

```
import pandas as pd
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```
mpg=pd.read_csv(r'https://github.com/YBI-Foundation/Dataset/raw/main/MPG.csv')

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mpg
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	mpg	cylinders	displacement	horsepower	weight	
0	18.0	8	307.0	130.0	3504	12.0
1	15.0	8	350.0	165.0	3693	11.5
2	18.0	8	318.0	150.0	3436	11.0
3	16.0	8	304.0	150.0	3433	12.0
4	17.0	8	302.0	140.0	3449	10.5
5	15.0	8	429.0	198.0	4341	10.0
6	14.0	8	454.0	220.0	4354	9.0
7	14.0	8	440.0	215.0	4312	8.5
8	14.0	8	455.0	225.0	4425	10.0
9	15.0	8	390.0	190.0	3850	8.5
10	15.0	8	383.0	170.0	3563	10.0
11	14.0	8	340.0	160.0	3609	8.0
12	15.0	8	400.0	150.0	3761	9.5
13	14.0	8	455.0	225.0	3086	10.0
14	24.0	4	113.0	95.0	2372	15.0
15	22.0	6	198.0	95.0	2833	15.5
16	18.0	6	199.0	97.0	2774	15.5
17	21.0	6	200.0	85.0	2587	16.0
18	27.0	4	97.0	88.0	2130	14.5
19	26.0	4	97.0	46.0	1835	20.5

20	25.0	4	110.0	87.0	2672	17.5
21	24.0	4	107.0	90.0	2430	14.5
22	25.0	4	104.0	95.0	2375	17.5
23	26.0	4	121.0	113.0	2234	12.5
24	21.0	6	199.0	90.0	2648	15.0
25	10.0	8	360.0	215.0	4615	14.0
26	10.0	8	307.0	200.0	4376	15.0
27	11.0	8	318.0	210.0	4382	13.5
28	9.0	8	304.0	193.0	4732	18.5
29	27.0	4	97.0	88.0	2130	14.5
30	28.0	4	140.0	90.0	2264	15.5
31	25.0	4	113.0	95.0	2228	14.0
32	25.0	4	98.0	NaN	2046	19.0
33	19.0	6	232.0	100.0	2634	13.0
34	16.0	6	225.0	105.0	3439	15.5
35	17.0	6	250.0	100.0	3329	15.5
36	19.0	6	250.0	88.0	3302	15.5
37	18.0	6	232.0	100.0	3288	15.5
38	14.0	8	350.0	165.0	4209	12.0
39	14.0	8	400.0	175.0	4464	11.5
40	14.0	8	351.0	153.0	4154	13.5
41	14.0	8	318.0	150.0	4096	13.0
42	12.0	8	383.0	180.0	4955	11.5
43	13.0	8	400.0	170.0	4746	12.0

44	13.0	8	400.0	175.0	5140	12.0
45	18.0	6	258.0	110.0	2962	13.5
46	22.0	4	140.0	72.0	2408	19.0
47	19.0	6	250.0	100.0	3282	15.0
48	18.0	6	250.0	88.0	3139	14.5
49	23.0	4	122.0	86.0	2220	14.0
50	28.0	4	116.0	90.0	2123	14.0
51	30.0	4	79.0	70.0	2074	19.5
52	30.0	4	88.0	76.0	2065	14.5
53	31.0	4	71.0	65.0	1773	19.0
54	35.0	4	72.0	69.0	1613	18.0
55	27.0	4	97.0	60.0	1834	19.0
56	26.0	4	91.0	70.0	1955	20.5
57	24.0	4	113.0	95.0	2278	15.5
58	25.0	4	97.5	80.0	2126	17.0
59	23.0	4	97.0	54.0	2254	23.5
60	20.0	4	140.0	90.0	2408	19.5
61	21.0	4	122.0	86.0	2226	16.5
62	13.0	8	350.0	165.0	4274	12.0
63	14.0	8	400.0	175.0	4385	12.0
64	15.0	8	318.0	150.0	4135	13.5
65	14.0	8	351.0	153.0	4129	13.0
66	17.0	8	304.0	150.0	3672	11.5
67	11.0	8	429.0	208.0	4633	11.0

68	13.0	8	350.0	155.0	4502	13.5
69	12.0	8	350.0	160.0	4456	13.5
70	13.0	8	400.0	190.0	4422	12.5
71	19.0	3	70.0	97.0	2330	13.5
72	15.0	8	304.0	150.0	3892	12.5
73	13.0	8	307.0	130.0	4098	14.0
74	13.0	8	302.0	140.0	4294	16.0
75	14.0	8	318.0	150.0	4077	14.0
76	18.0	4	121.0	112.0	2933	14.5
77	22.0	4	121.0	76.0	2511	18.0
78	21.0	4	120.0	87.0	2979	19.5
79	26.0	4	96.0	69.0	2189	18.0
80	22.0	4	122.0	86.0	2395	16.0
81	28.0	4	97.0	92.0	2288	17.0
82	23.0	4	120.0	97.0	2506	14.5
83	28.0	4	98.0	80.0	2164	15.0
84	27.0	4	97.0	88.0	2100	16.5
85	13.0	8	350.0	175.0	4100	13.0
86	14.0	8	304.0	150.0	3672	11.5
87	13.0	8	350.0	145.0	3988	13.0
88	14.0	8	302.0	137.0	4042	14.5
89	15.0	8	318.0	150.0	3777	12.5
90	12.0	8	429.0	198.0	4952	11.5
91	13.0	8	400.0	150.0	4464	12.0

92	13.0	8	351.0	158.0	4363	13.0
93	14.0	8	318.0	150.0	4237	14.5
94	13.0	8	440.0	215.0	4735	11.0
95	12.0	8	455.0	225.0	4951	11.0
96	13.0	8	360.0	175.0	3821	11.0
97	18.0	6	225.0	105.0	3121	16.5
98	16.0	6	250.0	100.0	3278	18.0
99	18.0	6	232.0	100.0	2945	16.0
100	18.0	6	250.0	88.0	3021	16.5
101	23.0	6	198.0	95.0	2904	16.0
102	26.0	4	97.0	46.0	1950	21.0
103	11.0	8	400.0	150.0	4997	14.0
104	12.0	8	400.0	167.0	4906	12.5
105	13.0	8	360.0	170.0	4654	13.0
106	12.0	8	350.0	180.0	4499	12.5
107	18.0	6	232.0	100.0	2789	15.0
108	20.0	4	97.0	88.0	2279	19.0
109	21.0	4	140.0	72.0	2401	19.5
110	22.0	4	108.0	94.0	2379	16.5
111	18.0	3	70.0	90.0	2124	13.5
112	19.0	4	122.0	85.0	2310	18.5
113	21.0	6	155.0	107.0	2472	14.0
114	26.0	4	98.0	90.0	2265	15.5
115	15.0	8	350.0	145.0	4082	13.0

116	16.0	8	400.0	230.0	4278	9.5
117	29.0	4	68.0	49.0	1867	19.5
118	24.0	4	116.0	75.0	2158	15.5
119	20.0	4	114.0	91.0	2582	14.0
120	19.0	4	121.0	112.0	2868	15.5
121	15.0	8	318.0	150.0	3399	11.0
122	24.0	4	121.0	110.0	2660	14.0
123	20.0	6	156.0	122.0	2807	13.5
124	11.0	8	350.0	180.0	3664	11.0
125	20.0	6	198.0	95.0	3102	16.5
126	21.0	6	200.0	NaN	2875	17.0
127	19.0	6	232.0	100.0	2901	16.0
128	15.0	6	250.0	100.0	3336	17.0
129	31.0	4	79.0	67.0	1950	19.0
130	26.0	4	122.0	80.0	2451	16.5
131	32.0	4	71.0	65.0	1836	21.0
132	25.0	4	140.0	75.0	2542	17.0
133	16.0	6	250.0	100.0	3781	17.0
134	16.0	6	258.0	110.0	3632	18.0
135	18.0	6	225.0	105.0	3613	16.5
136	16.0	8	302.0	140.0	4141	14.0
137	13.0	8	350.0	150.0	4699	14.5
138	14.0	8	318.0	150.0	4457	13.5
139	14.0	8	302.0	140.0	4638	16.0

140	14.0	8	304.0	150.0	4257	15.5
141	29.0	4	98.0	83.0	2219	16.5
142	26.0	4	79.0	67.0	1963	15.5
143	26.0	4	97.0	78.0	2300	14.5
144	31.0	4	76.0	52.0	1649	16.5
145	32.0	4	83.0	61.0	2003	19.0
146	28.0	4	90.0	75.0	2125	14.5
147	24.0	4	90.0	75.0	2108	15.5
148	26.0	4	116.0	75.0	2246	14.0
149	24.0	4	120.0	97.0	2489	15.0
150	26.0	4	108.0	93.0	2391	15.5
151	31.0	4	79.0	67.0	2000	16.0
152	19.0	6	225.0	95.0	3264	16.0
153	18.0	6	250.0	105.0	3459	16.0
154	15.0	6	250.0	72.0	3432	21.0
155	15.0	6	250.0	72.0	3158	19.5
156	16.0	8	400.0	170.0	4668	11.5
157	15.0	8	350.0	145.0	4440	14.0
158	16.0	8	318.0	150.0	4498	14.5
159	14.0	8	351.0	148.0	4657	13.5
160	17.0	6	231.0	110.0	3907	21.0
161	16.0	6	250.0	105.0	3897	18.5
162	15.0	6	258.0	110.0	3730	19.0
163	18.0	6	225.0	95.0	3785	19.0

164	21.0	6	231.0	110.0	3039	15.0
165	20.0	8	262.0	110.0	3221	13.5
166	13.0	8	302.0	129.0	3169	12.0
167	29.0	4	97.0	75.0	2171	16.0
168	23.0	4	140.0	83.0	2639	17.0
169	20.0	6	232.0	100.0	2914	16.0
170	23.0	4	140.0	78.0	2592	18.5
171	24.0	4	134.0	96.0	2702	13.5
172	25.0	4	90.0	71.0	2223	16.5
173	24.0	4	119.0	97.0	2545	17.0
174	18.0	6	171.0	97.0	2984	14.5
175	29.0	4	90.0	70.0	1937	14.0
176	19.0	6	232.0	90.0	3211	17.0
177	23.0	4	115.0	95.0	2694	15.0
178	23.0	4	120.0	88.0	2957	17.0
179	22.0	4	121.0	98.0	2945	14.5
180	25.0	4	121.0	115.0	2671	13.5
181	33.0	4	91.0	53.0	1795	17.5
182	28.0	4	107.0	86.0	2464	15.5
183	25.0	4	116.0	81.0	2220	16.9
184	25.0	4	140.0	92.0	2572	14.9
185	26.0	4	98.0	79.0	2255	17.7
186	27.0	4	101.0	83.0	2202	15.3
187	17.5	8	305.0	140.0	4215	13.0

188	16.0	8	318.0	150.0	4190	13.0
189	15.5	8	304.0	120.0	3962	13.9
190	14.5	8	351.0	152.0	4215	12.8
191	22.0	6	225.0	100.0	3233	15.4
192	22.0	6	250.0	105.0	3353	14.5
193	24.0	6	200.0	81.0	3012	17.6
194	22.5	6	232.0	90.0	3085	17.6
195	29.0	4	85.0	52.0	2035	22.2
196	24.5	4	98.0	60.0	2164	22.1
197	29.0	4	90.0	70.0	1937	14.2
198	33.0	4	91.0	53.0	1795	17.4
199	20.0	6	225.0	100.0	3651	17.7
200	18.0	6	250.0	78.0	3574	21.0
201	18.5	6	250.0	110.0	3645	16.2
202	17.5	6	258.0	95.0	3193	17.8
203	29.5	4	97.0	71.0	1825	12.2
204	32.0	4	85.0	70.0	1990	17.0
205	28.0	4	97.0	75.0	2155	16.4
206	26.5	4	140.0	72.0	2565	13.6
207	20.0	4	130.0	102.0	3150	15.7
208	13.0	8	318.0	150.0	3940	13.2
209	19.0	4	120.0	88.0	3270	21.9
210	19.0	6	156.0	108.0	2930	15.5
211	16.5	6	168.0	120.0	3820	16.7

212	16.5	8	350.0	180.0	4380	12.1
213	13.0	8	350.0	145.0	4055	12.0
214	13.0	8	302.0	130.0	3870	15.0
215	13.0	8	318.0	150.0	3755	14.0
216	31.5	4	98.0	68.0	2045	18.5
217	30.0	4	111.0	80.0	2155	14.8
218	36.0	4	79.0	58.0	1825	18.6
219	25.5	4	122.0	96.0	2300	15.5
220	33.5	4	85.0	70.0	1945	16.8
221	17.5	8	305.0	145.0	3880	12.5
222	17.0	8	260.0	110.0	4060	19.0
223	15.5	8	318.0	145.0	4140	13.7
224	15.0	8	302.0	130.0	4295	14.9
225	17.5	6	250.0	110.0	3520	16.4
226	20.5	6	231.0	105.0	3425	16.9
227	19.0	6	225.0	100.0	3630	17.7
228	18.5	6	250.0	98.0	3525	19.0
229	16.0	8	400.0	180.0	4220	11.1
230	15.5	8	350.0	170.0	4165	11.4
231	15.5	8	400.0	190.0	4325	12.2
232	16.0	8	351.0	149.0	4335	14.5
233	29.0	4	97.0	78.0	1940	14.5
234	24.5	4	151.0	88.0	2740	16.0
235	26.0	4	97.0	75.0	2265	18.2

236	25.5	4	140.0	89.0	2755	15.8
237	30.5	4	98.0	63.0	2051	17.0
238	33.5	4	98.0	83.0	2075	15.9
239	30.0	4	97.0	67.0	1985	16.4
240	30.5	4	97.0	78.0	2190	14.1
241	22.0	6	146.0	97.0	2815	14.5
242	21.5	4	121.0	110.0	2600	12.8
243	21.5	3	80.0	110.0	2720	13.5
244	43.1	4	90.0	48.0	1985	21.5
245	36.1	4	98.0	66.0	1800	14.4
