.33
## 101	2302	ohc	four	120	2bbl 3.33
## 102	3095	ohcv	six	181	mpfi 3.43
## 103	3296	ohcv	six	181	mpfi 3.43
## 104	3060	ohcv	six	181	mpfi 3.43
## 105	3071	ohcv	six	181	mpfi 3.43
## 106	3139	ohcv	six	181	mpfi 3.43
## 107	3139	ohcv	six	181	mpfi 3.43
## 108	3020	1	four	120	mpfi 3.46
## 109	3197	1	four	152	idi 3.7
## 110	3230	1	four	120	mpfi 3.46
## 111	3430	1	four	152	idi 3.7
## 112	3075	1	four	120	mpfi 3.46
## 113	3252	1	four	152	idi 3.7
## 114	3285	1	four	120	mpfi 3.46
## 115	3485	1	four	152	idi 3.7
## 116	3075	1	four	120	mpfi 3.46
## 117	3252	1	four	152	idi 3.7
## 118	3130	1	four	134	mpfi 3.61
## 119	1918	ohc	four	90	2bbl 2.97
## 120	2128	ohc	four	98	spdi 3.03
## 121	1967	ohc	four	90	2bbl 2.97
## 122	1989	ohc	four	90	2bbl 2.97
## 123	2191	ohc	four	98	2bbl 2.97
## 124	2535	ohc	four	122	2bbl 3.35
## 125	2818	ohc	four	156	spdi 3.59
## 126	2778	ohc	four	151	mpfi 3.94
## 127	2756	ohcf	six	194	mpfi 3.74
## 128	2756	ohcf	six	194	mpfi 3.74
## 129	2800	ohcf	six	194	mpfi 3.74
## 130	3366	dohcv	eight	203	mpfi 3.94
## 131	2579	ohc	four	132	mpfi 3.46
## 132	2460	ohc	four	132	mpfi 3.46
## 133	2658	ohc	four	121	mpfi 3.54
## 134	2695	ohc	four	121	mpfi 3.54
## 135	2707	ohc	four	121	mpfi 2.54
## 136	2758	ohc	four	121	mpfi 3.54
## 137	2808	dohc	four	121	mpfi 3.54
## 138	2847	dohc	four	121	mpfi 3.54
## 139	2050	ohcf	four	97	2bbl 3.62
## 140	2120	ohcf	four	108	2bbl 3.62
## 141	2240	ohcf	four	108	2bbl 3.62
## 142	2145	ohcf	four	108	2bbl 3.62
## 143	2190	ohcf	four	108	2bbl 3.62
## 144	2340	ohcf	four	108	mpfi 3.62
## 145	2385	ohcf	four	108	2bbl 3.62
## 146	2510	ohcf	four	108	mpfi 3.62
## 147	2290	ohcf	four	108	2bbl 3.62
## 148	2455	ohcf	four	108	mpfi 3.62

## 149	2420	ohcf	four	108	2bbl 3.62
## 150	2650	ohcf	four	108	mpfi 3.62
## 151	1985	ohc	four	92	2bbl 3.05
## 152	2040	ohc	four	92	2bbl 3.05
## 153	2015	ohc	four	92	2bbl 3.05
## 154	2280	ohc	four	92	2bbl 3.05
## 155	2290	ohc	four	92	2bbl 3.05
## 156	3110	ohc	four	92	2bbl 3.05
## 157	2081	ohc	four	98	2bbl 3.19
## 158	2109	ohc	four	98	2bbl 3.19
## 159	2275	ohc	four	110	idi 3.27
## 160	2275	ohc	four	110	idi 3.27
## 161	2094	ohc	four	98	2bbl 3.19
## 162	2122	ohc	four	98	2bbl 3.19
## 163	2140	ohc	four	98	2bbl 3.19
## 164	2169	ohc	four	98	2bbl 3.19
## 165	2204	ohc	four	98	2bbl 3.19
## 166	2265	dohc	four	98	mpfi 3.24
## 167	2300	dohc	four	98	mpfi 3.24
## 168	2540	ohc	four	146	mpfi 3.62
## 169	2536	ohc	four	146	mpfi 3.62
## 170	2551	ohc	four	146	mpfi 3.62
## 171	2679	ohc	four	146	mpfi 3.62
## 172	2714	ohc	four	146	mpfi 3.62
## 173	2975	ohc	four	146	mpfi 3.62
## 174	2326	ohc	four	122	mpfi 3.31
## 175	2480	ohc	four	110	idi 3.27
## 176	2414	ohc	four	122	mpfi 3.31
## 177	2414	ohc	four	122	mpfi 3.31
## 178	2458	ohc	four	122	mpfi 3.31
## 179	2976	dohc	six	171	mpfi 3.27
## 180	3016	dohc	six	171	mpfi 3.27
## 181	3131	dohc	six	171	mpfi 3.27
## 182	3151	dohc	six	161	mpfi 3.27
## 183	2261	ohc	four	97	idi 3.01
## 184	2209	ohc	four	109	mpfi 3.19
## 185	2264	ohc	four	97	idi 3.01
## 186	2212	ohc	four	109	mpfi 3.19
## 187	2275	ohc	four	109	mpfi 3.19
## 188	2319	ohc	four	97	idi 3.01
## 189	2300	ohc	four	109	mpfi 3.19
## 190	2254	ohc	four	109	mpfi 3.19
## 191	2221	ohc	four	109	mpfi 3.19
## 192	2661	ohc	five	136	mpfi 3.19
## 193	2579	ohc	four	97	idi 3.01
## 194	2563	ohc	four	109	mpfi 3.19
## 195	2912	ohc	four	141	mpfi 3.78
## 196	3034	ohc	four	141	mpfi 3.78
## 197	2935	ohc	four	141	mpfi 3.78
## 198	3042	ohc	four	141	mpfi 3.78
## 199	3045	ohc	four	130	mpfi 3.62

## 20	0	3157 ohc		four	130	mpfi 3.62
## 20		2952 ohc		four	141	mpfi 3.78
## 20		3049 ohc		four	141	mpfi 3.78
## 20		3012 ohcv		six	173	mpfi 3.58
## 20		3217 ohc		six	145	idi 3.01
## 20		3062 ohc		four	141	mpfi 3.78
##		compression.ratio	horsepower			•
## 1	2.68	9.00	111	5000	21	27 13495
## 2	2.68	9.00	111	5000	21	27 16500
## 3	3.47	9.00	154	5000	19	26 16500
## 4	3.4	10.00	102	5500	24	30 13950
## 5	3.4	8.00	115	5500	18	22 17450
## 6	3.4	8.50	110	5500	19	25 15250
## 7	3.4	8.50	110	5500	19	25 17710
## 8	3.4	8.50	110	5500	19	25 18920
## 9	3.4	8.30	140	5500	17	20 23875
## 10	3.4	7.00	160	5500	16	22 ?
## 11	2.8	8.80	101	5800	23	29 16430
## 12	2.8	8.80	101	5800	23	29 16925
## 13	3.19	9.00	121	4250	21	28 20970
## 14	3.19	9.00	121	4250	21	28 21105
## 15	3.19	9.00	121	4250	20	25 24565
## 16	3.39	8.00	182	5400	16	22 30760
## 17	3.39	8.00	182	5400	16	22 41315
## 18	3.39	8.00	182	5400	15	20 36880
## 19	3.03	9.50	48	5100	47	53 5151
## 20	3.11	9.60	70	5400	38	43 6295
## 21	3.11	9.60	70	5400	38	43 6575
## 22		9.41	68	5500	37	41 5572
## 23		9.40	68	5500	31	38 6377
## 24		7.60	102	5500	24	30 7957
## 25		9.40	68	5500	31	38 6229
## 26		9.40	68	5500	31	38 6692
## 27		9.40	68	5500	31	38 7609
## 28		7.60	102	5500	24	30 8558
## 29		8.50	88	5000	24	30 8921
## 30		7.00	145	5000	19	24 12964
## 31		9.60	58	4800	49	54 6479
## 32		9.20	76	6000	31	38 6855
## 33		10.10	60	5500	38	42 5399
## 34		9.20	76	6000	30	34 6529
## 35		9.20	76 76	6000	30	34 7129
## 36		9.20	76 76	6000	30	34 7295
## 37		9.20	76 86	6000	30 27	34 7295
## 38		9.00 9.00	86 86	5800 5800	27 27	33 7895
## 39 ## 40			86 86	5800 5800	27 27	33 9095 33 8845
## 40		9.00 9.00	86	5800 5800	27 27	33 8845 33 10295
## 41		9.00	101	5800	27	28 12945
## 42		9.00	100	5500	24 25	31 10345
## 44		9.10 8.50	78	4800	23	29 6785
ππ 44	3.43	0.30	70	4000	24	29 0/03

##	45	3.11	9.6	50	70	540	oo 38	3 43	?
##	46	3.11	9.6	50	70	540	ao 38	3 43	?
##	47	3.23	9.2	20	90	500	00 2 ⁴	29	11048
##	48	4.17	8.3	10	176	47	50 15	19	32250
##	49	4.17	8.3	10	176	47	50 15	19	35550
##	50	2.76	11.5	50	262	500	00 1 3	3 17	36000
##	51	3.15	9.6	90	68	500	aa 36	31	5195
##	52	3.15	9.6	90	68	500	aa 31	. 38	6095
##	53	3.15	9.6	90	68	500	aa 31	. 38	6795
##	54	3.15	9.6	90	68	500	aa 31	. 38	6695
##	55	3.15	9.6	90	68	500	aa 31	. 38	7395
##	56	?	9.4	10	101	60	00 17	23	10945
##	57	?	9.4	10	101	60	00 17	23	11845
##	58	?	9.4	10	101	60	00 17	23	13645
##	59	?	9.4	10	135	60	00 16	5 23	15645
##	60	3.39	8.6	50	84	480	00 26	32	8845
##	61	3.39	8.6	50	84	480	00 26	32	8495
##	62	3.39	8.6	50	84	480	aa 26	32	10595
##	63	3.39	8.6	50	84	480	00 26	32	10245
##	64	3.39	22.7	70	64	46	50 36	5 42	10795
##	65	3.39	8.6	50	84	480	00 26	32	11245
##	66	3.16	8.6	90	120	500	00 19	27	18280
##	67	3.64	22.6	90	72	420	oo 31	. 39	18344
##	68	3.64	21.5	50	123	43	50 22	2 25	25552
##	69	3.64	21.5	50	123	43	50 22	2 25	28248
##	70	3.64	21.5	50	123	43	50 22	2 25	28176
##	71	3.64	21.5	50	123	43	50 22	2 25	31600
##	72	3.1	8.3	30	155	47	50 16	18	34184
##	73	3.1	8.3	30	155	47	50 16	18	35056
##	74	3.35	8.6	90	184	450	00 1 ⁴	16	40960
##	75	3.35	8.6	90	184	450	00 1 ⁴	16	45400
##	76	3.12	8.6	90	175	500	00 19	24	16503
##	77	3.23	9.4	10	68	550	aa 37	41	5389
##	78	3.23	9.4	10	68	550	00 31	. 38	6189
##	79	3.23	9.4	10	68	550	oo 31	. 38	6669
##	80	3.39	7.6	50	102	550	00 2 ⁴	30	7689
##	81	3.46	7.5	50	116	550	oo 23	30	9959
##	82	3.46	8.5	50	88	500	oo 25	32	8499
##	83	3.86	7.6	90	145	500	00 19	24	12629
##	84	3.86	7.6	90	145	500	00 19	24	14869
##	85	3.86	7.6	90	145	500	00 19	24	14489
##	86	3.46	8.5	50	88	500	oo 25	32	6989
##	87	3.46	8.5	50	88	500	oo 25	32	8189
##	88	3.46	7.5	50	116	550	oo 23	30	9279
##	89	3.46	7.5	50	116	550	oo 23	30	9279
##	90	3.29	9.4	10	69	520	oo 31	. 37	5499
##	91	3.47	21.9	90	55	480	a 45	50	7099
##	92	3.29	9.4	10	69	520	a 31	. 37	6649
##	93	3.29	9.4	10	69	520	a 31	. 37	6849
##	94	3.29	9.4	10	69	520	oo 31	. 37	7349
##	95	3.29	9.4	10	69	520	a 31	. 37	7299