246	32.8	4	78.0	52.0	1985	19.4
247	39.4	4	85.0	70.0	2070	18.6
248	36.1	4	91.0	60.0	1800	16.4
249	19.9	8	260.0	110.0	3365	15.5
250	19.4	8	318.0	140.0	3735	13.2
251	20.2	8	302.0	139.0	3570	12.8
252	19.2	6	231.0	105.0	3535	19.2
253	20.5	6	200.0	95.0	3155	18.2
254	20.2	6	200.0	85.0	2965	15.8
255	25.1	4	140.0	88.0	2720	15.4
256	20.5	6	225.0	100.0	3430	17.2
257	19.4	6	232.0	90.0	3210	17.2
258	20.6	6	231.0	105.0	3380	15.8
259	20.8	6	200.0	85.0	3070	16.7

260	18.6	6	225.0	110.0	3620	18.7
261	18.1	6	258.0	120.0	3410	15.1
262	19.2	8	305.0	145.0	3425	13.2
263	17.7	6	231.0	165.0	3445	13.4
264	18.1	8	302.0	139.0	3205	11.2
265	17.5	8	318.0	140.0	4080	13.7
266	30.0	4	98.0	68.0	2155	16.5
267	27.5	4	134.0	95.0	2560	14.2
268	27.2	4	119.0	97.0	2300	14.7
269	30.9	4	105.0	75.0	2230	14.5
270	21.1	4	134.0	95.0	2515	14.8
271	23.2	4	156.0	105.0	2745	16.7
272	23.8	4	151.0	85.0	2855	17.6
273	23.9	4	119.0	97.0	2405	14.9
274	20.3	5	131.0	103.0	2830	15.9
275	17.0	6	163.0	125.0	3140	13.6
276	21.6	4	121.0	115.0	2795	15.7
277	16.2	6	163.0	133.0	3410	15.8
278	31.5	4	89.0	71.0	1990	14.9
279	29.5	4	98.0	68.0	2135	16.6
280	21.5	6	231.0	115.0	3245	15.4
281	19.8	6	200.0	85.0	2990	18.2
282	22.3	4	140.0	88.0	2890	17.3
283	20.2	6	232.0	90.0	3265	18.2

284	20.6	6	225.0	110.0	3360	16.6
285	17.0	8	305.0	130.0	3840	15.4
286	17.6	8	302.0	129.0	3725	13.4
287	16.5	8	351.0	138.0	3955	13.2
288	18.2	8	318.0	135.0	3830	15.2
289	16.9	8	350.0	155.0	4360	14.9
290	15.5	8	351.0	142.0	4054	14.3
291	19.2	8	267.0	125.0	3605	15.0
292	18.5	8	360.0	150.0	3940	13.0
293	31.9	4	89.0	71.0	1925	14.0
294	34.1	4	86.0	65.0	1975	15.2
295	35.7	4	98.0	80.0	1915	14.4
296	27.4	4	121.0	80.0	2670	15.0
297	25.4	5	183.0	77.0	3530	20.1
298	23.0	8	350.0	125.0	3900	17.4
299	27.2	4	141.0	71.0	3190	24.8
300	23.9	8	260.0	90.0	3420	22.2
301	34.2	4	105.0	70.0	2200	13.2
302	34.5	4	105.0	70.0	2150	14.9
303	31.8	4	85.0	65.0	2020	19.2
304	37.3	4	91.0	69.0	2130	14.7
305	28.4	4	151.0	90.0	2670	16.0
306	28.8	6	173.0	115.0	2595	11.3
307	26.8	6	173.0	115.0	2700	12.9

308	33.5	4	151.0	90.0	2556	13.2
309	41.5	4	98.0	76.0	2144	14.7
310	38.1	4	89.0	60.0	1968	18.8
311	32.1	4	98.0	70.0	2120	15.5
312	37.2	4	86.0	65.0	2019	16.4
313	28.0	4	151.0	90.0	2678	16.5
314	26.4	4	140.0	88.0	2870	18.1
315	24.3	4	151.0	90.0	3003	20.1
316	19.1	6	225.0	90.0	3381	18.7
317	34.3	4	97.0	78.0	2188	15.8
318	29.8	4	134.0	90.0	2711	15.5
319	31.3	4	120.0	75.0	2542	17.5
320	37.0	4	119.0	92.0	2434	15.0
321	32.2	4	108.0	75.0	2265	15.2
322	46.6	4	86.0	65.0	2110	17.9
323	27.9	4	156.0	105.0	2800	14.4
324	40.8	4	85.0	65.0	2110	19.2
325	44.3	4	90.0	48.0	2085	21.7
326	43.4	4	90.0	48.0	2335	23.7
327	36.4	5	121.0	67.0	2950	19.9
328	30.0	4	146.0	67.0	3250	21.8
329	44.6	4	91.0	67.0	1850	13.8
330	40.9	4	85.0	NaN	1835	17.3
331	33.8	4	97.0	67.0	2145	18.0

332	29.8	4	89.0	62.0	1845	15.3
333	32.7	6	168.0	132.0	2910	11.4
334	23.7	3	70.0	100.0	2420	12.5
335	35.0	4	122.0	88.0	2500	15.1
336	23.6	4	140.0	NaN	2905	14.3
337	32.4	4	107.0	72.0	2290	17.0
338	27.2	4	135.0	84.0	2490	15.7
339	26.6	4	151.0	84.0	2635	16.4
340	25.8	4	156.0	92.0	2620	14.4
341	23.5	6	173.0	110.0	2725	12.6
342	30.0	4	135.0	84.0	2385	12.9
343	39.1	4	79.0	58.0	1755	16.9
344	39.0	4	86.0	64.0	1875	16.4
345	35.1	4	81.0	60.0	1760	16.1
346	32.3	4	97.0	67.0	2065	17.8
347	37.0	4	85.0	65.0	1975	19.4
348	37.7	4	89.0	62.0	2050	17.3
349	34.1	4	91.0	68.0	1985	16.0
350	34.7	4	105.0	63.0	2215	14.9
351	34.4	4	98.0	65.0	2045	16.2
352	29.9	4	98.0	65.0	2380	20.7
353	33.0	4	105.0	74.0	2190	14.2
354	34.5	4	100.0	NaN	2320	15.8
355	33.7	4	107.0	75.0	2210	14.4

356	32.4	4	108.0	75.0	2350	16.8
357	32.9	4	119.0	100.0	2615	14.8
358	31.6	4	120.0	74.0	2635	18.3
359	28.1	4	141.0	80.0	3230	20.4
360	30.7	6	145.0	76.0	3160	19.6
361	25.4	6	168.0	116.0	2900	12.6
362	24.2	6	146.0	120.0	2930	13.8
363	22.4	6	231.0	110.0	3415	15.8
364	26.6	8	350.0	105.0	3725	19.0
365	20.2	6	200.0	88.0	3060	17.1
366	17.6	6	225.0	85.0	3465	16.6
367	28.0	4	112.0	88.0	2605	19.6
368	27.0	4	112.0	88.0	2640	18.6
369	34.0	4	112.0	88.0	2395	18.0
370	31.0	4	112.0	85.0	2575	16.2
371	29.0	4	135.0	84.0	2525	16.0
372	27.0	4	151.0	90.0	2735	18.0
373	24.0	4	140.0	92.0	2865	16.4
374	23.0	4	151.0	NaN	3035	20.5
375	36.0	4	105.0	74.0	1980	15.3
376	37.0	4	91.0	68.0	2025	18.2
377	31.0	4	91.0	68.0	1970	17.6
378	38.0	4	105.0	63.0	2125	14.7
379	36.0	4	98.0	70.0	2125	17.3

380	36.0	4	120.0	88.0	2160	14.5
381	36.0	4	107.0	75.0	2205	14.5
382	34.0	4	108.0	70.0	2245	16.9
383	38.0	4	91.0	67.0	1965	15.0
384	32.0	4	91.0	67.0	1965	15.7
385	38.0	4	91.0	67.0	1995	16.2
386	25.0	6	181.0	110.0	2945	16.4
387	38.0	6	262.0	85.0	3015	17.0
388	26.0	4	156.0	92.0	2585	14.5
389	22.0	6	232.0	112.0	2835	14.7
390	32.0	4	144.0	96.0	2665	13.9
391	36.0	4	135.0	84.0	2370	13.0
392	27.0	4	151.0	90.0	2950	17.3
393	27.0	4	140.0	86.0	2790	15.6
394	44.0	4	97.0	52.0	2130	24.6
395	32.0	4	135.0	84.0	2295	11.6
396	28.0	4	120.0	79.0	2625	18.6
397	31.0	4	119.0	82.0	2720	19.4

	model_year	origin	name
0	70	usa	chevrolet chevelle malibu
1	70	usa	buick skylark 320
2	70	usa	plymouth satellite
3	70	usa	amc rebel sst
4	70	usa	ford torino
5	70	usa	ford galaxie 500
6	70	usa	chevrolet impala
7	70	usa	plymouth fury iii
8	70	usa	pontiac catalina
9	70	usa	amc ambassador dpl

10	70	usa	dodge challenger se
11	70	usa	plymouth 'cuda 340
12	70	usa	chevrolet monte carlo
13	70	usa	buick estate wagon (sw)
14	70	japan	toyota corona mark ii
15	70	usa	plymouth duster
16	70	usa	amc hornet
17	70	usa	ford maverick
18	70	japan	datsum pl510
19	70	europe	volkswagen 1131 deluxe sedan
20	70	europe	peugeot 504
21	70	europe	audi 100 ls
22	70	europe	saab 99e
23	70	europe	bmw 2002
24	70	usa	amc gremlin
25	70	usa	ford f250
26	70	usa	chevy c20
27	70	usa	dodge d200
28	70	usa	hi 1200d
29	71	japan	datsum pl510
30	71	usa	chevrolet vega 2300
31	71	japan	toyota corona
32	71	usa	ford pinto
33	71	usa	amc gremlin
34	71	usa	plymouth satellite custom
35	71	usa	chevrolet chevelle malibu
36	71	usa	ford torino 500
37	71	usa	amc matador
38	71	usa	chevrolet impala
39	71	usa	pontiac catalina brougham
40	71	usa	ford galaxie 500
41	71	usa	plymouth fury iii
42	71	usa	dodge monaco (sw)
43	71	usa	ford country squire (sw)
44	71	usa	pontiac safari (sw)
45	71	usa	amc hornet sportabout (sw)
46	71	usa	chevrolet vega (sw)
47	71	usa	pontiac firebird
48	71	usa	ford mustang
49	71	usa	mercury capri 2000
50	71	europe	opel 1900
51	71	europe	peugeot 304
52	71	europe	fiat 124b
53	71	japan	toyota corolla 1200
54	71	japan	datsum 1200
55	71	europe	volkswagen model 111
56	71	usa	plymouth cricket
57	72	japan	toyota corona hardtop
58	72	usa	dodge colt hardtop
59	72	europe	volkswagen type 3

60	72	usa	chevrolet vega
61	72	usa	ford pinto runabout
62	72	usa	chevrolet impala
63	72	usa	pontiac catalina
64	72	usa	plymouth fury iii
65	72	usa	ford galaxie 500
66	72	usa	amc ambassador sst
67	72	usa	mercury marquis
68	72	usa	buick lesabre custom
69	72	usa	oldsmobile delta 88 royale
70	72	usa	chrysler newport royal
71	72	japan	mazda rx2 coupe
72	72	usa	amc matador (sw)
73	72	usa	chevrolet chevelle concours (sw)
74	72	usa	ford gran torino (sw)
75	72	usa	plymouth satellite custom (sw)
76	72	europe	volvo 145e (sw)
77	72	europe	volkswagen 411 (sw)
78	72	europe	peugeot 504 (sw)
79	72	europe	renault 12 (sw)
80	72	usa	ford pinto (sw)
81	72	japan	datsum 510 (sw)
82	72	japan	toyouta corona mark ii (sw)
83	72	usa	dodge colt (sw)
84	72	japan	toyota corolla 1600 (sw)
85	73	usa	buick century 350
86	73	usa	amc matador
87	73	usa	chevrolet malibu
88	73	usa	ford gran torino
89	73	usa	dodge coronet custom
90	73	usa	mercury marquis brougham
91	73	usa	chevrolet caprice classic
92	73	usa	ford ltd
93	73	usa	plymouth fury gran sedan
94	73	usa	chrysler new yorker brougham
95	73	usa	buick electra 225 custom
96	73	usa	amc ambassador brougham
97	73	usa	plymouth valiant
98	73	usa	chevrolet nova custom
99	73	usa	amc hornet
100	73	usa	ford maverick
101	73	usa	plymouth duster
102	73	europe	volkswagen super beetle
103	73	usa	chevrolet impala
104	73	usa	ford country
105	73	usa	plymouth custom suburb
106	73	usa	oldsmobile vista cruiser
107	73	usa	amc gremlin
108	73	japan	toyota carina
109	73	usa	chevrolet vega

110	73	japan	datsum 610
111	73	japan	maxda rx3
112	73	usa	ford pinto
113	73	usa	mercury capri v6
114	73	europe	fiat 124 sport coupe