## 96	3.29	9.40	69	5200	31	37 7799
## 97	3.29	9.40	69	5200	31	37 7499
## 98	3.29	9.40	69	5200	31	37 7999
## 99	3.29	9.40	69	5200	31	37 8249
## 100	3.47	8.50	97	5200	27	34 8949
## 101	3.47	8.50	97	5200	27	34 9549
## 102	3.27	9.00	152	5200	17	22 13499
## 103	3.27	9.00	152	5200	17	22 14399
## 104	3.27	9.00	152	5200	19	25 13499
## 105	3.27	9.00	160	5200	19	25 17199
## 106	3.27	7.80	200	5200	17	23 19699
## 107	3.27	9.00	160	5200	19	25 18399
## 108	3.19	8.40	97	5000	19	24 11900
## 109	3.52	21.00	95	4150	28	33 13200
## 110	3.19	8.40	97	5000	19	24 12440
## 111	3.52	21.00	95	4150	25	25 13860
## 112	2.19	8.40	95	5000	19	24 15580
## 113	3.52	21.00	95	4150	28	33 16900
## 114	2.19	8.40	95	5000	19	24 16695
## 115	3.52	21.00	95	4150	25	25 17075
## 116	3.19	8.40	97	5000	19	24 16630
## 117	3.52	21.00	95	4150	28	33 17950
## 118	3.21	7.00	142	5600	18	24 18150
## 119	3.23	9.40	68	5500	37	41 5572
## 120	3.39	7.60	102	5500	24	30 7957
## 121	3.23	9.40	68	5500	31	38 6229
## 122	3.23	9.40	68	5500	31	38 6692
## 123	3.23	9.40	68	5500	31	38 7609
## 124	3.46	8.50	88	5000	24	30 8921
## 125	3.86	7.00	145	5000	19	24 12764
## 126	3.11	9.50	143	5500	19	27 22018
## 127	2.9	9.50	207	5900	17	25 32528
## 128	2.9	9.50	207	5900	17	25 34028
## 129	2.9	9.50	207	5900	17	25 37028
## 130	3.11	10.00	288	5750	17	28 ?
## 131	3.9	8.70	?	;	23	31 9295
## 132	3.9	8.70	?	?	23	31 9895
## 133	3.07	9.31	110	5250	21	28 11850
## 134	3.07	9.30	110	5250	21	28 12170
## 135	2.07	9.30	110	5250	21	28 15040
## 136	3.07	9.30	110	5250	21	28 15510
## 137	3.07	9.00	160	5500	19	26 18150
## 138	3.07	9.00	160	5500	19	26 18620
## 139	2.36	9.00	69	4900	31	36 5118
## 140	2.64	8.70	73	4400	26	31 7053
## 141	2.64	8.70	73	4400	26	31 7603
## 142	2.64	9.50	82	4800	32	37 7126
## 143	2.64	9.50	82	4400	28	33 7775
## 144	2.64	9.00	94	5200	26	32 9960
## 145	2.64	9.00	82	4800	24	25 9233
## 146	2.64	7.70	111	4800	24	29 11259

## 147	2.64	9.00	82	4800	28	32 7463
## 148	2.64	9.00	94	5200	25	31 10198
## 149	2.64	9.00	82	4800	23	29 8013
## 150	2.64	7.70	111	4800	23	23 11694
## 151	3.03	9.00	62	4800	35	39 5348
## 152	3.03	9.00	62	4800	31	38 6338
## 153	3.03	9.00	62	4800	31	38 6488
## 154	3.03	9.00	62	4800	31	37 6918
## 155	3.03	9.00	62	4800	27	32 7898
## 156	3.03	9.00	62	4800	27	32 8778
## 157	3.03	9.00	70	4800	30	37 6938
## 158	3.03	9.00	70	4800	30	37 7198
## 159	3.35	22.50	56	4500	34	36 7898
## 160	3.35	22.50	56	4500	38	47 7788
## 161	3.03	9.00	70	4800	38	47 7738
## 162	3.03	9.00	70	4800	28	34 8358
## 163	3.03	9.00	70	4800	28	34 9258
## 164	3.03	9.00	70	4800	29	34 8058
## 165	3.03	9.00	70	4800	29	34 8238
## 166	3.08	9.40	112	6600	26	29 9298
## 167	3.08	9.40	112	6600	26	29 9538
## 168	3.5	9.30	116	4800	24	30 8449
## 169	3.5	9.30	116	4800	24	30 9639
## 170	3.5	9.30	116	4800	24	30 9989
## 171	3.5	9.30	116	4800	24	30 11199
## 172	3.5	9.30	116	4800	24	30 11549
## 173	3.5	9.30	116	4800	24	30 17669
## 174	3.54	8.70	92	4200	29	34 8948
## 175	3.35	22.50	73	4500	30	33 10698
## 176	3.54	8.70	92	4200	27	32 9988
## 177	3.54	8.70	92	4200	27	32 10898
## 178	3.54	8.70	92	4200	27	32 11248
## 179	3.35	9.30	161	5200	20	24 16558
## 180	3.35	9.30	161	5200	19	24 15998
## 181	3.35	9.20	156	5200	20	24 15690
## 182	3.35	9.20	156	5200	19	24 15750
## 183	3.4	23.00	52	4800	37	46 7775
## 184	3.4	9.00	85	5250	27	34 7975
## 185	3.4	23.00	52	4800	37	46 7995
## 186	3.4	9.00	85	5250	27	34 8195
## 187	3.4	9.00	85	5250	27	34 8495
## 188	3.4	23.00	68	4500	37	42 9495
## 189	3.4	10.00	100	5500	26	32 9995
## 190	3.4	8.50	90	5500	24	29 11595
## 191	3.4	8.50	90	5500	24	29 9980
## 192	3.4	8.50	110	5500	19	24 13295
## 193	3.4	23.00	68	4500	33	38 13845
## 194	3.4	9.00	88	5500	25	31 12290
## 195	3.15	9.50	114	5400	23	28 12940
## 196	3.15	9.50	114	5400	23	28 13415
## 197	3.15	9.50	114	5400	24	28 15985

```
## 198
         3.15
                            9.50
                                          114
                                                  5400
                                                              24
                                                                           28 16515
## 199
         3.15
                            7.50
                                          162
                                                  5100
                                                              17
                                                                           22 18420
## 200
         3.15
                            7.50
                                          162
                                                  5100
                                                              17
                                                                           22 18950
## 201
                                          114
                                                  5400
         3.15
                            9.50
                                                              23
                                                                           28 16845
## 202
                                          160
                                                              19
                                                                           25 19045
         3.15
                            8.70
                                                  5300
## 203
         2.87
                            8.80
                                          134
                                                  5500
                                                              18
                                                                           23 21485
## 204
          3.4
                            23.00
                                          106
                                                  4800
                                                              26
                                                                           27 22470
## 205
                                                              19
         3.15
                            9.50
                                          114
                                                  5400
                                                                           25 22625
```

#2.Display the no. of rows and columns in the dataset (dim) $\dim(\mathrm{datasets})$

```
## [1] 205 26
```

#3. Display the header or attribute names from the dataset (names) names(datasets)

```
[1] "symboling"
                             "normalized.losses" "make"
##
   [4] "fuel.type"
                             "aspiration"
                                                 "num.of.doors"
##
## [7] "body.style"
                             "drive.wheels"
                                                 "engine.location"
## [10] "wheel.base"
                             "length"
                                                 "width"
## [13] "height"
                             "curb.weight"
                                                 "engine.type"
## [16] "num.of.cylinders"
                             "engine.size"
                                                 "fuel.system"
                             "stroke"
                                                 "compression.ratio"
## [19] "bore"
## [22] "horsepower"
                             "peak.rpm"
                                                 "city.mpg"
## [25] "highway.mpg"
                             "price"
```

```
#4.Display the structure of the dataset (str)
str(datasets)
```

```
'data.frame':
                    205 obs. of 26 variables:
##
   $ symboling
##
                       : int
                              3 3 1 2 2 2 1 1 1 0 ...
                              "?" "?" "164" ...
   $ normalized.losses: chr
##
                              "alfa-romero" "alfa-romero" "alfa-romero" "audi" ...
   $ make
##
                       : chr
   $ fuel.type
                              "gas" "gas" "gas" ...
##
                       : chr
   $ aspiration
                              "std" "std" "std" ...
##
                       : chr
                              "two" "two" "four" ...
##
   $ num.of.doors
                       : chr
                              "convertible" "convertible" "hatchback" "sedan" ...
##
   $ body.style
                       : chr
                              "rwd" "rwd" "fwd" ...
   $ drive.wheels
##
                       : chr
   $ engine.location
                              "front" "front" "front" ...
##
                      : chr
##
   $ wheel.base
                       : num
                              88.6 88.6 94.5 99.8 99.4 ...
##
   $ length
                              169 169 171 177 177 ...
                       : num
   $ width
                              64.1 64.1 65.5 66.2 66.4 66.3 71.4 71.4 71.4 67.9 ...
##
                       : num
##
   $ height
                              48.8 48.8 52.4 54.3 54.3 53.1 55.7 55.7 55.9 52 ...
                       : num
   $ curb.weight
##
                       : int
                              2548 2548 2823 2337 2824 2507 2844 2954 3086 3053 ...
   $ engine.type
                       : chr
                              "dohc" "dohc" "ohcv" "ohc" ...
##
   $ num.of.cylinders : chr
                              "four" "four" "six" "four" ...
##
##
   $ engine.size
                       : int
                              130 130 152 109 136 136 136 136 131 131 ...
##
   $ fuel.system
                              "mpfi" "mpfi" "mpfi" "...
                       : chr
                              "3.47" "3.47" "2.68" "3.19" ...
##
   $ bore
                       : chr
                              "2.68" "2.68" "3.47" "3.4" ...
##
   $ stroke
                       : chr
   $ compression.ratio: num
                              9 9 9 10 8 8.5 8.5 8.5 8.3 7 ...
##
                              "111" "111" "154" "102" ...
##
   $ horsepower
                       : chr
                              "5000" "5000" "5000" "5500" ...
   $ peak.rpm
##
                       : chr
##
   $ city.mpg
                       : int
                              21 21 19 24 18 19 19 19 17 16 ...
                              27 27 26 30 22 25 25 25 20 22 ...
##
   $ highway.mpg
                       : int
                              "13495" "16500" "16500" "13950" ...
##
  $ price
                       : chr
```

#5.View the First and Last 3 rows of the dataset. (head, tail)
head(datasets,3)

```
symboling normalized.losses
                                          make fuel.type aspiration num.of.doors
##
## 1
             3
                                 ? alfa-romero
                                                                  std
                                                      gas
             3
## 2
                                 ? alfa-romero
                                                      gas
                                                                  std
                                                                                two
## 3
             1
                                 ? alfa-romero
                                                                  std
                                                      gas
                                                                                two
      body.style drive.wheels engine.location wheel.base length width height
##
## 1 convertible
                           rwd
                                          front
                                                       88.6
                                                            168.8 64.1
                                                                            48.8
## 2 convertible
                           rwd
                                          front
                                                       88.6
                                                             168.8
                                                                     64.1
                                                                            48.8
                                                       94.5 171.2 65.5
## 3
       hatchback
                           rwd
                                          front
                                                                            52.4
     curb.weight engine.type num.of.cylinders engine.size fuel.system bore stroke
##
## 1
            2548
                         dohc
                                           four
                                                         130
                                                                     mpfi 3.47
## 2
            2548
                         dohc
                                           four
                                                         130
                                                                     mpfi 3.47
                                                                                  2.68
## 3
            2823
                                                         152
                                                                                  3.47
                         ohcv
                                            six
                                                                     mpfi 2.68
##
     compression.ratio horsepower peak.rpm city.mpg highway.mpg price
## 1
                      9
                                                    21
                               111
                                        5000
                                                                 27 13495
## 2
                      9
                               111
                                        5000
                                                    21
                                                                 27 16500
                      9
## 3
                               154
                                        5000
                                                    19
                                                                 26 16500
```

tail(datasets,3)

```
symboling normalized.losses make fuel.type aspiration num.of.doors
##
## 203
              -1
                                 95 volvo
                                                             std
                                                                         four
                                                 gas
              -1
                                 95 volvo
## 204
                                              diesel
                                                           turbo
                                                                         four
## 205
              -1
                                 95 volvo
                                                           turbo
                                                                         four
                                                 gas
       body.style drive.wheels engine.location wheel.base length width height
##
## 203
            sedan
                            rwd
                                           front
                                                      109.1 188.8 68.9
## 204
            sedan
                            rwd
                                           front
                                                      109.1 188.8
                                                                     68.9
## 205
            sedan
                            rwd
                                           front
                                                      109.1 188.8 68.9
                                                                            55.5
##
       curb.weight engine.type num.of.cylinders engine.size fuel.system bore
## 203
              3012
                           ohcv
                                              six
                                                           173
                                                                      mpfi 3.58
                                                           145
## 204
              3217
                            ohc
                                              six
                                                                       idi 3.01
                                                           141
## 205
              3062
                            ohc
                                             four
                                                                      mpfi 3.78
##
       stroke compression.ratio horsepower peak.rpm city.mpg highway.mpg price
## 203
         2.87
                             8.8
                                         134
                                                 5500
                                                             18
                                                                         23 21485
## 204
          3.4
                            23.0
                                         106
                                                 4800
                                                             26
                                                                         27 22470
## 205
         3.15
                             9.5
                                         114
                                                 5400
                                                             19
                                                                         25 22625
```

```
#6.Delete the column fuel-system, bore from the dataset by Column index number. (Use subset m ethod [,])
dataset_subset<-datasets[,-c(17,18)]
dataset_subset
```

	-	normalized.losses				num.of.doors
1	3	}	alfa-romero	gas	std	two
2	3	}	alfa-romero	gas	std	two
3	1	}	alfa-romero	gas	std	two
4	2	164	audi	gas	std	four
5	2	164	audi	gas	std	four
6	2	;	audi	gas	std	two
7	1	158	audi	gas	std	four
8	1	;	audi	gas	std	four
9	1	158	audi	gas	turbo	four
10	0	;	audi	gas	turbo	two
11	2	192	bmw	gas	std	two
12	0	192	bmw	gas	std	four
13	0	188	bmw	gas	std	two
14	0	188	bmw	gas	std	four
15	1	}	bmw	gas	std	four
16	0	?	bmw	gas	std	four
17	0	?	bmw	gas	std	two
18	0	;	bmw	gas	std	four
19	2	121	chevrolet	gas	std	two
20	1	98	chevrolet	gas	std	two
21	0	81	chevrolet	gas	std	four
22	1	118	dodge	gas	std	two
23	1	118	dodge	gas	std	two
24	1	118	dodge	gas	turbo	two
25	1	148	dodge	gas	std	four
26	1	148	dodge	gas	std	four
27	1	148	dodge	gas	std	four
28	1	148	dodge	gas	turbo	;
29	-1	110	dodge	gas	std	four
30	3	145	dodge	gas	turbo	two
31	2	137	honda	gas	std	two
32	2	137	honda	gas	std	two
33	1	101	honda	gas	std	two
34	1	101	honda	gas	std	two
35	1	101	honda	gas	std	two
36	0	110	honda	gas	std	four
37	0	78	honda	gas	std	four
38	0	106	honda	gas	std	two
39	0	106	honda	gas	std	two
40	0	85	honda	gas	std	four
41	0	85	honda	gas	std	four
42	0	85	honda	gas	std	four
43	1	107	honda	gas	std	two
44	0	?	isuzu	gas	std	four
45	1	;	isuzu	gas	std	two
46	0	?	isuzu	gas	std	four
47	2	?	isuzu	gas	std	two
48	0	145	jaguar	gas	std	four
49	0	?	jaguar	gas	std	four
50	0		jaguar	gas	std	two

##	51	1	104	mazda	gas	std	two
##	52	1	104	mazda	gas	std	two
##	53	1	104	mazda	gas	std	two
##	54	1	113	mazda	gas	std	four
##	55	1	113	mazda	gas	std	four
##	56	3	150	mazda	gas	std	two
##	57	3	150	mazda	gas	std	two
##	58	3	150	mazda	gas	std	two
##	59	3	150	mazda	gas	std	two
##	60	1	129	mazda	gas	std	two
##	61	0	115	mazda	gas	std	four
##	62	1	129	mazda	gas	std	two
##	63	0	115	mazda	gas	std	four
##	64	0	;	mazda	diesel	std	?
##	65	0	115	mazda	gas	std	four
##	66	0	118	mazda	gas	std	four
##	67	0	?	mazda	diesel	std	four
##	68	-1	93	mercedes-benz	diesel	turbo	four
##	69	-1	93	mercedes-benz	diesel	turbo	four
##	70	0	93	mercedes-benz	diesel	turbo	two
##	71	-1	93	mercedes-benz	diesel	turbo	four
##	72	-1	?	mercedes-benz	gas	std	four
##	73	3	142	mercedes-benz	gas	std	two
##	74	0	;	mercedes-benz	gas	std	four
##	75	1	?	mercedes-benz	gas	std	two
##	76	1	?	mercury	gas	turbo	two
##	77	2	161	mitsubishi	gas	std	two
##	78	2	161	mitsubishi	gas	std	two
##	79	2	161	mitsubishi	gas	std	two
##	80	1	161	mitsubishi	gas	turbo	two
##	81	3	153	mitsubishi	gas	turbo	two
##	82	3	153	mitsubishi	gas	std	two
##	83	3	;	mitsubishi	gas	turbo	two
##	84	3	;	mitsubishi	gas	turbo	two
##	85	3	;	mitsubishi	gas	turbo	two
##	86	1	125	mitsubishi	gas	std	four
##	87	1	125	mitsubishi	gas	std	four
##	88	1	125		gas	turbo	four
##	89	-1	137	mitsubishi	gas	std	four
##	90	1	128	nissan	gas	std	two
##		1	128	nissan	diesel	std	two
##	92	1	128	nissan	gas	std	two
##	93	1	122	nissan	gas	std	four
##	94	1	103	nissan	gas	std	four
##		1	128	nissan	gas	std	two
##		1	128	nissan	gas	std	two
##		1	122	nissan	gas	std	four
##		1	103	nissan	gas	std	four
##		2	168	nissan	gas	std	two
	100	0	106	nissan	gas	std	four
##	101	0	106	nissan	gas	std	four

## 102	0	128	nissan	gas	std	four
## 103	0	108	nissan	gas	std	four
## 104	0	108	nissan	gas	std	four
## 105	3	194	nissan	gas	std	two
## 106	3	194	nissan	gas	turbo	two
## 107	1	231	nissan	gas	std	two
## 108	0	161	peugot	gas	std	four
## 109	0	161	peugot	diesel	turbo	four
## 110	0	?	peugot	gas	std	four
## 111	0	?	peugot	diesel	turbo	four
## 112	0	161	peugot	gas	std	four
## 113	0	161	peugot	diesel	turbo	four
## 114	0	?	peugot	gas	std	four
## 115	0	?	peugot	diesel	turbo	four
## 116	0	161	peugot	gas	std	four
## 117	0	161	peugot	diesel	turbo	four
## 118	0	161	peugot	gas	turbo	four
## 119	1	119	plymouth	gas	std	two
## 120	1	119	plymouth	gas	turbo	two
## 121	1	154	plymouth	gas	std	four
## 122	1	154	plymouth	gas	std	four
## 123	1	154	plymouth	gas	std	four
## 124	-1	74	plymouth	gas	std	four
## 125	3	?	plymouth	gas	turbo	two
## 126	3	186	porsche	gas	std	two
## 127	3	?	porsche	gas	std	two
## 128	3	?	porsche	gas	std	two
## 129	3	?	porsche	gas	std	two
## 130	1	?	porsche	gas	std	two
## 131	0	?	renault	gas	std	four
## 132	2	?	renault	gas	std	two
## 133	3	150	saab	gas	std	two
## 134	2	104	saab	gas	std	four
## 135	3	150	saab	gas	std	two
## 136	2	104	saab	gas	std	four
## 137	3	150	saab	gas	turbo	two
## 138	2	104	saab	gas	turbo	four
## 139	2	83	subaru	gas	std	two
## 140	2	83	subaru	gas	std	two
## 141	2	83	subaru	gas	std	two
## 142	0	102	subaru	gas	std	four
## 143	0	102	subaru	gas	std	four
## 144	0	102	subaru	gas	std	four
## 145	0	102	subaru	gas	std	four
## 146	0	102	subaru	gas	turbo	four
## 147	0	89	subaru	gas	std	four
## 148	0	89	subaru	gas	std	four
## 149	0	85	subaru	gas	std	four
## 150	0	85	subaru	gas	turbo	four
## 151	1	87	toyota	gas	std	two
## 152	1	87	toyota	gas	std	two
			,	J		

## 153	1	74	toyota	gas	std	four
## 154	0	77	toyota	gas	std	four
## 155	0	81	toyota	gas	std	four
## 156	0	91	toyota	gas	std	four
## 157	0	91	toyota	gas	std	four
## 158	0	91	toyota	gas	std	four
## 159	0	91	toyota	diesel	std	four
## 160	0	91	toyota	diesel	std	four
## 161	0	91	toyota	gas	std	four
## 162	0	91	toyota	gas	std	four
## 163	0	91	toyota	gas	std	four
## 164	1	168	toyota	gas	std	two
## 165	1	168	toyota	gas	std	two
## 166	1	168	toyota	gas	std	two
## 167	1	168	toyota	gas	std	two
## 168	2	134	toyota	gas	std	two
## 169	2	134	toyota	gas	std	two
## 170	2	134	toyota	gas	std	two
## 171	2	134	toyota	gas	std	two
## 172	2	134	toyota	gas	std	two
## 173	2	134	toyota	gas	std	two
## 174	-1	65	toyota	gas	std	four
## 175	-1	65	toyota	diesel	turbo	four
## 176	-1	65	toyota	gas	std	four
## 177	-1	65	toyota	gas	std	four
## 178	-1	65	toyota	gas	std	four
## 179	3	197	toyota	gas	std	two
## 180	3	197	toyota	gas	std	two
## 181	-1	90	toyota	gas	std	four
## 182	-1	;	toyota	gas	std	four
## 183	2	122	volkswagen	diesel	std	two
## 184	2	122	volkswagen	gas	std	two
## 185	2	94	volkswagen	diesel	std	four
## 186	2	94	volkswagen	gas	std	four
## 187	2	94	volkswagen	gas	std	four
## 188	2	94	volkswagen	diesel	turbo	four
## 189	2	94	volkswagen	gas	std	four
## 190	3	?	volkswagen	gas	std	two
## 191	3	256	volkswagen	gas	std	two
## 192	0	?	volkswagen	gas	std	four
## 193	0	?	volkswagen	diesel	turbo	four
## 194	0	?	volkswagen	gas	std	four
## 195	-2	103	volvo	gas	std	four
## 196	-1	74	volvo	gas	std	four
## 197	-2	103	volvo	gas	std	four
## 198	-1	74	volvo	gas	std	four
## 199	-2	103	volvo	gas	turbo	four
## 200	-1	74	volvo	gas	turbo	four
## 201	-1	95	volvo	gas	std	four
## 202	-1	95	volvo	gas	turbo	four
## 203	-1	95	volvo	gas	std	four