115	73	usa	chevrolet monte carlo s
116	73	usa	pontiac grand prix
117	73	europe	fiat 128
118	73	europe	opel manta
119	73	europe	audi 100ls
120	73	europe	volvo 144ea
121	73	usa	dodge dart custom
122	73	europe	saab 99le
123	73	japan	toyota mark ii
124	73	usa	oldsmobile omega
125	74	usa	plymouth duster
126	74	usa	ford maverick
127	74	usa	amc hornet
128	74	usa	chevrolet nova
129	74	japan	datsum b210
130	74	usa	ford pinto
131	74	japan	toyota corolla 1200
132	74	usa	chevrolet vega
133	74	usa	chevrolet chevelle malibu classic
134	74	usa	amc matador
135	74	usa	plymouth satelllite sebring
136	74	usa	ford gran torino
137	74	usa	buick century luxus (sw)
138	74	usa	dodge coronet custom (sw)
139	74	usa	ford gran torino (sw)
140	74	usa	amc matador (sw)
141	74	europe	audi fox
142	74	europe	volkswagen dasher
143	74	europe	opel manta
144	74	japan	toyota corona
145	74	japan	datsum 710
146	74	usa	dodge colt
147	74	europe	fiat 128
148	74	europe	fiat 124 tc
149	74	japan	honda civic
150	74	japan	subaru
151	74	europe	fiat xl9
152	75	usa	plymouth valiant custom
153	75	usa	chevrolet nova
154	75	usa	mercury monarch
155	75	usa	ford maverick
156	75	usa	pontiac catalina
157	75	usa	chevrolet bel air
158	75	usa	plymouth grand fury
159	75	usa	ford ltd

160	75	usa	buick century
161	75	usa	chevroelt chevelle malibu
162	75	usa	amc matador
163	75	usa	plymouth fury
164	75	usa	buick skyhawk
165	75	usa	chevrolet monza 2+2
166	75	usa	ford mustang ii
167	75	japan	toyota corolla
168	75	usa	ford pinto
169	75	usa	amc gremlin
170	75	usa	pontiac astro
171	75	japan	toyota corona
172	75	europe	volkswagen dasher
173	75	japan	datsum 710
174	75	usa	ford pinto
175	75	europe	volkswagen rabbit
176	75	usa	amc pacer
177	75	europe	audi 100ls
178	75	europe	peugeot 504
179	75	europe	volvo 244dl
180	75	europe	saab 99le
181	75	japan	honda civic cvcc
182	76	europe	fiat 131
183	76	europe	opel 1900
184	76	usa	capri ii
185	76	usa	dodge colt
186	76	europe	renault 12tl
187	76	usa	chevrolet chevelle malibu classic
188	76	usa	dodge coronet brougham
189	76	usa	amc matador
190	76	usa	ford gran torino
191	76	usa	plymouth valiant
192	76	usa	chevrolet nova
193	76	usa	ford maverick
194	76	usa	amc hornet
195	76	usa	chevrolet chevette
196	76	usa	chevrolet woody
197	76	europe	vw rabbit
198	76	japan	honda civic
199	76	usa	dodge aspen se
200	76	usa	ford granada ghia
201	76	usa	pontiac ventura sj
202	76	usa	amc pacer d/l
203	76	europe	volkswagen rabbit
204	76	japan	datsum b-210
205	76	japan	toyota corolla
206	76	usa	ford pinto
207	76	europe	volvo 245
208	76	usa	plymouth volare premier v8
209	76	europe	peugeot 504

210	76	japan	toyota mark ii
211	76	europe	mercedes-benz 280s
212	76	usa	cadillac seville
213	76	usa	chevy c10
214	76	usa	ford f108
215	76	usa	dodge d100
216	77	japan	honda accord cvcc
217	77	usa	buick opel isuzu deluxe
218	77	europe	renault 5 gtl
219	77	usa	plymouth arrow gs
220	77	japan	datsum f-10 hatchback
221	77	usa	chevrolet caprice classic
222	77	usa	oldsmobile cutlass supreme
223	77	usa	dodge monaco brougham
224	77	usa	mercury cougar brougham
225	77	usa	chevrolet concours
226	77	usa	buick skylark
227	77	usa	plymouth volare custom
228	77	usa	ford granada
229	77	usa	pontiac grand prix lj
230	77	usa	chevrolet monte carlo landau
231	77	usa	chrysler cordoba
232	77	usa	ford thunderbird
233	77	europe	volkswagen rabbit custom
234	77	usa	pontiac sunbird coupe
235	77	japan	toyota corolla liftback
236	77	usa	ford mustang ii 2+2
237	77	usa	chevrolet chevette
238	77	usa	dodge colt m/m
239	77	japan	subaru dl
240	77	europe	volkswagen dasher
241	77	japan	datsum 810
242	77	europe	bmw 320i
243	77	japan	mazda rx-4
244	78	europe	volkswagen rabbit custom diesel
245	78	usa	ford fiesta
246	78	japan	mazda glc deluxe
247	78	japan	datsum b210 gx
248	78	japan	honda civic cvcc
249	78	usa	oldsmobile cutlass salon brougham
250	78	usa	dodge diplomat
251	78	usa	mercury monarch ghia
252	78	usa	pontiac phoenix lj
253	78	usa	chevrolet malibu
254	78	usa	ford fairmont (auto)
255	78	usa	ford fairmont (man)
256	78	usa	plymouth volare
257	78	usa	amc concord
258	78	usa	buick century special
259	78	usa	mercury zephyr

260	78	usa	dodge aspen
261	78	usa	amc concord d/l
262	78	usa	chevrolet monte carlo landau
263	78	usa	buick regal sport coupe (turbo)
264	78	usa	ford futura
265	78	usa	dodge magnum xe
266	78	usa	chevrolet chevette
267	78	japan	toyota corona
268	78	japan	datsum 510
269	78	usa	dodge omni
270	78	japan	toyota celica gt liftback
271	78	usa	plymouth sapporo
272	78	usa	oldsmobile starfire sx
273	78	japan	datsum 200-sx
274	78	europe	audi 5000
275	78	europe	volvo 264gl
276	78	europe	saab 99gle
277	78	europe	peugeot 604sl
278	78	europe	volkswagen scirocco
279	78	japan	honda accord lx
280	79	usa	pontiac lemans v6
281	79	usa	mercury zephyr 6
282	79	usa	ford fairmont 4
283	79	usa	amc concord dl 6
284	79	usa	dodge aspen 6
285	79	usa	chevrolet caprice classic
286	79	usa	ford ltd landau
287	79	usa	mercury grand marquis
288	79	usa	dodge st. regis
289	79	usa	buick estate wagon (sw)
290	79	usa	ford country squire (sw)
291	79	usa	chevrolet malibu classic (sw)
292	79	usa	chrysler lebaron town @ country (sw)
293	79	europe	vw rabbit custom
294	79	japan	maxda glc deluxe
295	79	usa	dodge colt hatchback custom
296	79	usa	amc spirit dl
297	79	europe	mercedes benz 300d
298	79	usa	cadillac eldorado
299	79	europe	peugeot 504
300	79	usa	oldsmobile cutlass salon brougham
301	79	usa	plymouth horizon
302	79	usa	plymouth horizon tc3
303	79	japan	datsum 210
304	79	europe	fiat strada custom
305	79	usa	buick skylark limited
306	79	usa	chevrolet citation
307	79	usa	oldsmobile omega brougham
308	79	usa	pontiac phoenix
309	80	europe	vw rabbit

310	80	japan	toyota corolla tercel
311	80	usa	chevrolet chevette
312	80	japan	datsum 310
313	80	usa	chevrolet citation
314	80	usa	ford fairmont
315	80	usa	amc concord
316	80	usa	dodge aspen
317	80	europe	audi 4000
318	80	japan	toyota corona liftback
319	80	japan	mazda 626
320	80	japan	datsum 510 hatchback
321	80	japan	toyota corolla
322	80	japan	mazda glc
323	80	usa	dodge colt
324	80	japan	datsum 210
325	80	europe	vw rabbit c (diesel)
326	80	europe	vw dasher (diesel)
327	80	europe	audi 5000s (diesel)
328	80	europe	mercedes-benz 240d
329	80	japan	honda civic 1500 gl
330	80	europe	renault lecar deluxe
331	80	japan	subaru dl
332	80	europe	vokswagen rabbit
333	80	japan	datsum 280-zx
334	80	japan	mazda rx-7 gs
335	80	europe	triumph tr7 coupe
336	80	usa	ford mustang cobra
337	80	japan	honda accord
338	81	usa	plymouth reliant
339	81	usa	buick skylark
340	81	usa	dodge aries wagon (sw)
341	81	usa	chevrolet citation
342	81	usa	plymouth reliant
343	81	japan	toyota starlet
344	81	usa	plymouth champ
345	81	japan	honda civic 1300
346	81	japan	subaru
347	81	japan	datsum 210 mpg
348	81	japan	toyota tercel
349	81	japan	mazda glc 4
350	81	usa	plymouth horizon 4
351	81	usa	ford escort 4w
352	81	usa	ford escort 2h
353	81	europe	volkswagen jetta
354	81	europe	renault 18i
355	81	japan	honda prelude
356	81	japan	toyota corolla
357	81	japan	datsum 200sx
358	81	japan	mazda 626
359	81	europe	peugeot 505s turbo diesel

360	81	europa	volvo diesel
361	81	japan	toyota cressida
362	81	japan	datsum 810 maxima
363	81	usa	buick century
364	81	usa	oldsmobile cutlass ls
365	81	usa	ford granada gl
366	81	usa	chrysler lebaron salon
367	82	usa	chevrolet cavalier
368	82	usa	chevrolet cavalier wagon
369	82	usa	chevrolet cavalier 2-door
370	82	usa	pontiac j2000 se hatchback
371	82	usa	dodge aries se
372	82	usa	pontiac phoenix
373	82	usa	ford fairmont futura
374	82	usa	amc concord dl
375	82	europa	volkswagen rabbit l
376	82	japan	mazda glc custom l
377	82	japan	mazda glc custom
378	82	usa	plymouth horizon miser
379	82	usa	mercury lynx l
380	82	japan	nissan stanza xe
381	82	japan	honda accord
382	82	japan	toyota corolla
383	82	japan	honda civic
384	82	japan	honda civic (auto)
385	82	japan	datsum 310 gx
386	82	usa	buick century limited
387	82	usa	oldsmobile cutlass ciera (diesel)
388	82	usa	chrysler lebaron medallion
389	82	usa	ford granada l
390	82	japan	toyota celica gt
391	82	usa	dodge charger 2.2
392	82	usa	chevrolet camaro
393	82	usa	ford mustang gl
394	82	europa	vw pickup
395	82	usa	dodge rampage
396	82	usa	ford ranger
397	82	usa	chevy s-10