## 205	##	204	-1		95	volvo	diesel	tı	urbo	fo	ur
## 1 convertible	##	205	-1		95	volvo	gas gas	tı	ırbo	fo	ur
## 2 convertible rwd front	##		body.style	drive.wheels	engine.lo	cation	wheel.base	length	width	height	
## 3 hatchback rwd front 94.5 171.2 65.5 52.4 ## 4 sedan fwd front 99.8 176.6 66.2 54.3 ## 5 sedan fwd front 99.8 176.6 66.2 54.3 ## 6 sedan fwd front 99.8 177.3 66.3 53.1 ## 7 sedan fwd front 185.8 192.7 71.4 55.7 ## 8 wagon fwd front 185.8 192.7 71.4 55.7 ## 9 sedan fwd front 185.8 192.7 71.4 55.7 ## 9 sedan fwd front 185.8 192.7 71.4 55.7 ## 10 hatchback 4wd front 99.5 178.2 67.9 52.0 ## 11 sedan rwd front 181.2 176.8 64.8 54.3 ## 13 sedan rwd front 181.2 176.8 64.8 54.3 ## 14 sedan rwd front 181.2 176.8 64.8 54.3 ## 15 sedan rwd front 181.2 176.8 64.8 54.3 ## 16 sedan rwd front 181.5 189.0 66.9 55.7 ## 17 sedan rwd front 183.5 189.0 66.9 55.7 ## 18 sedan rwd front 183.5 189.0 66.9 55.7 ## 19 hatchback fwd front 180.5 189.0 66.9 55.7 ## 19 hatchback fwd front 180.5 189.0 66.9 55.7 ## 19 hatchback fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 94.5 158.8 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 26 sedan fwd front 93.7 157.3 63.8 50.8 ## 28 sedan fwd front 93.7 157.3 63.8 50.8 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 93.7 157.3 63.8 50.6 ## 38 hatchback fwd front 93.7 157.3 63.8 50.6 ## 39 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.0 63.8 50.2 ## 35 hatchback fwd front 93.7 157.0 63.8 50.2 ## 38 hatchback fwd fr	##	1	convertible	rwd		front	88.6	168.8	64.1	48.8	
## 4 sedan fwd front 99.8 176.6 66.2 54.3 ## 5 sedan fwd front 99.4 176.6 66.4 54.3 ## 6 sedan fwd front 99.8 177.3 66.3 53.1 ## 7 sedan fwd front 105.8 192.7 71.4 55.7 ## 8 wagon fwd front 105.8 192.7 71.4 55.7 ## 9 sedan fwd front 105.8 192.7 71.4 55.7 ## 10 hatchback 4wd front 105.8 192.7 71.4 55.7 ## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 103.5 189.0 66.9 55.7 ## 17 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 189.0 66.9 55.7 ## 19 hatchback fwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 12 sedan fwd front 103.5 193.8 67.9 53.7 ## 12 sedan fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 27 sedan fwd front 93.7 157.3 63.8 50.8 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 95.9 173.2 66.3 50.2 \$8.8 ## 33 hatchback fwd front 95.9 173.2 66.3 50.2 \$8.8 ## 33 hatchback fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 157.4 62.5 54.1 ## 44 sedan fwd front 96.5 175.4 62.5 54.1 ## 44 sedan fwd front 96.5 175.4 62.5 54.1 ## 44 sedan fwd front 96.5 175.4 62.5 54.1 ## 44 sedan fwd front 96.5	##	2	convertible	rwd		front	88.6	168.8	64.1	48.8	
## 5 sedan	##	3	hatchback	rwd		front	94.5	171.2	65.5	52.4	
## 6 sedan fwd front 99.8 177.3 66.3 53.1 ## 7 sedan fwd front 105.8 192.7 71.4 55.7 ## 8 wagon fwd front 105.8 192.7 71.4 55.7 ## 9 sedan fwd front 105.8 192.7 71.4 55.5 ## 10 hatchback 4wd front 99.5 178.2 67.9 52.0 ## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 13 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 16 sedan rwd front 103.5 189.0 66.9 55.7 ## 17 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 21 sedan fwd front 94.5 158.8 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 30 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 sedan fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 93.7 157.3 63.8 50.6 ## 37 sedan fwd front 93.7 157.3 63.8 50.6 ## 38 hatchback fwd front 93.7 157.3 63.8 50.6 ## 39 wagon fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 95.9 173.2 66.3 50.2 ## 32 hatchback fwd front 95.9 173.2 66.3 50.2 ## 33 hatchback fwd front 96.5 167.5 65.2 53.3 ## 34 hatchback fwd front 96.5 167.5 65.2 53.3 ## 38 hatchback fwd front 96.5 175.4 62.5 54.1 ## 34 sedan fwd front 96.5 175.4 62.5 54.1 ## 44 sedan fwd front 96.5 175.4 62.5 54.1 ## 45 sedan fwd front 96.5 175.4 65.2 54.1 ## 44 sedan fwd front 96.5 175.4 65.2 54.1 ## 45 sedan fwd front 96.5 175.4 65.2 54.1 ## 46 sedan fwd front 96.5 175.4 6	##	4	sedan	fwd		front	99.8	176.6	66.2	54.3	
## 7 sedan fwd front 105.8 192.7 71.4 55.7 ## 8 wagon fwd front 105.8 192.7 71.4 55.7 ## 9 sedan fwd front 105.8 192.7 71.4 55.7 ## 10 hatchback 4wd front 105.8 192.7 71.4 55.9 ## 10 hatchback 4wd front 105.8 192.7 71.4 55.9 \$2.0 ## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 13 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 103.5 189.0 66.9 55.7 ## 16 sedan rwd front 103.5 189.0 66.9 55.7 ## 17 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 sedan rwd front 94.5 155.9 63.6 52.0 fwd front 93.7 157.3 63.8 50.8 fwd front 93.7 157.3 63.8 50.6 fwd front 93.7 157.3 63.8	##	5	sedan	4wd		front	99.4	176.6	66.4	54.3	
## 8 wagon fwd front 105.8 192.7 71.4 55.7 ## 9 sedan fwd front 105.8 192.7 71.4 55.9 ## 10 hatchback 4wd front 99.5 178.2 67.9 52.0 ## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 13 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 102.1 176.8 64.8 54.3 ## 15 sedan rwd front 102.5 189.0 66.9 55.7 ## 16 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 189.0 66.9 55.7 ## 19 hatchback fwd front 103.5 189.0 66.9 55.7 ## 19 hatchback fwd front 100.0 197.0 70.9 56.3 ## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 94.5 155.9 63.6 52.0 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 30 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 sedan fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 sedan fwd front 93.7 157.3 63.8 50.6 ## 37 wagon fwd front 93.7 157.3 63.8 50.6 ## 38 hatchback fwd front 93.7 157.3 63.8 50.6 ## 39 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 sedan fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 95.5 157.4 65.2 54.1 ## 34 sedan fwd front 96.5 157.4 65.2 54.1 ## 44 sedan fwd front 96.5 157.4 65.2 54.1 ## 44 sedan fwd front 96.5 157.5 65.2 53.3 ## 48 sedan fwd front 96.5 157.5 65.2 53.3 ## 48 sedan fwd front 96.5 157.5 65.2 54.1 ## 44 sedan fwd front 96.5 157.5 65.2 53.3 ## 46 sedan fwd front 96.5 157.5 65.2 54.1 ## 45 sedan fwd front 96.5 157.6 65.2 51.4 ## 46 sedan fwd front 96.5 157.6 65.2 51.4 ## 47 hatchback rwd front 96.0 172.6	##	6	sedan	fwd		front	99.8	177.3	66.3	53.1	
## 9 sedan fwd front 105.8 192.7 71.4 55.9 ## 10 hatchback 4wd front 99.5 178.2 67.9 52.0 ## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 13 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 16 sedan rwd front 101.2 176.8 64.8 54.3 ## 17 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 19 hatchback fwd front 88.4 141.1 60.3 53.2 ## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 21 sedan fwd front 94.5 158.8 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 93.7 157.3 63.8 50.6 ## 37 wagon fwd front 93.7 157.3 63.8 50.6 ## 38 hatchback fwd front 93.7 157.3 63.8 50.6 ## 39 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 93.7 157.3 63.8 50.6 ## 38 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 157.1 63.9 58.3 ## 31 hatchback fwd front 96.5 157.4 65.2 53.3 ## 44 sedan fwd front 96.5 157.5 65.2 53.3 ## 45 sedan fwd front 96.5 157.5 65.2 53.3 ## 46 sedan fwd front 96.5 157.5 65.2 53.3 ## 47 sedan fwd front 96.5 155.9 63.6 52.0 ## 48 sedan fwd front 96.5 155.9 63.6 52.0 ## 55.0 56.0 52.0 53.4 ## 55.0 56.0 52.0 53.1 ## 55.0 56.0	##	7	sedan	fwd		front	105.8	192.7	71.4	55.7	
## 10 hatchback	##	8	wagon	fwd		front	105.8	192.7	71.4	55.7	
## 11 sedan rwd front 101.2 176.8 64.8 54.3 ## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 13 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 103.5 189.0 66.9 55.7 ## 16 sedan rwd front 103.5 189.0 66.9 55.7 ## 17 sedan rwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 19 hatchback fwd front 103.5 193.8 67.9 53.7 ## 20 hatchback fwd front 94.5 155.8 63.6 52.0 ## 21 sedan fwd front 94.5 155.8 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 wagon fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 93.7 157.3 63.8 50.6 ## 37 wagon fwd front 93.7 157.3 63.8 50.6 ## 38 hatchback fwd front 93.7 157.3 63.8 50.6 ## 39 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 95.9 173.2 66.3 50.2 ## 33 hatchback fwd front 95.9 173.2 66.3 50.2 ## 34 hatchback fwd front 96.5 157.0 64.0 52.6 ## 35 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 62.5 54.1 ## 43 sedan fwd front 96.5 157.5 65.2 53.3 ## 44 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 46 sedan fwd front 96.5 155.9 63.6 52.0 ## 47 hatchback fwd front 96.5 155.9 63.6 52.0 ## 48 sedan fwd front 96.5 155.9 63.6 52.0	##	9	sedan	fwd		front	105.8	192.7	71.4	55.9	
## 12 sedan rwd front 101.2 176.8 64.8 54.3 ## 13 sedan rwd front 101.2 176.8 64.8 54.3 ## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 103.5 189.0 66.9 55.7 ## 16 sedan rwd front 103.5 189.0 66.9 55.7 ## 17 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 19 hatchback fwd front 88.4 141.1 60.3 53.2 ## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 21 sedan fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 95.9 173.2 66.3 50.2 ## 33 hatchback fwd front 95.9 175.0 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 95.9 175.2 65.3 50.2 ## 38 hatchback fwd front 95.9 175.2 65.3 50.8 ## 39 hatchback fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 157.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 175.4 65.2 54.1 ## 44 sedan rwd front 96.5 155.9 63.6 52.0 ## 44 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 46 sedan fwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0	##	10	hatchback	4wd		front	99.5	178.2	67.9	52.0	
## 13	##	11	sedan	rwd		front	101.2	176.8	64.8	54.3	
## 14 sedan rwd front 101.2 176.8 64.8 54.3 ## 15 sedan rwd front 103.5 189.0 66.9 55.7 ## 16 sedan rwd front 103.5 189.0 66.9 55.7 ## 17 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 189.0 66.9 55.7 ## 18 sedan rwd front 103.5 193.8 67.9 53.7 ## 18 sedan rwd front 104.0 197.0 70.9 56.3 ## 19 hatchback fwd front 88.4 141.1 60.3 53.2 ## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 21 sedan fwd front 94.5 155.9 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 30 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 93.7 157.3 63.8 50.6 ## 32 sedan fwd front 93.7 157.3 63.8 50.6 ## 33 hatchback fwd front 93.7 157.3 63.8 50.6 ## 34 hatchback fwd front 93.7 157.3 63.8 50.6 ## 35 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 95.9 173.2 66.3 50.2 ## 33 hatchback fwd front 96.6 144.6 63.9 50.8 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 167.5 65.2 53.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 38 hatchback fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 175.4 65.2 54.1 ## 44 sedan fwd front 94.5 155.9 63.6 52.0 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0	##	12	sedan	rwd		front	101.2	176.8	64.8	54.3	
## 15	##	13	sedan	rwd		front	101.2	176.8	64.8	54.3	
## 16	##	14	sedan	rwd		front	101.2	176.8	64.8	54.3	
## 17	##	15	sedan	rwd		front	103.5	189.0	66.9	55.7	
## 18	##	16	sedan	rwd		front	103.5	189.0	66.9	55.7	
## 19 hatchback fwd front 88.4 141.1 60.3 53.2 ## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 21 sedan fwd front 94.5 158.8 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 93.7 157.3 63.8 50.6 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 95.9 173.2 66.3 50.2 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 37 wagon fwd front 96.5 163.4 64.0 54.5 ## 39 hatchback fwd front 96.5 163.4 64.0 54.5 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 62.5 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 155.9 63.6 52.0 ## 44 sedan fwd front 94.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 46 sedan fwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	17	sedan	rwd		front	103.5	193.8	67.9	53.7	
## 20 hatchback fwd front 94.5 155.9 63.6 52.0 ## 21 sedan fwd front 94.5 158.8 63.6 52.0 ## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.8 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 30 hatchback fwd front 93.7 157.3 63.8 50.6 ## 31 hatchback fwd front 95.9 173.2 66.3 50.2 ## 32 hatchback fwd front 95.9 173.2 66.3 50.2 ## 33 hatchback fwd front 86.6 144.6 63.9 50.8 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 175.4 65.2 54.1 ## 44 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	18	sedan	rwd		front	110.0	197.0	70.9	56.3	
## 21	##	19	hatchback	fwd		front	88.4	141.1	60.3	53.2	
## 22 hatchback fwd front 93.7 157.3 63.8 50.8 ## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.5 65.2 53.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 62.5 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 62.5 54.1 ## 43 sedan fwd front 96.5 155.9 63.6 52.0 ## 44 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 96.5 155.9 63.6 52.0 ## 46 sedan fwd front 96.5 155.9 63.6 52.0 ## 46 sedan fwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	20	hatchback	fwd		front	94.5	155.9	63.6	52.0	
## 23 hatchback fwd front 93.7 157.3 63.8 50.8 ## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 93.7 150.0 64.0 52.6 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.5 65.2 53.3 ## 38 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 169.1 66.0 51.0 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan fwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0	##	21	sedan	fwd		front	94.5	158.8	63.6	52.0	
## 24 hatchback fwd front 93.7 157.3 63.8 50.8 ## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.5 65.2 53.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.5 155.9 63.6 52.0 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.2 51.4	##	22	hatchback	fwd		front	93.7	157.3	63.8	50.8	
## 25 hatchback fwd front 93.7 157.3 63.8 50.6 ## 26 sedan fwd front 93.7 157.3 63.8 50.6 ## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan fwd front 94.5 155.9 63.6 52.0 ## 45 hatchback rwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	23	hatchback	fwd		front	93.7	157.3	63.8	50.8	
## 26	##	24	hatchback	fwd		front	93.7	157.3	63.8	50.8	
## 27 sedan fwd front 93.7 157.3 63.8 50.6 ## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 96.5 169.1 66.0 51.0 ## 44 sedan fwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	25	hatchback	fwd		front	93.7	157.3	63.8	50.6	
## 28 sedan fwd front 93.7 157.3 63.8 50.6 ## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 167.1 63.9 58.3 ## 38 hatchback fwd front 96.5 157.1 63.9 58.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 96.5 155.9 63.6 52.0 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	26	sedan	fwd		front	93.7	157.3	63.8	50.6	
## 29 wagon fwd front 103.3 174.6 64.6 59.8 ## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 96.5 169.1 66.0 51.0 ## 44 sedan fwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	27	sedan	fwd		front	93.7	157.3	63.8	50.6	
## 30 hatchback fwd front 95.9 173.2 66.3 50.2 ## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan fwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	28	sedan	fwd		front	93.7	157.3	63.8	50.6	
## 31 hatchback fwd front 86.6 144.6 63.9 50.8 ## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	29	wagon	fwd		front	103.3	174.6	64.6	59.8	
## 32 hatchback fwd front 86.6 144.6 63.9 50.8 ## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	30	hatchback	fwd		front	95.9	173.2	66.3	50.2	
## 33 hatchback fwd front 93.7 150.0 64.0 52.6 ## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	31	hatchback	fwd		front	86.6	144.6	63.9	50.8	
## 34 hatchback fwd front 93.7 150.0 64.0 52.6 ## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 65.2 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	32	hatchback	fwd		front	86.6	144.6	63.9	50.8	
## 35 hatchback fwd front 93.7 150.0 64.0 52.6 ## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 175.4 65.2 54.1 ## 44 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	33	hatchback				93.7	150.0	64.0	52.6	
## 36 sedan fwd front 96.5 163.4 64.0 54.5 ## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 96.5 169.1 66.0 51.0 ## 45 sedan fwd front 94.3 170.7 61.8 53.5 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 94.5 155.9 63.6 52.0	##	34	hatchback			front	93.7		64.0	52.6	
## 37 wagon fwd front 96.5 157.1 63.9 58.3 ## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 38 hatchback fwd front 96.5 167.5 65.2 53.3 ## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 39 hatchback fwd front 96.5 167.5 65.2 53.3 ## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4			_								
## 40 sedan fwd front 96.5 175.4 65.2 54.1 ## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 41 sedan fwd front 96.5 175.4 62.5 54.1 ## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4	##	39									
## 42 sedan fwd front 96.5 175.4 65.2 54.1 ## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 43 sedan fwd front 96.5 169.1 66.0 51.0 ## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 44 sedan rwd front 94.3 170.7 61.8 53.5 ## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 45 sedan fwd front 94.5 155.9 63.6 52.0 ## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 46 sedan fwd front 94.5 155.9 63.6 52.0 ## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 47 hatchback rwd front 96.0 172.6 65.2 51.4											
## 48 sedan rwd front 113.0 199.6 69.6 52.8											
	##	48	sedan	rwd		front	113.0	199.6	69.6	52.8	