```
car=mpg.copy()
```

```
car
```

	mpg	cylinders	displacement	horsepower	weight	
acceleration \						
0	18.0	8	307.0	130.0	3504	12.0
1	15.0	8	350.0	165.0	3693	11.5
2	18.0	8	318.0	150.0	3436	11.0

3	16.0	8	304.0	150.0	3433	12.0
4	17.0	8	302.0	140.0	3449	10.5
5	15.0	8	429.0	198.0	4341	10.0
6	14.0	8	454.0	220.0	4354	9.0
7	14.0	8	440.0	215.0	4312	8.5
8	14.0	8	455.0	225.0	4425	10.0
9	15.0	8	390.0	190.0	3850	8.5
10	15.0	8	383.0	170.0	3563	10.0
11	14.0	8	340.0	160.0	3609	8.0
12	15.0	8	400.0	150.0	3761	9.5
13	14.0	8	455.0	225.0	3086	10.0
14	24.0	4	113.0	95.0	2372	15.0
15	22.0	6	198.0	95.0	2833	15.5
16	18.0	6	199.0	97.0	2774	15.5
17	21.0	6	200.0	85.0	2587	16.0
18	27.0	4	97.0	88.0	2130	14.5
19	26.0	4	97.0	46.0	1835	20.5
20	25.0	4	110.0	87.0	2672	17.5
21	24.0	4	107.0	90.0	2430	14.5
22	25.0	4	104.0	95.0	2375	17.5
23	26.0	4	121.0	113.0	2234	12.5
24	21.0	6	199.0	90.0	2648	15.0
25	10.0	8	360.0	215.0	4615	14.0
26	10.0	8	307.0	200.0	4376	15.0

27	11.0	8	318.0	210.0	4382	13.5
28	9.0	8	304.0	193.0	4732	18.5
29	27.0	4	97.0	88.0	2130	14.5
30	28.0	4	140.0	90.0	2264	15.5
31	25.0	4	113.0	95.0	2228	14.0
32	25.0	4	98.0	NaN	2046	19.0
33	19.0	6	232.0	100.0	2634	13.0
34	16.0	6	225.0	105.0	3439	15.5
35	17.0	6	250.0	100.0	3329	15.5
36	19.0	6	250.0	88.0	3302	15.5
37	18.0	6	232.0	100.0	3288	15.5
38	14.0	8	350.0	165.0	4209	12.0
39	14.0	8	400.0	175.0	4464	11.5
40	14.0	8	351.0	153.0	4154	13.5
41	14.0	8	318.0	150.0	4096	13.0
42	12.0	8	383.0	180.0	4955	11.5
43	13.0	8	400.0	170.0	4746	12.0
44	13.0	8	400.0	175.0	5140	12.0
45	18.0	6	258.0	110.0	2962	13.5
46	22.0	4	140.0	72.0	2408	19.0
47	19.0	6	250.0	100.0	3282	15.0
48	18.0	6	250.0	88.0	3139	14.5
49	23.0	4	122.0	86.0	2220	14.0
50	28.0	4	116.0	90.0	2123	14.0

51	30.0	4	79.0	70.0	2074	19.5
52	30.0	4	88.0	76.0	2065	14.5
53	31.0	4	71.0	65.0	1773	19.0
54	35.0	4	72.0	69.0	1613	18.0
55	27.0	4	97.0	60.0	1834	19.0
56	26.0	4	91.0	70.0	1955	20.5
57	24.0	4	113.0	95.0	2278	15.5
58	25.0	4	97.5	80.0	2126	17.0
59	23.0	4	97.0	54.0	2254	23.5
60	20.0	4	140.0	90.0	2408	19.5
61	21.0	4	122.0	86.0	2226	16.5
62	13.0	8	350.0	165.0	4274	12.0
63	14.0	8	400.0	175.0	4385	12.0
64	15.0	8	318.0	150.0	4135	13.5
65	14.0	8	351.0	153.0	4129	13.0
66	17.0	8	304.0	150.0	3672	11.5
67	11.0	8	429.0	208.0	4633	11.0
68	13.0	8	350.0	155.0	4502	13.5
69	12.0	8	350.0	160.0	4456	13.5
70	13.0	8	400.0	190.0	4422	12.5
71	19.0	3	70.0	97.0	2330	13.5
72	15.0	8	304.0	150.0	3892	12.5
73	13.0	8	307.0	130.0	4098	14.0
74	13.0	8	302.0	140.0	4294	16.0

75	14.0	8	318.0	150.0	4077	14.0
76	18.0	4	121.0	112.0	2933	14.5
77	22.0	4	121.0	76.0	2511	18.0
78	21.0	4	120.0	87.0	2979	19.5
79	26.0	4	96.0	69.0	2189	18.0
80	22.0	4	122.0	86.0	2395	16.0
81	28.0	4	97.0	92.0	2288	17.0
82	23.0	4	120.0	97.0	2506	14.5
83	28.0	4	98.0	80.0	2164	15.0
84	27.0	4	97.0	88.0	2100	16.5
85	13.0	8	350.0	175.0	4100	13.0
86	14.0	8	304.0	150.0	3672	11.5
87	13.0	8	350.0	145.0	3988	13.0
88	14.0	8	302.0	137.0	4042	14.5
89	15.0	8	318.0	150.0	3777	12.5
90	12.0	8	429.0	198.0	4952	11.5
91	13.0	8	400.0	150.0	4464	12.0
92	13.0	8	351.0	158.0	4363	13.0
93	14.0	8	318.0	150.0	4237	14.5
94	13.0	8	440.0	215.0	4735	11.0
95	12.0	8	455.0	225.0	4951	11.0
96	13.0	8	360.0	175.0	3821	11.0
97	18.0	6	225.0	105.0	3121	16.5
98	16.0	6	250.0	100.0	3278	18.0

99	18.0	6	232.0	100.0	2945	16.0
100	18.0	6	250.0	88.0	3021	16.5
101	23.0	6	198.0	95.0	2904	16.0
102	26.0	4	97.0	46.0	1950	21.0
103	11.0	8	400.0	150.0	4997	14.0
104	12.0	8	400.0	167.0	4906	12.5
105	13.0	8	360.0	170.0	4654	13.0
106	12.0	8	350.0	180.0	4499	12.5
107	18.0	6	232.0	100.0	2789	15.0
108	20.0	4	97.0	88.0	2279	19.0
109	21.0	4	140.0	72.0	2401	19.5
110	22.0	4	108.0	94.0	2379	16.5
111	18.0	3	70.0	90.0	2124	13.5
112	19.0	4	122.0	85.0	2310	18.5
113	21.0	6	155.0	107.0	2472	14.0
114	26.0	4	98.0	90.0	2265	15.5
115	15.0	8	350.0	145.0	4082	13.0
116	16.0	8	400.0	230.0	4278	9.5
117	29.0	4	68.0	49.0	1867	19.5
118	24.0	4	116.0	75.0	2158	15.5
119	20.0	4	114.0	91.0	2582	14.0
120	19.0	4	121.0	112.0	2868	15.5
121	15.0	8	318.0	150.0	3399	11.0
122	24.0	4	121.0	110.0	2660	14.0

123	20.0	6	156.0	122.0	2807	13.5
124	11.0	8	350.0	180.0	3664	11.0
125	20.0	6	198.0	95.0	3102	16.5
126	21.0	6	200.0	NaN	2875	17.0
127	19.0	6	232.0	100.0	2901	16.0
128	15.0	6	250.0	100.0	3336	17.0
129	31.0	4	79.0	67.0	1950	19.0
130	26.0	4	122.0	80.0	2451	16.5
131	32.0	4	71.0	65.0	1836	21.0
132	25.0	4	140.0	75.0	2542	17.0
133	16.0	6	250.0	100.0	3781	17.0
134	16.0	6	258.0	110.0	3632	18.0
135	18.0	6	225.0	105.0	3613	16.5
136	16.0	8	302.0	140.0	4141	14.0
137	13.0	8	350.0	150.0	4699	14.5
138	14.0	8	318.0	150.0	4457	13.5
139	14.0	8	302.0	140.0	4638	16.0
140	14.0	8	304.0	150.0	4257	15.5
141	29.0	4	98.0	83.0	2219	16.5
142	26.0	4	79.0	67.0	1963	15.5
143	26.0	4	97.0	78.0	2300	14.5
144	31.0	4	76.0	52.0	1649	16.5
145	32.0	4	83.0	61.0	2003	19.0
146	28.0	4	90.0	75.0	2125	14.5

147	24.0	4	90.0	75.0	2108	15.5
148	26.0	4	116.0	75.0	2246	14.0
149	24.0	4	120.0	97.0	2489	15.0
150	26.0	4	108.0	93.0	2391	15.5
151	31.0	4	79.0	67.0	2000	16.0
152	19.0	6	225.0	95.0	3264	16.0
153	18.0	6	250.0	105.0	3459	16.0
154	15.0	6	250.0	72.0	3432	21.0
155	15.0	6	250.0	72.0	3158	19.5
156	16.0	8	400.0	170.0	4668	11.5
157	15.0	8	350.0	145.0	4440	14.0
158	16.0	8	318.0	150.0	4498	14.5
159	14.0	8	351.0	148.0	4657	13.5
160	17.0	6	231.0	110.0	3907	21.0
161	16.0	6	250.0	105.0	3897	18.5
162	15.0	6	258.0	110.0	3730	19.0
163	18.0	6	225.0	95.0	3785	19.0
164	21.0	6	231.0	110.0	3039	15.0
165	20.0	8	262.0	110.0	3221	13.5
166	13.0	8	302.0	129.0	3169	12.0
167	29.0	4	97.0	75.0	2171	16.0
168	23.0	4	140.0	83.0	2639	17.0
169	20.0	6	232.0	100.0	2914	16.0
170	23.0	4	140.0	78.0	2592	18.5

171	24.0	4	134.0	96.0	2702	13.5
172	25.0	4	90.0	71.0	2223	16.5
173	24.0	4	119.0	97.0	2545	17.0
174	18.0	6	171.0	97.0	2984	14.5
175	29.0	4	90.0	70.0	1937	14.0
176	19.0	6	232.0	90.0	3211	17.0
177	23.0	4	115.0	95.0	2694	15.0
178	23.0	4	120.0	88.0	2957	17.0
179	22.0	4	121.0	98.0	2945	14.5
180	25.0	4	121.0	115.0	2671	13.5
181	33.0	4	91.0	53.0	1795	17.5
182	28.0	4	107.0	86.0	2464	15.5
183	25.0	4	116.0	81.0	2220	16.9
184	25.0	4	140.0	92.0	2572	14.9
185	26.0	4	98.0	79.0	2255	17.7
186	27.0	4	101.0	83.0	2202	15.3
187	17.5	8	305.0	140.0	4215	13.0
188	16.0	8	318.0	150.0	4190	13.0
189	15.5	8	304.0	120.0	3962	13.9
190	14.5	8	351.0	152.0	4215	12.8
191	22.0	6	225.0	100.0	3233	15.4
192	22.0	6	250.0	105.0	3353	14.5
193	24.0	6	200.0	81.0	3012	17.6
194	22.5	6	232.0	90.0	3085	17.6

195	29.0	4	85.0	52.0	2035	22.2
196	24.5	4	98.0	60.0	2164	22.1
197	29.0	4	90.0	70.0	1937	14.2
198	33.0	4	91.0	53.0	1795	17.4
199	20.0	6	225.0	100.0	3651	17.7
200	18.0	6	250.0	78.0	3574	21.0
201	18.5	6	250.0	110.0	3645	16.2
202	17.5	6	258.0	95.0	3193	17.8
203	29.5	4	97.0	71.0	1825	12.2
204	32.0	4	85.0	70.0	1990	17.0
205	28.0	4	97.0	75.0	2155	16.4
206	26.5	4	140.0	72.0	2565	13.6
207	20.0	4	130.0	102.0	3150	15.7
208	13.0	8	318.0	150.0	3940	13.2
209	19.0	4	120.0	88.0	3270	21.9
210	19.0	6	156.0	108.0	2930	15.5
211	16.5	6	168.0	120.0	3820	16.7
212	16.5	8	350.0	180.0	4380	12.1
213	13.0	8	350.0	145.0	4055	12.0
214	13.0	8	302.0	130.0	3870	15.0
215	13.0	8	318.0	150.0	3755	14.0
216	31.5	4	98.0	68.0	2045	18.5
217	30.0	4	111.0	80.0	2155	14.8
218	36.0	4	79.0	58.0	1825	18.6

219	25.5	4	122.0	96.0	2300	15.5
220	33.5	4	85.0	70.0	1945	16.8
221	17.5	8	305.0	145.0	3880	12.5
222	17.0	8	260.0	110.0	4060	19.0
223	15.5	8	318.0	145.0	4140	13.7
224	15.0	8	302.0	130.0	4295	14.9
225	17.5	6	250.0	110.0	3520	16.4
226	20.5	6	231.0	105.0	3425	16.9
227	19.0	6	225.0	100.0	3630	17.7
228	18.5	6	250.0	98.0	3525	19.0
229	16.0	8	400.0	180.0	4220	11.1
230	15.5	8	350.0	170.0	4165	11.4
231	15.5	8	400.0	190.0	4325	12.2
232	16.0	8	351.0	149.0	4335	14.5
233	29.0	4	97.0	78.0	1940	14.5
234	24.5	4	151.0	88.0	2740	16.0
235	26.0	4	97.0	75.0	2265	18.2
236	25.5	4	140.0	89.0	2755	15.8
237	30.5	4	98.0	63.0	2051	17.0
238	33.5	4	98.0	83.0	2075	15.9
239	30.0	4	97.0	67.0	1985	16.4
240	30.5	4	97.0	78.0	2190	14.1
241	22.0	6	146.0	97.0	2815	14.5
242	21.5	4	121.0	110.0	2600	12.8