##	49	sedan	rwd	front	113.0	199.6	69.6	52.8
##	50	sedan	rwd	front	102.0	191.7	70.6	47.8
##	51	hatchback	fwd	front	93.1	159.1	64.2	54.1
##	52	hatchback	fwd	front	93.1	159.1	64.2	54.1
##	53	hatchback	fwd	front	93.1	159.1	64.2	54.1
##	54	sedan	fwd	front	93.1	166.8	64.2	54.1
##	55	sedan	fwd	front	93.1	166.8	64.2	54.1
##	56	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	57	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	58	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	59	hatchback	rwd	front	95.3	169.0	65.7	49.6
##	60	hatchback	fwd	front	98.8	177.8	66.5	53.7
##	61	sedan	fwd	front	98.8	177.8	66.5	55.5
##	62	hatchback	fwd	front	98.8	177.8	66.5	53.7
##	63	sedan	fwd	front	98.8	177.8	66.5	55.5
##	64	sedan	fwd	front	98.8	177.8	66.5	55.5
##	65	hatchback	fwd	front	98.8	177.8	66.5	55.5
##	66	sedan	rwd	front	104.9	175.0	66.1	54.4
##	67	sedan	rwd	front	104.9	175.0	66.1	54.4
##	68	sedan	rwd	front	110.0	190.9	70.3	56.5
##	69	wagon	rwd	front	110.0	190.9	70.3	58.7
##	70	hardtop	rwd	front	106.7	187.5	70.3	54.9
##	71	sedan	rwd	front	115.6	202.6	71.7	56.3
##	72	sedan	rwd	front	115.6	202.6	71.7	56.5
##	73	convertible	rwd	front	96.6	180.3	70.5	50.8
##	74	sedan	rwd	front	120.9	208.1	71.7	56.7
##	75	hardtop	rwd	front	112.0	199.2	72.0	55.4
##	76	hatchback	rwd	front	102.7	178.4	68.0	54.8
##	77	hatchback	fwd	front	93.7	157.3	64.4	50.8
##	78	hatchback	fwd	front	93.7	157.3	64.4	50.8
##	79	hatchback	fwd	front	93.7	157.3	64.4	50.8
##	80	hatchback	fwd	front	93.0	157.3	63.8	50.8
##	81	hatchback	fwd	front	96.3	173.0	65.4	49.4
##	82	hatchback	fwd	front	96.3	173.0	65.4	49.4
##	83	hatchback	fwd	front	95.9	173.2	66.3	50.2
##	84	hatchback	fwd	front	95.9	173.2	66.3	50.2
##	85	hatchback	fwd	front	95.9	173.2	66.3	50.2
##	86	sedan	fwd	front	96.3	172.4	65.4	51.6
##		sedan	fwd	front	96.3	172.4	65.4	51.6
##	88	sedan	fwd	front	96.3	172.4	65.4	51.6
##	89	sedan	fwd	front	96.3	172.4	65.4	51.6
##	90	sedan	fwd	front	94.5	165.3	63.8	54.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		wagon	fwd	front	94.5	170.2	63.8	53.5
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		hatchback	fwd	front	94.5	165.6	63.8	53.3
##		sedan	fwd	front	94.5	165.3	63.8	54.5
##		wagon	fwd	front	94.5	170.2	63.8	53.5
##	99	hardtop	fwd	front	95.1	162.4	63.8	53.3

##	100	hatchback	fwd	front	97.2	173.4	65.2	54.7
##	101	sedan	fwd	front	97.2	173.4	65.2	54.7
##	102	sedan	fwd	front	100.4	181.7	66.5	55.1
##	103	wagon	fwd	front	100.4	184.6	66.5	56.1
##	104	sedan	fwd	front	100.4	184.6	66.5	55.1
##	105	hatchback	rwd	front	91.3	170.7	67.9	49.7
##	106	hatchback	rwd	front	91.3	170.7	67.9	49.7
##	107	hatchback	rwd	front	99.2	178.5	67.9	49.7
##	108	sedan	rwd	front	107.9	186.7	68.4	56.7
##	109	sedan	rwd	front	107.9	186.7	68.4	56.7
##	110	wagon	rwd	front	114.2	198.9	68.4	58.7
##	111	wagon	rwd	front	114.2	198.9	68.4	58.7
##	112	sedan	rwd	front	107.9	186.7	68.4	56.7
##	113	sedan	rwd	front	107.9	186.7	68.4	56.7
##	114	wagon	rwd	front	114.2	198.9	68.4	56.7
##	115	wagon	rwd	front	114.2	198.9	68.4	58.7
##	116	sedan	rwd	front	107.9	186.7	68.4	56.7
##	117	sedan	rwd	front	107.9	186.7	68.4	56.7
##	118	sedan	rwd	front	108.0	186.7	68.3	56.0
##	119	hatchback	fwd	front	93.7	157.3	63.8	50.8
##	120	hatchback	fwd	front	93.7	157.3	63.8	50.8
##	121	hatchback	fwd	front	93.7	157.3	63.8	50.6
##	122	sedan	fwd	front	93.7	167.3	63.8	50.8
##	123	sedan	fwd	front	93.7	167.3	63.8	50.8
##	124	wagon	fwd	front	103.3	174.6	64.6	59.8
##	125	hatchback	rwd	front	95.9	173.2	66.3	50.2
##	126	hatchback	rwd	front	94.5	168.9	68.3	50.2
##	127	hardtop	rwd	rear	89.5	168.9	65.0	51.6
##	128	hardtop	rwd	rear	89.5	168.9	65.0	51.6
##	129	convertible	rwd	rear	89.5	168.9	65.0	51.6
##	130	hatchback	rwd	front	98.4	175.7	72.3	50.5
##	131	wagon	fwd	front	96.1	181.5	66.5	55.2
##	132	hatchback	fwd	front	96.1	176.8	66.6	50.5
##	133	hatchback	fwd	front	99.1	186.6	66.5	56.1
##	134	sedan	fwd	front	99.1	186.6	66.5	56.1
##	135	hatchback	fwd	front	99.1	186.6	66.5	56.1
##	136	sedan	fwd	front	99.1	186.6	66.5	56.1
##	137	hatchback	fwd	front	99.1	186.6	66.5	56.1
##	138	sedan	fwd	front	99.1	186.6	66.5	56.1
##	139	hatchback	fwd	front	93.7	156.9	63.4	53.7
##	140	hatchback	fwd	front	93.7	157.9	63.6	53.7
##	141	hatchback	4wd	front	93.3	157.3	63.8	55.7
##	142	sedan	fwd	front	97.2	172.0	65.4	52.5
##	143	sedan	fwd	front	97.2	172.0	65.4	52.5
##	144	sedan	fwd	front	97.2	172.0	65.4	52.5
##	145	sedan	4wd	front	97.0	172.0	65.4	54.3
##	146	sedan	4wd	front	97.0	172.0	65.4	54.3
##	147	wagon	fwd	front	97.0	173.5	65.4	53.0
##	148	wagon	fwd	front	97.0	173.5	65.4	53.0
##	149	wagon	4wd	front	96.9	173.6	65.4	54.9
##	150	wagon	4wd	front	96.9	173.6	65.4	54.9