243	21.5	3	80.0	110.0	2720	13.5
244	43.1	4	90.0	48.0	1985	21.5
245	36.1	4	98.0	66.0	1800	14.4
246	32.8	4	78.0	52.0	1985	19.4
247	39.4	4	85.0	70.0	2070	18.6
248	36.1	4	91.0	60.0	1800	16.4
249	19.9	8	260.0	110.0	3365	15.5
250	19.4	8	318.0	140.0	3735	13.2
251	20.2	8	302.0	139.0	3570	12.8
252	19.2	6	231.0	105.0	3535	19.2
253	20.5	6	200.0	95.0	3155	18.2
254	20.2	6	200.0	85.0	2965	15.8
255	25.1	4	140.0	88.0	2720	15.4
256	20.5	6	225.0	100.0	3430	17.2
257	19.4	6	232.0	90.0	3210	17.2
258	20.6	6	231.0	105.0	3380	15.8
259	20.8	6	200.0	85.0	3070	16.7
260	18.6	6	225.0	110.0	3620	18.7
261	18.1	6	258.0	120.0	3410	15.1
262	19.2	8	305.0	145.0	3425	13.2
263	17.7	6	231.0	165.0	3445	13.4
264	18.1	8	302.0	139.0	3205	11.2
265	17.5	8	318.0	140.0	4080	13.7
266	30.0	4	98.0	68.0	2155	16.5

267	27.5	4	134.0	95.0	2560	14.2
268	27.2	4	119.0	97.0	2300	14.7
269	30.9	4	105.0	75.0	2230	14.5
270	21.1	4	134.0	95.0	2515	14.8
271	23.2	4	156.0	105.0	2745	16.7
272	23.8	4	151.0	85.0	2855	17.6
273	23.9	4	119.0	97.0	2405	14.9
274	20.3	5	131.0	103.0	2830	15.9
275	17.0	6	163.0	125.0	3140	13.6
276	21.6	4	121.0	115.0	2795	15.7
277	16.2	6	163.0	133.0	3410	15.8
278	31.5	4	89.0	71.0	1990	14.9
279	29.5	4	98.0	68.0	2135	16.6
280	21.5	6	231.0	115.0	3245	15.4
281	19.8	6	200.0	85.0	2990	18.2
282	22.3	4	140.0	88.0	2890	17.3
283	20.2	6	232.0	90.0	3265	18.2
284	20.6	6	225.0	110.0	3360	16.6
285	17.0	8	305.0	130.0	3840	15.4
286	17.6	8	302.0	129.0	3725	13.4
287	16.5	8	351.0	138.0	3955	13.2
288	18.2	8	318.0	135.0	3830	15.2
289	16.9	8	350.0	155.0	4360	14.9
290	15.5	8	351.0	142.0	4054	14.3

291	19.2	8	267.0	125.0	3605	15.0
292	18.5	8	360.0	150.0	3940	13.0
293	31.9	4	89.0	71.0	1925	14.0
294	34.1	4	86.0	65.0	1975	15.2
295	35.7	4	98.0	80.0	1915	14.4
296	27.4	4	121.0	80.0	2670	15.0
297	25.4	5	183.0	77.0	3530	20.1
298	23.0	8	350.0	125.0	3900	17.4
299	27.2	4	141.0	71.0	3190	24.8
300	23.9	8	260.0	90.0	3420	22.2
301	34.2	4	105.0	70.0	2200	13.2
302	34.5	4	105.0	70.0	2150	14.9
303	31.8	4	85.0	65.0	2020	19.2
304	37.3	4	91.0	69.0	2130	14.7
305	28.4	4	151.0	90.0	2670	16.0
306	28.8	6	173.0	115.0	2595	11.3
307	26.8	6	173.0	115.0	2700	12.9
308	33.5	4	151.0	90.0	2556	13.2
309	41.5	4	98.0	76.0	2144	14.7
310	38.1	4	89.0	60.0	1968	18.8
311	32.1	4	98.0	70.0	2120	15.5
312	37.2	4	86.0	65.0	2019	16.4
313	28.0	4	151.0	90.0	2678	16.5
314	26.4	4	140.0	88.0	2870	18.1

315	24.3	4	151.0	90.0	3003	20.1
316	19.1	6	225.0	90.0	3381	18.7
317	34.3	4	97.0	78.0	2188	15.8
318	29.8	4	134.0	90.0	2711	15.5
319	31.3	4	120.0	75.0	2542	17.5
320	37.0	4	119.0	92.0	2434	15.0
321	32.2	4	108.0	75.0	2265	15.2
322	46.6	4	86.0	65.0	2110	17.9
323	27.9	4	156.0	105.0	2800	14.4
324	40.8	4	85.0	65.0	2110	19.2
325	44.3	4	90.0	48.0	2085	21.7
326	43.4	4	90.0	48.0	2335	23.7
327	36.4	5	121.0	67.0	2950	19.9
328	30.0	4	146.0	67.0	3250	21.8
329	44.6	4	91.0	67.0	1850	13.8
330	40.9	4	85.0	NaN	1835	17.3
331	33.8	4	97.0	67.0	2145	18.0
332	29.8	4	89.0	62.0	1845	15.3
333	32.7	6	168.0	132.0	2910	11.4
334	23.7	3	70.0	100.0	2420	12.5
335	35.0	4	122.0	88.0	2500	15.1
336	23.6	4	140.0	NaN	2905	14.3
337	32.4	4	107.0	72.0	2290	17.0
338	27.2	4	135.0	84.0	2490	15.7

339	26.6	4	151.0	84.0	2635	16.4
340	25.8	4	156.0	92.0	2620	14.4
341	23.5	6	173.0	110.0	2725	12.6
342	30.0	4	135.0	84.0	2385	12.9
343	39.1	4	79.0	58.0	1755	16.9
344	39.0	4	86.0	64.0	1875	16.4
345	35.1	4	81.0	60.0	1760	16.1
346	32.3	4	97.0	67.0	2065	17.8
347	37.0	4	85.0	65.0	1975	19.4
348	37.7	4	89.0	62.0	2050	17.3
349	34.1	4	91.0	68.0	1985	16.0
350	34.7	4	105.0	63.0	2215	14.9
351	34.4	4	98.0	65.0	2045	16.2
352	29.9	4	98.0	65.0	2380	20.7
353	33.0	4	105.0	74.0	2190	14.2
354	34.5	4	100.0	NaN	2320	15.8
355	33.7	4	107.0	75.0	2210	14.4
356	32.4	4	108.0	75.0	2350	16.8
357	32.9	4	119.0	100.0	2615	14.8
358	31.6	4	120.0	74.0	2635	18.3
359	28.1	4	141.0	80.0	3230	20.4
360	30.7	6	145.0	76.0	3160	19.6
361	25.4	6	168.0	116.0	2900	12.6
362	24.2	6	146.0	120.0	2930	13.8

363	22.4	6	231.0	110.0	3415	15.8
364	26.6	8	350.0	105.0	3725	19.0
365	20.2	6	200.0	88.0	3060	17.1
366	17.6	6	225.0	85.0	3465	16.6
367	28.0	4	112.0	88.0	2605	19.6
368	27.0	4	112.0	88.0	2640	18.6
369	34.0	4	112.0	88.0	2395	18.0
370	31.0	4	112.0	85.0	2575	16.2
371	29.0	4	135.0	84.0	2525	16.0
372	27.0	4	151.0	90.0	2735	18.0
373	24.0	4	140.0	92.0	2865	16.4
374	23.0	4	151.0	NaN	3035	20.5
375	36.0	4	105.0	74.0	1980	15.3
376	37.0	4	91.0	68.0	2025	18.2
377	31.0	4	91.0	68.0	1970	17.6
378	38.0	4	105.0	63.0	2125	14.7
379	36.0	4	98.0	70.0	2125	17.3
380	36.0	4	120.0	88.0	2160	14.5
381	36.0	4	107.0	75.0	2205	14.5
382	34.0	4	108.0	70.0	2245	16.9
383	38.0	4	91.0	67.0	1965	15.0
384	32.0	4	91.0	67.0	1965	15.7
385	38.0	4	91.0	67.0	1995	16.2
386	25.0	6	181.0	110.0	2945	16.4

387	38.0	6	262.0	85.0	3015	17.0
388	26.0	4	156.0	92.0	2585	14.5
389	22.0	6	232.0	112.0	2835	14.7
390	32.0	4	144.0	96.0	2665	13.9
391	36.0	4	135.0	84.0	2370	13.0
392	27.0	4	151.0	90.0	2950	17.3
393	27.0	4	140.0	86.0	2790	15.6
394	44.0	4	97.0	52.0	2130	24.6
395	32.0	4	135.0	84.0	2295	11.6
396	28.0	4	120.0	79.0	2625	18.6
397	31.0	4	119.0	82.0	2720	19.4

	model_year	origin	name
0	70	usa	chevrolet chevelle malibu
1	70	usa	buick skylark 320
2	70	usa	plymouth satellite
3	70	usa	amc rebel sst
4	70	usa	ford torino
5	70	usa	ford galaxie 500
6	70	usa	chevrolet impala
7	70	usa	plymouth fury iii
8	70	usa	pontiac catalina
9	70	usa	amc ambassador dpl
10	70	usa	dodge challenger se
11	70	usa	plymouth 'cuda 340
12	70	usa	chevrolet monte carlo
13	70	usa	buick estate wagon (sw)
14	70	japan	toyota corona mark ii
15	70	usa	plymouth duster
16	70	usa	amc hornet
17	70	usa	ford maverick
18	70	japan	datsum pl510
19	70	europe	volkswagen 1131 deluxe sedan
20	70	europe	peugeot 504
21	70	europe	audi 100 ls
22	70	europe	saab 99e
23	70	europe	bmw 2002

24	70	usa	amc gremlin
25	70	usa	ford f250
26	70	usa	chevy c20
27	70	usa	dodge d200
28	70	usa	hi 1200d
29	71	japan	datsum pl510
30	71	usa	chevrolet vega 2300
31	71	japan	toyota corona
32	71	usa	ford pinto
33	71	usa	amc gremlin
34	71	usa	plymouth satellite custom
35	71	usa	chevrolet chevelle malibu
36	71	usa	ford torino 500
37	71	usa	amc matador
38	71	usa	chevrolet impala
39	71	usa	pontiac catalina brougham
40	71	usa	ford galaxie 500
41	71	usa	plymouth fury iii
42	71	usa	dodge monaco (sw)
43	71	usa	ford country squire (sw)
44	71	usa	pontiac safari (sw)
45	71	usa	amc hornet sportabout (sw)
46	71	usa	chevrolet vega (sw)
47	71	usa	pontiac firebird
48	71	usa	ford mustang
49	71	usa	mercury capri 2000
50	71	europe	opel 1900
51	71	europe	peugeot 304
52	71	europe	fiat 124b
53	71	japan	toyota corolla 1200
54	71	japan	datsum 1200
55	71	europe	volkswagen model 111
56	71	usa	plymouth cricket
57	72	japan	toyota corona hardtop
58	72	usa	dodge colt hardtop
59	72	europe	volkswagen type 3
60	72	usa	chevrolet vega
61	72	usa	ford pinto runabout
62	72	usa	chevrolet impala
63	72	usa	pontiac catalina
64	72	usa	plymouth fury iii
65	72	usa	ford galaxie 500
66	72	usa	amc ambassador sst
67	72	usa	mercury marquis
68	72	usa	buick lesabre custom
69	72	usa	oldsmobile delta 88 royale
70	72	usa	chrysler newport royal
71	72	japan	mazda rx2 coupe
72	72	usa	amc matador (sw)
73	72	usa	chevrolet chevelle concours (sw)

74	72	usa	ford gran torino (sw)
75	72	usa	plymouth satellite custom (sw)
76	72	europe	volvo 145e (sw)
77	72	europe	volkswagen 411 (sw)
78	72	europe	peugeot 504 (sw)
79	72	europe	renault 12 (sw)
80	72	usa	ford pinto (sw)
81	72	japan	datsum 510 (sw)
82	72	japan	toyouta corona mark ii (sw)
83	72	usa	dodge colt (sw)
84	72	japan	toyota corolla 1600 (sw)
85	73	usa	buick century 350
86	73	usa	amc matador
87	73	usa	chevrolet malibu
88	73	usa	ford gran torino
89	73	usa	dodge coronet custom
90	73	usa	mercury marquis brougham
91	73	usa	chevrolet caprice classic
92	73	usa	ford ltd
93	73	usa	plymouth fury gran sedan
94	73	usa	chrysler new yorker brougham
95	73	usa	buick electra 225 custom
96	73	usa	amc ambassador brougham
97	73	usa	plymouth valiant
98	73	usa	chevrolet nova custom
99	73	usa	amc hornet
100	73	usa	ford maverick