##	151	hatchback	fwd	front	95.7	158.7	63.6	54.5
##	152	hatchback	fwd	front	95.7	158.7	63.6	54.5
##	153	hatchback	fwd	front	95.7	158.7	63.6	54.5
##	154	wagon	fwd	front	95.7	169.7	63.6	59.1
##	155	wagon	4wd	front	95.7	169.7	63.6	59.1
##	156	wagon	4wd	front	95.7	169.7	63.6	59.1
##	157	sedan	fwd	front	95.7	166.3	64.4	53.0
##	158	hatchback	fwd	front	95.7	166.3	64.4	52.8
##	159	sedan	fwd	front	95.7	166.3	64.4	53.0
##	160	hatchback	fwd	front	95.7	166.3	64.4	52.8
##	161	sedan	fwd	front	95.7	166.3	64.4	53.0
##	162	hatchback	fwd	front	95.7	166.3	64.4	52.8
##	163	sedan	fwd	front	95.7	166.3	64.4	52.8
##	164	sedan	rwd	front	94.5	168.7	64.0	52.6
##	165	hatchback	rwd	front	94.5	168.7	64.0	52.6
##	166	sedan	rwd	front	94.5	168.7	64.0	52.6
##	167	hatchback	rwd	front	94.5	168.7	64.0	52.6
##	168	hardtop	rwd	front	98.4	176.2	65.6	52.0
##	169	hardtop	rwd	front	98.4	176.2	65.6	52.0
##	170	hatchback	rwd	front	98.4	176.2	65.6	52.0
##	171	hardtop	rwd	front	98.4	176.2	65.6	52.0
##	172	hatchback	rwd	front	98.4	176.2	65.6	52.0
##	173	convertible	rwd	front	98.4	176.2	65.6	53.0
##	174	sedan	fwd	front	102.4	175.6	66.5	54.9
##	175	sedan	fwd	front	102.4	175.6	66.5	54.9
##	176	hatchback	fwd	front	102.4	175.6	66.5	53.9
##	177	sedan	fwd	front	102.4	175.6	66.5	54.9
##	178	hatchback	fwd	front	102.4	175.6	66.5	53.9
##	179	hatchback	rwd	front	102.9	183.5	67.7	52.0
##	180	hatchback	rwd	front	102.9	183.5	67.7	52.0
##	181	sedan	rwd	front	104.5	187.8	66.5	54.1
##	182	wagon	rwd	front	104.5	187.8	66.5	54.1
##	183	sedan	fwd	front	97.3	171.7	65.5	55.7
##	184	sedan	fwd	front	97.3	171.7	65.5	55.7
##	185	sedan	fwd	front	97.3	171.7	65.5	55.7
##	186	sedan	fwd	front	97.3	171.7	65.5	55.7
##	187	sedan	fwd	front	97.3	171.7	65.5	55.7
##	188	sedan	fwd	front	97.3	171.7	65.5	55.7
##	189	sedan	fwd	front	97.3	171.7	65.5	55.7
##	190	convertible	fwd	front	94.5	159.3	64.2	55.6
##	191	hatchback	fwd	front	94.5	165.7	64.0	51.4
##	192	sedan	fwd	front	100.4	180.2	66.9	55.1
##	193	sedan	fwd	front	100.4	180.2	66.9	55.1
##	194	wagon	fwd	front	100.4	183.1	66.9	55.1
##	195	sedan	rwd	front	104.3	188.8	67.2	56.2
	196	wagon	rwd	front	104.3	188.8	67.2	57.5
##	197	sedan	rwd	front	104.3	188.8	67.2	56.2
	198	wagon	rwd	front	104.3	188.8	67.2	57.5
	199	sedan	rwd	front	104.3	188.8	67.2	56.2
	200	wagon	rwd	front	104.3	188.8	67.2	57.5
##	201	sedan	rwd	front	109.1	188.8	68.9	55.5

##	202	sedan	rwo	d front		109.1	188.8	68.8	55.5
##	203	sedan	rwo	d front		109.1	188.8	68.9	55.5
##	204	sedan	rwo	d front		109.1	188.8	68.9	55.5
##	205	sedan	rwo	d front		109.1	188.8	68.9	55.5
##		curb.weight	engine.type	num.of.cylinders	bore	stroke	compre	ssion.	ratio
##	1	2548	dohc	four	3.47	2.68			9.00
##	2	2548	dohc	four	3.47	2.68			9.00
##	3	2823	ohcv	six	2.68	3.47			9.00
##	4	2337	ohc	four	3.19	3.4			10.00
##	5	2824	ohc	five	3.19	3.4			8.00
##	6	2507	ohc	five	3.19	3.4			8.50
##	7	2844	ohc	five	3.19	3.4			8.50
##	8	2954	ohc	five	3.19	3.4			8.50
##	9	3086	ohc	five	3.13	3.4			8.30
##	10	3053	ohc	five	3.13	3.4			7.00
##	11	2395	ohc	four	3.5	2.8			8.80
##	12	2395	ohc	four	3.5	2.8			8.80
##		2710	ohc	six	3.31	3.19			9.00
##		2765	ohc		3.31	3.19			9.00
##		3055	ohc		3.31	3.19			9.00
##		3230	ohc		3.62	3.39			8.00
##		3380	ohc		3.62	3.39			8.00
##		3505	ohc		3.62	3.39			8.00
##		1488	1	three					9.50
##		1874	ohc		3.03	3.11			9.60
##		1909	ohc		3.03	3.11			9.60
##		1876	ohc		2.97				9.41
##		1876	ohc		2.97	3.23			9.40
##		2128	ohc		3.03	3.39			7.60
##		1967	ohc		2.97				9.40
##		1989	ohc		2.97	3.23			9.40
##		1989	ohc		2.97	3.23			9.40
##		2191	ohc		3.03	3.39			7.60
##		2535	ohc		3.34				8.50
##		2811 1713	ohc ohc		3.6 2.91	3.9			7.00 9.60
## ##		1819	ohc		2.91	3.41 3.41			9.20
##		1813	ohc		2.91	3.41			10.10
##		1940	ohc		2.91	3.41			9.20
##		1956	ohc		2.91	3.41			9.20
##		2010	ohc		2.91	3.41			9.20
##		2024	ohc		2.92	3.41			9.20
##		2236	ohc		3.15	3.58			9.00
##		2289	ohc	four		3.58			9.00
##		2304	ohc		3.15	3.58			9.00
##		2372	ohc		3.15	3.58			9.00
##		2465	ohc	four		3.58			9.00
##		2293	ohc		3.15	3.58			9.10
##		2337	ohc		3.31	3.23			8.50
##		1874	ohc		3.03	3.11			9.60
##		1909	ohc		3.03	3.11			9.60
			- '-			_			-

## 47	2734	ohc	four 3.43	3.23	9.20
## 48	4066	dohc	six 3.63	4.17	8.10
## 49	4066	dohc	six 3.63	4.17	8.10
## 50	3950	ohcv	twelve 3.54	2.76	11.50
## 51	1890	ohc	four 3.03	3.15	9.00
## 52	1900	ohc	four 3.03	3.15	9.00
## 53	1905	ohc	four 3.03	3.15	9.00
## 54	1945	ohc	four 3.03	3.15	9.00
## 55	1950	ohc	four 3.08	3.15	9.00
## 56	2380	rotor	two ?	?	9.40
## 57	2380	rotor	two ?	;	9.40
## 58	2385	rotor	two ?	;	9.40
## 59	2500	rotor	two ?	;	9.40
## 60	2385	ohc	four 3.39	3.39	8.60
## 61	2410	ohc	four 3.39	3.39	8.60
## 62	2385	ohc	four 3.39	3.39	8.60
## 63	2410	ohc	four 3.39	3.39	8.60
## 64	2443	ohc	four 3.39	3.39	22.70
## 65	2425	ohc	four 3.39	3.39	8.60
## 66	2670	ohc	four 3.76	3.16	8.00
## 67	2700	ohc	four 3.43	3.64	22.00
## 68	3515	ohc	five 3.58	3.64	21.50
## 69	3750	ohc	five 3.58	3.64	21.50
## 70	3495	ohc	five 3.58	3.64	21.50
## 71	3770	ohc	five 3.58	3.64	21.50
## 72	3740	ohcv	eight 3.46	3.1	8.30
## 73	3685	ohcv	eight 3.46	3.1	8.30
## 74	3900	ohcv	eight 3.8	3.35	8.00
## 75	3715	ohcv	eight 3.8	3.35	8.00
## 76	2910	ohc	four 3.78	3.12	8.00
## 77	1918	ohc	four 2.97	3.23	9.40
## 78	1944	ohc	four 2.97	3.23	9.40
## 79	2004	ohc	four 2.97	3.23	9.40
## 80	2145	ohc	four 3.03	3.39	7.60
## 81	2370	ohc	four 3.17	3.46	7.50
## 82	2328	ohc	four 3.35	3.46	8.50
## 83	2833	ohc	four 3.58	3.86	7.00
## 84	2921	ohc	four 3.59	3.86	7.00
## 85	2926	ohc	four 3.59	3.86	7.00
## 86	2365	ohc	four 3.35	3.46	8.50
## 87	2405	ohc	four 3.35	3.46	8.50
## 88	2403	ohc	four 3.17	3.46	7.50
## 89	2403	ohc	four 3.17	3.46	7.50
## 90	1889	ohc	four 3.15	3.29	9.40
## 91	2017	ohc	four 2.99	3.47	21.90
## 92	1918	ohc	four 3.15	3.29	9.40
## 93	1938	ohc	four 3.15	3.29	9.40
## 94	2024	ohc	four 3.15	3.29	9.40
## 95	1951	ohc	four 3.15	3.29	9.40
## 96	2028	ohc	four 3.15	3.29	9.40
## 97	1971	ohc	four 3.15	3.29	9.40

## 98	2037	ohc	four 3.15	3.29	9.40
## 99	2008	ohc	four 3.15	3.29	9.40
## 100	2324	ohc	four 3.33	3.47	8.50
## 101	2302	ohc	four 3.33	3.47	8.50
## 102	3095	ohcv	six 3.43	3.27	9.00
## 103	3296	ohcv	six 3.43	3.27	9.00
## 104	3060	ohcv	six 3.43	3.27	9.00
## 105	3071	ohcv	six 3.43	3.27	9.00
## 106	3139	ohcv	six 3.43	3.27	7.80
## 107	3139	ohcv	six 3.43	3.27	9.00
## 108	3020	1	four 3.46	3.19	8.40
## 109	3197	1	four 3.7	3.52	21.00
## 110	3230	1	four 3.46	3.19	8.40
## 111	3430	1	four 3.7	3.52	21.00
## 112	3075	1	four 3.46	2.19	8.40
## 113	3252	1	four 3.7	3.52	21.00
## 114	3285	1	four 3.46	2.19	8.40
## 115	3485	1	four 3.7	3.52	21.00
## 116	3075	1	four 3.46	3.19	8.40
## 117	3252	1	four 3.7	3.52	21.00
## 118	3130	1	four 3.61	3.21	7.00
## 119	1918	ohc	four 2.97	3.23	9.40
## 120	2128	ohc	four 3.03	3.39	7.60
## 121	1967	ohc	four 2.97	3.23	9.40
## 122	1989	ohc	four 2.97	3.23	9.40
## 123	2191	ohc	four 2.97	3.23	9.40
## 124	2535	ohc	four 3.35	3.46	8.50
## 125	2818	ohc	four 3.59	3.86	7.00
## 126	2778	ohc	four 3.94	3.11	9.50
## 127	2756	ohcf	six 3.74	2.9	9.50
## 128	2756	ohcf	six 3.74	2.9	9.50
## 129	2800	ohcf	six 3.74	2.9	9.50
## 130	3366	dohcv	eight 3.94	3.11	10.00
## 131	2579	ohc	four 3.46	3.9	8.70
## 132	2460	ohc	four 3.46	3.9	8.70
## 133	2658	ohc	four 3.54	3.07	9.31
## 134	2695	ohc	four 3.54	3.07	9.30
## 135	2707	ohc	four 2.54	2.07	9.30
## 136	2758	ohc	four 3.54	3.07	9.30
## 137	2808	dohc	four 3.54	3.07	9.00
## 138	2847	dohc	four 3.54	3.07	9.00
## 139	2050	ohcf	four 3.62	2.36	9.00
## 140	2120	ohcf	four 3.62	2.64	8.70
## 141	2240	ohcf	four 3.62	2.64	8.70
## 142	2145	ohcf	four 3.62	2.64	9.50
## 143	2190	ohcf	four 3.62	2.64	9.50
## 144	2340	ohcf	four 3.62	2.64	9.00
## 145	2385	ohcf	four 3.62	2.64	9.00
## 146	2510	ohcf	four 3.62	2.64	7.70
## 147	2290	ohcf	four 3.62	2.64	9.00
## 148	2455	ohcf	four 3.62	2.64	9.00