101	73	usa	plymouth duster
102	73	europe	volkswagen super beetle
103	73	usa	chevrolet impala
104	73	usa	ford country
105	73	usa	plymouth custom suburb
106	73	usa	oldsmobile vista cruiser
107	73	usa	amc gremlin
108	73	japan	toyota carina
109	73	usa	chevrolet vega
110	73	japan	datsum 610
111	73	japan	maxda rx3
112	73	usa	ford pinto
113	73	usa	mercury capri v6
114	73	europe	fiat 124 sport coupe
115	73	usa	chevrolet monte carlo s
116	73	usa	pontiac grand prix
117	73	europe	fiat 128
118	73	europe	opel manta
119	73	europe	audi 100ls
120	73	europe	volvo 144ea
121	73	usa	dodge dart custom
122	73	europe	saab 99le
123	73	japan	toyota mark ii

124	73	usa	oldsmobile omega
125	74	usa	plymouth duster
126	74	usa	ford maverick
127	74	usa	amc hornet
128	74	usa	chevrolet nova
129	74	japan	datsum b210
130	74	usa	ford pinto
131	74	japan	toyota corolla 1200
132	74	usa	chevrolet vega
133	74	usa	chevrolet chevelle malibu classic
134	74	usa	amc matador
135	74	usa	plymouth satelllite sebring
136	74	usa	ford gran torino
137	74	usa	buick century luxus (sw)
138	74	usa	dodge coronet custom (sw)
139	74	usa	ford gran torino (sw)
140	74	usa	amc matador (sw)
141	74	europe	audi fox
142	74	europe	volkswagen dasher
143	74	europe	opel manta
144	74	japan	toyota corona
145	74	japan	datsum 710
146	74	usa	dodge colt
147	74	europe	fiat 128
148	74	europe	fiat 124 tc
149	74	japan	honda civic
150	74	japan	subaru
151	74	europe	fiat x1.9
152	75	usa	plymouth valiant custom
153	75	usa	chevrolet nova
154	75	usa	mercury monarch
155	75	usa	ford maverick
156	75	usa	pontiac catalina
157	75	usa	chevrolet bel air
158	75	usa	plymouth grand fury
159	75	usa	ford ltd
160	75	usa	buick century
161	75	usa	chevroelt chevelle malibu
162	75	usa	amc matador
163	75	usa	plymouth fury
164	75	usa	buick skyhawk
165	75	usa	chevrolet monza 2+2
166	75	usa	ford mustang ii
167	75	japan	toyota corolla
168	75	usa	ford pinto
169	75	usa	amc gremlin
170	75	usa	pontiac astro
171	75	japan	toyota corona
172	75	europe	volkswagen dasher
173	75	japan	datsum 710

174	75	usa	ford pinto
175	75	europa	volkswagen rabbit
176	75	usa	amc pacer
177	75	europa	audi 100ls
178	75	europa	peugeot 504
179	75	europa	volvo 244dl
180	75	europa	saab 99le
181	75	japan	honda civic cvcc
182	76	europa	fiat 131
183	76	europa	opel 1900
184	76	usa	capri ii
185	76	usa	dodge colt
186	76	europa	renault 12tl
187	76	usa	chevrolet chevelle malibu classic
188	76	usa	dodge coronet brougham
189	76	usa	amc matador
190	76	usa	ford gran torino
191	76	usa	plymouth valiant
192	76	usa	chevrolet nova
193	76	usa	ford maverick
194	76	usa	amc hornet
195	76	usa	chevrolet chevette
196	76	usa	chevrolet woody
197	76	europa	vw rabbit
198	76	japan	honda civic
199	76	usa	dodge aspen se
200	76	usa	ford granada ghia
201	76	usa	pontiac ventura sj
202	76	usa	amc pacer d/l
203	76	europa	volkswagen rabbit
204	76	japan	datsum b-210
205	76	japan	toyota corolla
206	76	usa	ford pinto
207	76	europa	volvo 245
208	76	usa	plymouth volare premier v8
209	76	europa	peugeot 504
210	76	japan	toyota mark ii
211	76	europa	mercedes-benz 280s
212	76	usa	cadillac seville
213	76	usa	chevy c10
214	76	usa	ford f108
215	76	usa	dodge d100
216	77	japan	honda accord cvcc
217	77	usa	buick opel isuzu deluxe
218	77	europa	renault 5 gtl
219	77	usa	plymouth arrow gs
220	77	japan	datsum f-10 hatchback
221	77	usa	chevrolet caprice classic
222	77	usa	oldsmobile cutlass supreme
223	77	usa	dodge monaco brougham

224	77	usa	mercury cougar brougham
225	77	usa	chevrolet concours
226	77	usa	buick skylark
227	77	usa	plymouth volare custom
228	77	usa	ford granada
229	77	usa	pontiac grand prix lj
230	77	usa	chevrolet monte carlo landau
231	77	usa	chrysler cordoba
232	77	usa	ford thunderbird
233	77	europe	volkswagen rabbit custom
234	77	usa	pontiac sunbird coupe
235	77	japan	toyota corolla liftback
236	77	usa	ford mustang ii 2+2
237	77	usa	chevrolet chevette
238	77	usa	dodge colt m/m
239	77	japan	subaru dl
240	77	europe	volkswagen dasher
241	77	japan	datsum 810
242	77	europe	bmw 320i
243	77	japan	mazda rx-4
244	78	europe	volkswagen rabbit custom diesel
245	78	usa	ford fiesta
246	78	japan	mazda glc deluxe
247	78	japan	datsum b210 gx
248	78	japan	honda civic cvcc
249	78	usa	oldsmobile cutlass salon brougham
250	78	usa	dodge diplomat
251	78	usa	mercury monarch ghia
252	78	usa	pontiac phoenix lj
253	78	usa	chevrolet malibu
254	78	usa	ford fairmont (auto)
255	78	usa	ford fairmont (man)
256	78	usa	plymouth volare
257	78	usa	amc concord
258	78	usa	buick century special
259	78	usa	mercury zephyr
260	78	usa	dodge aspen
261	78	usa	amc concord d/l
262	78	usa	chevrolet monte carlo landau
263	78	usa	buick regal sport coupe (turbo)
264	78	usa	ford futura
265	78	usa	dodge magnum xe
266	78	usa	chevrolet chevette
267	78	japan	toyota corona
268	78	japan	datsum 510
269	78	usa	dodge omni
270	78	japan	toyota celica gt liftback
271	78	usa	plymouth sapporo
272	78	usa	oldsmobile starfire sx
273	78	japan	datsum 200-sx

274	78	europa	audi 5000
275	78	europa	volvo 264gl
276	78	europa	saab 99gle
277	78	europa	peugeot 604sl
278	78	europa	volkswagen scirocco
279	78	japan	honda accord lx
280	79	usa	pontiac lemans v6
281	79	usa	mercury zephyr 6
282	79	usa	ford fairmont 4
283	79	usa	amc concord dl 6
284	79	usa	dodge aspen 6
285	79	usa	chevrolet caprice classic
286	79	usa	ford ltd landau
287	79	usa	mercury grand marquis
288	79	usa	dodge st. regis
289	79	usa	buick estate wagon (sw)
290	79	usa	ford country squire (sw)
291	79	usa	chevrolet malibu classic (sw)
292	79	usa	chrysler lebaron town @ country (sw)
293	79	europa	vw rabbit custom
294	79	japan	maxda glc deluxe
295	79	usa	dodge colt hatchback custom
296	79	usa	amc spirit dl
297	79	europa	mercedes benz 300d
298	79	usa	cadillac eldorado
299	79	europa	peugeot 504
300	79	usa	oldsmobile cutlass salon brougham
301	79	usa	plymouth horizon
302	79	usa	plymouth horizon tc3
303	79	japan	datsum 210
304	79	europa	fiat strada custom
305	79	usa	buick skylark limited
306	79	usa	chevrolet citation
307	79	usa	oldsmobile omega brougham
308	79	usa	pontiac phoenix
309	80	europa	vw rabbit
310	80	japan	toyota corolla tercel
311	80	usa	chevrolet chevette
312	80	japan	datsum 310
313	80	usa	chevrolet citation
314	80	usa	ford fairmont
315	80	usa	amc concord
316	80	usa	dodge aspen
317	80	europa	audi 4000
318	80	japan	toyota corona liftback
319	80	japan	mazda 626
320	80	japan	datsum 510 hatchback
321	80	japan	toyota corolla
322	80	japan	mazda glc
323	80	usa	dodge colt

324	80	japan	datsum 210
325	80	europe	vw rabbit c (diesel)
326	80	europe	vw dasher (diesel)
327	80	europe	audi 5000s (diesel)
328	80	europe	mercedes-benz 240d
329	80	japan	honda civic 1500 gl
330	80	europe	renault lecar deluxe
331	80	japan	subaru dl
332	80	europe	vokswagen rabbit
333	80	japan	datsum 280-zx
334	80	japan	mazda rx-7 gs
335	80	europe	triumph tr7 coupe
336	80	usa	ford mustang cobra
337	80	japan	honda accord
338	81	usa	plymouth reliant
339	81	usa	buick skylark
340	81	usa	dodge aries wagon (sw)
341	81	usa	chevrolet citation
342	81	usa	plymouth reliant
343	81	japan	toyota starlet
344	81	usa	plymouth champ
345	81	japan	honda civic 1300
346	81	japan	subaru
347	81	japan	datsum 210 mpg
348	81	japan	toyota tercel
349	81	japan	mazda glc 4
350	81	usa	plymouth horizon 4
351	81	usa	ford escort 4w
352	81	usa	ford escort 2h
353	81	europe	volkswagen jetta
354	81	europe	renault 18i
355	81	japan	honda prelude
356	81	japan	toyota corolla
357	81	japan	datsum 200sx
358	81	japan	mazda 626
359	81	europe	peugeot 505s turbo diesel
360	81	europe	volvo diesel
361	81	japan	toyota cressida
362	81	japan	datsum 810 maxima
363	81	usa	buick century
364	81	usa	oldsmobile cutlass ls
365	81	usa	ford granada gl
366	81	usa	chrysler lebaron salon
367	82	usa	chevrolet cavalier
368	82	usa	chevrolet cavalier wagon
369	82	usa	chevrolet cavalier 2-door
370	82	usa	pontiac j2000 se hatchback
371	82	usa	dodge aries se
372	82	usa	pontiac phoenix
373	82	usa	ford fairmont futura