## 1		ohcf	four 3.62	2.64	9.00
## 1		ohcf	four 3.62	2.64	7.70
## 1		ohc	four 3.05	3.03	9.00
## 1		ohc	four 3.05	3.03	9.00
## 1	153 2015	ohc	four 3.05	3.03	9.00
## 1	154 2280	ohc	four 3.05	3.03	9.00
## 1	155 2290	ohc	four 3.05	3.03	9.00
## 1	156 3110	ohc	four 3.05	3.03	9.00
## 1	157 2081	ohc	four 3.19	3.03	9.00
## 1	158 2109	ohc	four 3.19	3.03	9.00
## 1	159 2275	ohc	four 3.27	3.35	22.50
## 1	160 2275	ohc	four 3.27	3.35	22.50
## 1	161 2094	ohc	four 3.19	3.03	9.00
## 1	162 2122	ohc	four 3.19	3.03	9.00
## 1	163 2140	ohc	four 3.19	3.03	9.00
## 1	164 2169	ohc	four 3.19	3.03	9.00
## 1	165 2204	ohc	four 3.19	3.03	9.00
## 1	166 2265	dohc	four 3.24	3.08	9.40
## 1	167 2300	dohc	four 3.24	3.08	9.40
## 1	168 2540	ohc	four 3.62	3.5	9.30
## 1	169 2536	ohc	four 3.62	3.5	9.30
## 1	170 2551	ohc	four 3.62	3.5	9.30
## 1	171 2679	ohc	four 3.62	3.5	9.30
## 1	172 2714	ohc	four 3.62	3.5	9.30
## 1	173 2975	ohc	four 3.62	3.5	9.30
## 1	174 2326	ohc	four 3.31	3.54	8.70
## 1	175 2480	ohc	four 3.27	3.35	22.50
## 1	176 2414	ohc	four 3.31	3.54	8.70
## 1	177 2414	ohc	four 3.31	3.54	8.70
## 1	178 2458	ohc	four 3.31	3.54	8.70
## 1	179 2976	dohc	six 3.27	3.35	9.30
## 1	180 3016	dohc	six 3.27	3.35	9.30
## 1	181 3131	dohc	six 3.27	3.35	9.20
## 1	182 3151	dohc	six 3.27	3.35	9.20
## 1	183 2261	ohc	four 3.01	3.4	23.00
## 1	184 2209	ohc	four 3.19	3.4	9.00
## 1	185 2264	ohc	four 3.01	3.4	23.00
## 1	186 2212	ohc	four 3.19	3.4	9.00
## 1	187 2275	ohc	four 3.19	3.4	9.00
## 1	188 2319	ohc	four 3.01	3.4	23.00
## 1	189 2300	ohc	four 3.19	3.4	10.00
## 1	190 2254	ohc	four 3.19	3.4	8.50
## 1	191 2221	ohc	four 3.19	3.4	8.50
## 1	192 2661	ohc	five 3.19	3.4	8.50
## 1	193 2579	ohc	four 3.01	3.4	23.00
## 1	194 2563	ohc	four 3.19	3.4	9.00
## 1	195 2912	ohc	four 3.78	3.15	9.50
## 1	196 3034	ohc	four 3.78	3.15	9.50
## 1	197 2935	ohc	four 3.78	3.15	9.50
## 1	198 3042	ohc	four 3.78	3.15	9.50
## 1	199 3045	ohc	four 3.62	3.15	7.50

##	200	3157		ohc	four	3.62	3.15	7	.50
##	201	2952		ohc	four	3.78	3.15	9	.50
##	202	3049		ohc	four	3.78	3.15	8	.70
##	203	3012	c	hcv	six	3.58	2.87	8	.80
##	204	3217		ohc	six	3.01	3.4	23	.00
##	205	3062		ohc	four	3.78	3.15	9	.50
##		horsepower p	eak.rpm	<pre>city.mpg</pre>	highway.mpg	price			
##	1	111	5000	21	27	13495			
##	2	111	5000	21	27	16500			
##	3	154	5000	19	26	16500			
##	4	102	5500	24	30	13950			
##	5	115	5500	18	22	17450			
##	6	110	5500	19	25	15250			
##	7	110	5500	19	25	17710			
##	8	110	5500	19	25	18920			
##	9	140	5500	17	20	23875			
##	10	160	5500	16	22	?			
##	11	101	5800	23	29	16430			
##	12	101	5800	23	29	16925			
##	13	121	4250	21	28	20970			
##	14	121	4250	21	28	21105			
##	15	121	4250	20	25	24565			
##	16	182	5400	16	22	30760			
##	17	182	5400	16	22	41315			
##	18	182	5400	15	20	36880			
##	19	48	5100	47	53	5151			
##	20	70	5400	38	43	6295			
##	21	70	5400	38	43	6575			
##	22	68	5500	37	41	5572			
##	23	68	5500	31	38	6377			
##	24	102	5500	24	30	7957			
##	25	68	5500	31	38	6229			
##	26	68	5500	31	38	6692			
##	27	68	5500	31	38	7609			
##	28	102	5500	24	30	8558			
##		88	5000	24	30	8921			
##		145	5000	19	24	12964			
##	31	58	4800	49	54	6479			
##	32	76	6000	31	38	6855			
##	33	60	5500	38	42	5399			
##		76	6000	30	34	6529			
##		76	6000	30	34	7129			
##		76	6000	30	34	7295			
##		76	6000	30	34	7295			
##		86	5800	27	33	7895			
##		86	5800	27	33	9095			
##		86	5800	27	33	8845			
##		86	5800	27		10295			
##		101	5800	24		12945			
##		100	5500	25		10345			
##	44	78	4800	24	29	6785			

##	45	70	5400	38	43	?
##	46	70	5400	38	43	?
##	47	90	5000	24	29	11048
##	48	176	4750	15	19	32250
##	49	176	4750	15	19	35550
##	50	262	5000	13	17	36000
##	51	68	5000	30	31	5195
##	52	68	5000	31	38	6095
##	53	68	5000	31	38	6795
##	54	68	5000	31	38	6695
##	55	68	5000	31	38	7395
##	56	101	6000	17	23	10945
##	57	101	6000	17	23	11845
##	58	101	6000	17	23	13645
##	59	135	6000	16	23	15645
##	60	84	4800	26	32	8845
##	61	84	4800	26	32	8495
##	62	84	4800	26	32	10595
##	63	84	4800	26	32	10245
##	64	64	4650	36	42	10795
##	65	84	4800	26	32	11245
##	66	120	5000	19	27	18280
##	67	72	4200	31	39	18344
##	68	123	4350	22	25	25552
##	69	123	4350	22	25	28248
##	70	123	4350	22	25	28176
##	71	123	4350	22	25	31600
##	72	155	4750	16	18	34184
##	73	155	4750	16	18	35056
##	74	184	4500	14	16	40960
##	75	184	4500	14	16	45400
##	76	175	5000	19	24	16503
##	77	68	5500	37	41	5389
##	78	68	5500	31	38	6189
##	79	68	5500	31	38	6669
##		102	5500	24	30	7689
	81	116	5500	23	30	
	82	88	5000	25	32	
##		145	5000	19		12629
##		145	5000	19		14869
	85	145	5000	19		14489
##		88	5000	25		6989
	87	88	5000	25	32	
	88	116	5500	23	30	
##		116	5500	23	30	
##		69	5200	31	37	
	91	55	4800	45	50	7099
##		69	5200	31	37	6649
##		69	5200	31	37	6849
	94	69	5200	31	37	
##	95	69	5200	31	37	7299

## 96	69	5200	31	37 7799
## 97	69	5200	31	37 7499
## 98	69	5200	31	37 7999
## 99	69	5200	31	37 8249
## 100	97	5200	27	34 8949
## 101	97	5200	27	34 9549
## 102	152	5200	17	22 13499
## 103	152	5200	17	22 14399
## 104	152	5200	19	25 13499
## 105	160	5200	19	25 17199
## 106	200	5200	17	23 19699
## 107	160	5200	19	25 18399
## 108	97	5000	19	24 11900
## 109	95	4150	28	33 13200
## 110	97	5000	19	24 12440
## 111	95	4150	25	25 13860
## 112	95	5000	19	24 15580
## 113	95	4150	28	33 16900
## 114	95	5000	19	24 16695
## 115	95	4150	25	25 17075
## 116	97	5000	19	24 16630
## 117	95	4150	28	33 17950
## 118	142	5600	18	24 18150
## 119	68	5500	37	41 5572
## 120	102	5500	24	30 7957
## 121	68	5500	31	38 6229
## 122	68	5500	31	38 6692
## 123	68	5500	31	38 7609
## 124	88	5000	24	30 8921
## 125	145	5000	19	24 12764
## 126	143	5500	19	27 22018
## 127	207	5900	17	25 32528
## 128	207	5900	17	25 34028
## 129	207	5900	17	25 37028
## 130	288 ?	5750	17 22	28 ?
## 131	;	?	23 23	31 9295
## 132 ## 133	: 110		23	31 9895 28 11850
## 133	110	5250 5250	21	28 11850
## 135	110	5250	21	28 15040
## 136	110	5250	21	28 15510
## 137	160	5500	19	26 18150
## 138	160	5500	19	26 18620
## 139	69	4900	31	36 5118
## 140	73	4400	26	31 7053
## 141	73	4400	26	31 7603
## 142	82	4800	32	37 7126
## 143	82	4400	28	33 7775
## 144	94	5200	26	32 9960
## 145	82	4800	24	25 9233
## 146	111	4800	24	29 11259
	_			

## 147	82	4800	28	32 7463
## 148	94	5200	25	31 10198
## 149	82	4800	23	29 8013
## 150	111	4800	23	23 11694
## 151	62	4800	35	39 5348
## 152	62	4800	31	38 6338
## 153	62	4800	31	38 6488
## 154	62	4800	31	37 6918
## 155	62	4800	27	32 7898
## 156	62	4800	27	32 8778
## 157	70	4800	30	37 6938
## 158	70	4800	30	37 7198
## 159	56	4500	34	36 7898
## 160	56	4500	38	47 7788
## 161	70	4800	38	47 7738
## 162	70	4800	28	34 8358
## 163	70	4800	28	34 9258
## 164	70	4800	29	34 8058
## 165	70	4800	29	34 8238
## 166	112	6600	26	29 9298
## 167	112	6600	26	29 9538
## 168	116	4800	24	30 8449
## 169	116	4800	24	30 9639
## 170	116	4800	24	30 9989
## 171	116	4800	24	30 11199
## 172	116	4800	24	30 11549
## 173	116	4800	24	30 17669
## 174	92	4200	29	34 8948
## 175	73	4500	30	33 10698
## 176	92	4200	27	32 9988
## 177	92	4200	27	32 10898
## 178	92	4200	27	32 11248
## 179	161	5200	20	24 16558
## 180	161	5200	19	24 15998
## 181	156	5200	20	24 15690
## 182	156	5200	19	24 15750
## 183	52	4800	37	46 7775
## 184	85	5250	27	34 7975
## 185	52	4800	37	46 7995
## 186	85	5250	27	34 8195
## 187	85	5250	27	34 8495
## 188	68	4500	37	42 9495
## 189	100	5500	26	32 9995
## 190	90	5500	24	29 11595
## 191	90	5500	24	29 9980
## 192	110	5500	19	24 13295
## 193	68	4500	33	38 13845
## 194	88	5500	25	31 12290
## 195	114	5400	23	28 12940
## 196	114	5400	23	28 13415
## 197	114	5400	24	28 15985