```

374      82      usa      amc concord dl
375      82 europe      volkswagen rabbit l
376      82      japan      mazda glc custom l
377      82      japan      mazda glc custom
378      82      usa      plymouth horizon miser
379      82      usa      mercury lynx l
380      82      japan      nissan stanza xe
381      82      japan      honda accord
382      82      japan      toyota corolla
383      82      japan      honda civic
384      82      japan      honda civic (auto)
385      82      japan      datsun 310 gx
386      82      usa      buick century limited
387      82      usa      oldsmobile cutlass ciera (diesel)
388      82      usa      chrysler lebaron medallion
389      82      usa      ford granada l
390      82      japan      toyota celica gt
391      82      usa      dodge charger 2.2
392      82      usa      chevrolet camaro
393      82      usa      ford mustang gl
394      82 europe      vw pickup
395      82      usa      dodge rampage
396      82      usa      ford ranger
397      82      usa      chevy s-10

```

```
mpg=mpg.drop('cylinders',axis=1)
```

```
mpg.columns
```

```
Index(['mpg', 'displacement', 'horsepower', 'weight', 'acceleration',
      'model_year', 'origin', 'name'],
      dtype='object')
```

```
car.columns
```

```
Index(['mpg', 'cylinders', 'displacement', 'horsepower', 'weight',
      'acceleration', 'model_year', 'origin', 'name'],
      dtype='object')
```

```
car.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 398 entries, 0 to 397
```

```
Data columns (total 9 columns):
```

#	Column	Non-Null Count	Dtype
0	mpg	398 non-null	float64
1	cylinders	398 non-null	int64
2	displacement	398 non-null	float64
3	horsepower	392 non-null	float64
4	weight	398 non-null	int64
5	acceleration	398 non-null	float64