##	198	114	5400	24	28 16515
##	199	162	5100	17	22 18420
##	200	162	5100	17	22 18950
##	201	114	5400	23	28 16845
##	202	160	5300	19	25 19045
##	203	134	5500	18	23 21485
##	204	106	4800	26	27 22470
##	205	114	5400	19	25 22625

```
#7.Delete the column fuel-system, bore from the dataset by Select function from dplyr library
. (select)
#dataset_selected<-datasets %>% select(-fuel-system,-bore)
#dataset_selected
#8.Show the summary statistics of the dataset (summary)
summary(datasets)
```

```
##
      symboling
                       normalized.losses
                                               make
                                                                fuel.type
           :-2.0000
                      Length: 205
                                          Length: 205
                                                               Length: 205
##
   Min.
##
   1st Qu.: 0.0000
                      Class :character
                                          Class :character
                                                              Class :character
   Median : 1.0000
                      Mode :character
                                          Mode :character
                                                              Mode :character
##
           : 0.8341
##
   Mean
   3rd Qu.: 2.0000
##
##
   Max.
           : 3.0000
##
     aspiration
                        num.of.doors
                                            body.style
                                                                drive.wheels
##
   Length:205
                        Length: 205
                                            Length: 205
                                                                Length:205
##
   Class :character
                        Class :character
                                            Class :character
                                                               Class :character
##
   Mode :character
                        Mode :character
                                           Mode :character
                                                               Mode :character
##
##
##
##
   engine.location
                          wheel.base
                                              length
                                                              width
                                                                  :60.30
##
   Length: 205
                        Min.
                               : 86.60
                                         Min.
                                                 :141.1
                                                          Min.
   Class :character
                        1st Qu.: 94.50
                                         1st Qu.:166.3
                                                          1st Qu.:64.10
##
##
   Mode :character
                        Median : 97.00
                                         Median :173.2
                                                          Median :65.50
                                         Mean
##
                        Mean
                               : 98.76
                                                 :174.0
                                                          Mean
                                                                  :65.91
##
                        3rd Qu.:102.40
                                         3rd Qu.:183.1
                                                          3rd Qu.:66.90
##
                        Max.
                               :120.90
                                         Max.
                                                 :208.1
                                                          Max.
                                                                  :72.30
##
        height
                     curb.weight
                                    engine.type
                                                        num.of.cylinders
##
   Min.
           :47.80
                    Min.
                            :1488
                                    Length:205
                                                        Length: 205
   1st Qu.:52.00
                    1st Qu.:2145
##
                                    Class :character
                                                        Class :character
##
   Median :54.10
                    Median :2414
                                    Mode :character
                                                        Mode :character
##
   Mean
           :53.72
                    Mean
                            :2556
                    3rd Qu.:2935
##
   3rd Qu.:55.50
##
   Max.
           :59.80
                    Max.
                            :4066
##
     engine.size
                    fuel.system
                                             bore
                                                                stroke
                                        Length: 205
##
   Min.
           : 61.0
                    Length: 205
                                                            Length: 205
   1st Qu.: 97.0
                    Class :character
                                        Class :character
                                                            Class :character
##
   Median :120.0
##
                    Mode :character
                                        Mode :character
                                                            Mode :character
           :126.9
##
   Mean
##
   3rd Qu.:141.0
##
           :326.0
   Max.
##
   compression.ratio horsepower
                                             peak.rpm
                                                                  city.mpg
##
   Min.
           : 7.00
                      Length:205
                                          Length: 205
                                                              Min.
                                                                      :13.00
##
   1st Qu.: 8.60
                       Class :character
                                          Class :character
                                                              1st Qu.:19.00
##
   Median: 9.00
                      Mode :character
                                          Mode :character
                                                              Median :24.00
           :10.14
                                                              Mean
                                                                      :25.22
##
   Mean
##
   3rd Qu.: 9.40
                                                              3rd Qu.:30.00
##
   Max.
           :23.00
                                                              Max.
                                                                      :49.00
                        price
##
     highway.mpg
           :16.00
                    Length: 205
##
   Min.
##
   1st Qu.:25.00
                    Class :character
   Median :30.00
##
                    Mode :character
##
   Mean
           :30.75
##
   3rd Qu.:34.00
##
   Max.
           :54.00
```

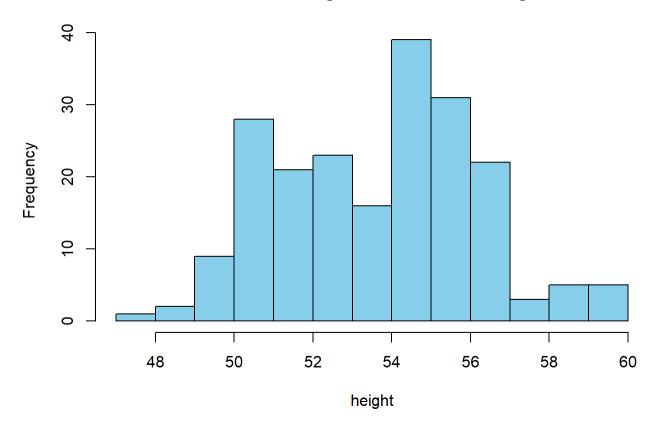
```
#9.#Data Cleaning -
#Find out the number of values that are not numeric in 'Price', 'horsepower', and 'normalize
d-Losses'
#Setting the missing value to the mean of price and converting the datatype to a numeric
non_numeric_price<- sum(!is.numeric(datasets$price))</pre>
non_numeric_price
## [1] 1
non_numeric_horsepower<- sum(!is.numeric(datasets$horsepower))</pre>
non_numeric_horsepower
## [1] 1
non_numeric_normalized<- sum(!is.numeric(datasets$`normalized-losses`))</pre>
non_numeric_normalized
## [1] 1
datasets$price<-as.numeric(datasets$price)</pre>
## Warning: NAs introduced by coercion
mean_price<-mean(datasets$price,na.rm=TRUE)</pre>
datasets$price[is.na(datasets$price)]<-mean_price</pre>
mean_price
## [1] 13207.13
#10.Compute the measure of the central tendency of the height column (mean, median, mode)
mean_height<-mean(datasets$height,na.rm=TRUE)</pre>
mean_height
## [1] 53.72488
median_height<-median(datasets$height,na.rm = TRUE)</pre>
median_height
## [1] 54.1
```

```
get_mode<-function(v){</pre>
  uniq_vals<-unique(v)</pre>
  uniq_vals[which.max(tabulate(match(v,uniq_vals)))]
}
mode_height<-get_mode(datasets$height)</pre>
mode_height
## [1] 50.8
#11.Compute the measure of dispersion of the height column (Standard Deviation, Variance
sd_height<-sd(datasets$height,na.rm=TRUE)</pre>
sd height
## [1] 2.443522
var_height<-var(datasets$height,na.rm=TRUE)</pre>
var_height
## [1] 5.9708
#12.Compute the quartile ranges and IQR of the height column.
quartiles_height<-quantile(datasets$height,probs=c(0.25,0.5,0.75),na.rm=TRUE)
quartiles_height
## 25% 50% 75%
## 52.0 54.1 55.5
IQR_height<-IQR(datasets$height,na.rm=TRUE)</pre>
IQR_height
## [1] 3.5
#13.Calculate the correlation between the price and horsepower. (cor)
datasets$horsepower<-as.numeric(datasets$horsepower)</pre>
## Warning: NAs introduced by coercion
datasets$price<-as.numeric(datasets$price)</pre>
correlation<-cor(datasets$price,datasets$horsepower,use="complete.obs")
correlation
```

[1] 0.7587142

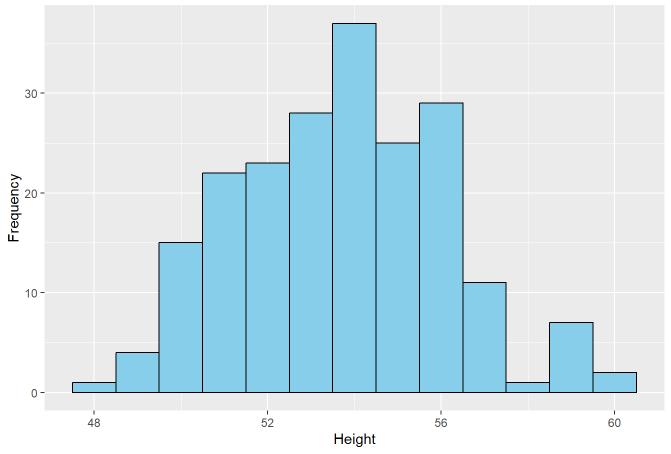
```
#14.Univariate Analysis (For all plot methods include Label and Main title - All title should
be your Rno. followed by title eg. 23BDS0001 - Price distribution plot)
#Distribution plot: histogram for height (hist and ggplot)
#Distribution plot histogram for price (hist and ggplot)
#Distribution plot density for price (density, ggplot)
#Distribution plot hist and density for price (hist, lines(density), ggplot)
#Box plot for price (boxplot, ggplot)
hist(datasets$height,main = "22BCE0476 -Height Distribution histogram",xlab="height",ylab =
"Frequency",col="skyblue",border="black")
```

22BCE0476 -Height Distribution histogram



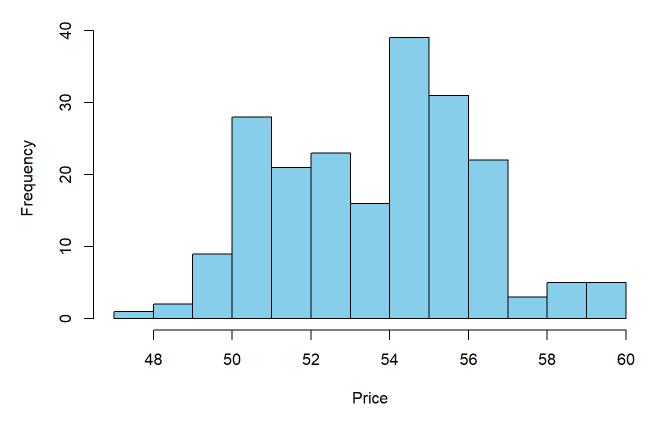
 $\label{lem:ggplot} $$ \gcd(x=height)) + \gcd(x=height)) + \gcd(x=height) + \gcd(x=$





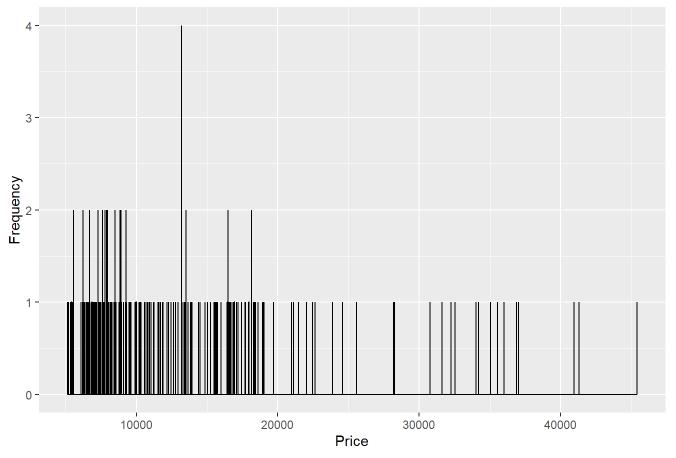
hist(datasets\$height,main = "22BCE0476 -Price Distribution histogram",xlab="Price",ylab = "Fr
equency",col="skyblue",border="black")

22BCE0476 -Price Distribution histogram



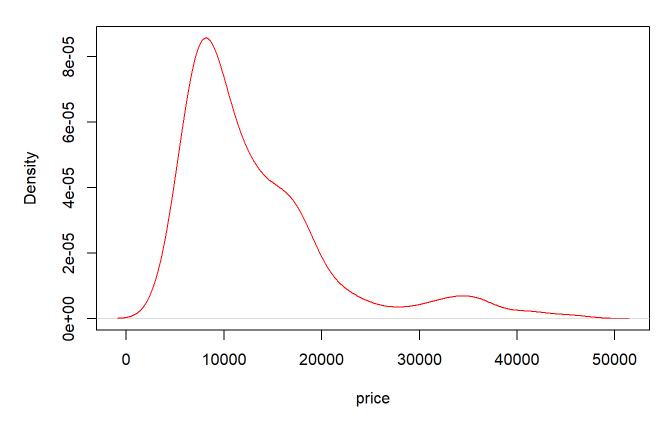
ggplot(datasets,aes(x=price))+geom_histogram(binwidth=1,fill="skyblue",color="black")+labs(ti tle="22BCE0476 -Price Distribution Histogram",x="Price",y="Frequency")

22BCE0476 -Price Distribution Histogram



plot(density(datasets\$price,na.rm=TRUE),main="22BCE0476 -price density plot",xlab="price",yla
b="Density",col="red")

22BCE0476 -price density plot



 $ggplot(datasets, aes(x=price)) + geom_density(fill='red', alpha=0.5) + labs(title = "22bce0476 - price density plot", x="Price", y="Density")$