```
6  model_year      398 non-null    int64
7  origin          398 non-null    object
8  name            398 non-null    object
dtypes: float64(4), int64(3), object(2)
memory usage: 28.1+ KB
```

```
car.describe()
```

	mpg	cylinders	displacement	horsepower	weight \
count	398.000000	398.000000	398.000000	392.000000	398.000000
mean	23.514573	5.454774	193.425879	104.469388	2970.424623
std	7.815984	1.701004	104.269838	38.491160	846.841774
min	9.000000	3.000000	68.000000	46.000000	1613.000000
25%	17.500000	4.000000	104.250000	75.000000	2223.750000
50%	23.000000	4.000000	148.500000	93.500000	2803.500000
75%	29.000000	8.000000	262.000000	126.000000	3608.000000
max	46.600000	8.000000	455.000000	230.000000	5140.000000

	acceleration	model_year
count	398.000000	398.000000
mean	15.568090	76.010050
std	2.757689	3.697627
min	8.000000	70.000000
25%	13.825000	73.000000
50%	15.500000	76.000000
75%	17.175000	79.000000
max	24.800000	82.000000

```
car[['cylinders', 'origin']].value_counts()
```

cylinders	origin	
8	usa	103
6	usa	74
4	usa	72
	japan	69
	europa	63
6	japan	6
3	japan	4
6	europa	4
5	europa	3

dtype: int64

```
car[['origin']].value_counts()
```

```
origin
```

```
usa      249
```

```
japan    79
```

```
europe   70
```

```
dtype: int64
```

```
car['origin'].unique()
```

```
array(['usa', 'japan', 'europe'], dtype=object)
```

```
car['origin'].nunique()
```

```
3
```

```
car.sort_values('displacement')
```

	mpg	cylinders	displacement	horsepower	weight	
acceleration \						
117	29.0	4	68.0	49.0	1867	19.5
71	19.0	3	70.0	97.0	2330	13.5
111	18.0	3	70.0	90.0	2124	13.5
334	23.7	3	70.0	100.0	2420	12.5
131	32.0	4	71.0	65.0	1836	21.0
53	31.0	4	71.0	65.0	1773	19.0
54	35.0	4	72.0	69.0	1613	18.0
144	31.0	4	76.0	52.0	1649	16.5
246	32.8	4	78.0	52.0	1985	19.4
142	26.0	4	79.0	67.0	1963	15.5
343	39.1	4	79.0	58.0	1755	16.9
51	30.0	4	79.0	70.0	2074	19.5
218	36.0	4	79.0	58.0	1825	18.6
151	31.0	4	79.0	67.0	2000	16.0
129	31.0	4	79.0	67.0	1950	19.0

243	21.5	3	80.0	110.0	2720	13.5
345	35.1	4	81.0	60.0	1760	16.1
145	32.0	4	83.0	61.0	2003	19.0
195	29.0	4	85.0	52.0	2035	22.2
347	37.0	4	85.0	65.0	1975	19.4
324	40.8	4	85.0	65.0	2110	19.2
303	31.8	4	85.0	65.0	2020	19.2
330	40.9	4	85.0	NaN	1835	17.3
220	33.5	4	85.0	70.0	1945	16.8
204	32.0	4	85.0	70.0	1990	17.0
247	39.4	4	85.0	70.0	2070	18.6
294	34.1	4	86.0	65.0	1975	15.2
322	46.6	4	86.0	65.0	2110	17.9
312	37.2	4	86.0	65.0	2019	16.4
344	39.0	4	86.0	64.0	1875	16.4
52	30.0	4	88.0	76.0	2065	14.5
332	29.8	4	89.0	62.0	1845	15.3
348	37.7	4	89.0	62.0	2050	17.3
278	31.5	4	89.0	71.0	1990	14.9
310	38.1	4	89.0	60.0	1968	18.8
293	31.9	4	89.0	71.0	1925	14.0
326	43.4	4	90.0	48.0	2335	23.7
244	43.1	4	90.0	48.0	1985	21.5
197	29.0	4	90.0	70.0	1937	14.2

175	29.0	4	90.0	70.0	1937	14.0
172	25.0	4	90.0	71.0	2223	16.5
147	24.0	4	90.0	75.0	2108	15.5
146	28.0	4	90.0	75.0	2125	14.5
325	44.3	4	90.0	48.0	2085	21.7
304	37.3	4	91.0	69.0	2130	14.7
248	36.1	4	91.0	60.0	1800	16.4
181	33.0	4	91.0	53.0	1795	17.5
56	26.0	4	91.0	70.0	1955	20.5
198	33.0	4	91.0	53.0	1795	17.4
385	38.0	4	91.0	67.0	1995	16.2
349	34.1	4	91.0	68.0	1985	16.0
384	32.0	4	91.0	67.0	1965	15.7
383	38.0	4	91.0	67.0	1965	15.0
377	31.0	4	91.0	68.0	1970	17.6
376	37.0	4	91.0	68.0	2025	18.2
329	44.6	4	91.0	67.0	1850	13.8
79	26.0	4	96.0	69.0	2189	18.0
84	27.0	4	97.0	88.0	2100	16.5
19	26.0	4	97.0	46.0	1835	20.5
18	27.0	4	97.0	88.0	2130	14.5
240	30.5	4	97.0	78.0	2190	14.1
235	26.0	4	97.0	75.0	2265	18.2
233	29.0	4	97.0	78.0	1940	14.5

331	33.8	4	97.0	67.0	2145	18.0
102	26.0	4	97.0	46.0	1950	21.0
81	28.0	4	97.0	92.0	2288	17.0
108	20.0	4	97.0	88.0	2279	19.0
167	29.0	4	97.0	75.0	2171	16.0
394	44.0	4	97.0	52.0	2130	24.6
143	26.0	4	97.0	78.0	2300	14.5
205	28.0	4	97.0	75.0	2155	16.4
203	29.5	4	97.0	71.0	1825	12.2
239	30.0	4	97.0	67.0	1985	16.4
59	23.0	4	97.0	54.0	2254	23.5
346	32.3	4	97.0	67.0	2065	17.8
55	27.0	4	97.0	60.0	1834	19.0
29	27.0	4	97.0	88.0	2130	14.5
317	34.3	4	97.0	78.0	2188	15.8
58	25.0	4	97.5	80.0	2126	17.0
237	30.5	4	98.0	63.0	2051	17.0
238	33.5	4	98.0	83.0	2075	15.9
309	41.5	4	98.0	76.0	2144	14.7
351	34.4	4	98.0	65.0	2045	16.2
352	29.9	4	98.0	65.0	2380	20.7
245	36.1	4	98.0	66.0	1800	14.4
295	35.7	4	98.0	80.0	1915	14.4
141	29.0	4	98.0	83.0	2219	16.5

311	32.1	4	98.0	70.0	2120	15.5
83	28.0	4	98.0	80.0	2164	15.0
266	30.0	4	98.0	68.0	2155	16.5
185	26.0	4	98.0	79.0	2255	17.7
114	26.0	4	98.0	90.0	2265	15.5
379	36.0	4	98.0	70.0	2125	17.3
32	25.0	4	98.0	NaN	2046	19.0
279	29.5	4	98.0	68.0	2135	16.6
196	24.5	4	98.0	60.0	2164	22.1
216	31.5	4	98.0	68.0	2045	18.5
354	34.5	4	100.0	NaN	2320	15.8
186	27.0	4	101.0	83.0	2202	15.3
22	25.0	4	104.0	95.0	2375	17.5
301	34.2	4	105.0	70.0	2200	13.2
378	38.0	4	105.0	63.0	2125	14.7
269	30.9	4	105.0	75.0	2230	14.5
302	34.5	4	105.0	70.0	2150	14.9
375	36.0	4	105.0	74.0	1980	15.3
353	33.0	4	105.0	74.0	2190	14.2
350	34.7	4	105.0	63.0	2215	14.9
21	24.0	4	107.0	90.0	2430	14.5
355	33.7	4	107.0	75.0	2210	14.4
337	32.4	4	107.0	72.0	2290	17.0
381	36.0	4	107.0	75.0	2205	14.5

182	28.0	4	107.0	86.0	2464	15.5
150	26.0	4	108.0	93.0	2391	15.5
382	34.0	4	108.0	70.0	2245	16.9
356	32.4	4	108.0	75.0	2350	16.8
321	32.2	4	108.0	75.0	2265	15.2
110	22.0	4	108.0	94.0	2379	16.5
20	25.0	4	110.0	87.0	2672	17.5
217	30.0	4	111.0	80.0	2155	14.8
369	34.0	4	112.0	88.0	2395	18.0
368	27.0	4	112.0	88.0	2640	18.6
370	31.0	4	112.0	85.0	2575	16.2
367	28.0	4	112.0	88.0	2605	19.6
57	24.0	4	113.0	95.0	2278	15.5
31	25.0	4	113.0	95.0	2228	14.0
14	24.0	4	113.0	95.0	2372	15.0
119	20.0	4	114.0	91.0	2582	14.0
177	23.0	4	115.0	95.0	2694	15.0
148	26.0	4	116.0	75.0	2246	14.0
118	24.0	4	116.0	75.0	2158	15.5
50	28.0	4	116.0	90.0	2123	14.0
183	25.0	4	116.0	81.0	2220	16.9
268	27.2	4	119.0	97.0	2300	14.7
273	23.9	4	119.0	97.0	2405	14.9
320	37.0	4	119.0	92.0	2434	15.0

357	32.9	4	119.0	100.0	2615	14.8
173	24.0	4	119.0	97.0	2545	17.0
397	31.0	4	119.0	82.0	2720	19.4
209	19.0	4	120.0	88.0	3270	21.9
82	23.0	4	120.0	97.0	2506	14.5
78	21.0	4	120.0	87.0	2979	19.5
380	36.0	4	120.0	88.0	2160	14.5
149	24.0	4	120.0	97.0	2489	15.0
396	28.0	4	120.0	79.0	2625	18.6
358	31.6	4	120.0	74.0	2635	18.3
178	23.0	4	120.0	88.0	2957	17.0
319	31.3	4	120.0	75.0	2542	17.5
76	18.0	4	121.0	112.0	2933	14.5
180	25.0	4	121.0	115.0	2671	13.5
23	26.0	4	121.0	113.0	2234	12.5
179	22.0	4	121.0	98.0	2945	14.5
327	36.4	5	121.0	67.0	2950	19.9
77	22.0	4	121.0	76.0	2511	18.0
122	24.0	4	121.0	110.0	2660	14.0
120	19.0	4	121.0	112.0	2868	15.5
242	21.5	4	121.0	110.0	2600	12.8
296	27.4	4	121.0	80.0	2670	15.0
276	21.6	4	121.0	115.0	2795	15.7
49	23.0	4	122.0	86.0	2220	14.0

112	19.0	4	122.0	85.0	2310	18.5
80	22.0	4	122.0	86.0	2395	16.0
219	25.5	4	122.0	96.0	2300	15.5
130	26.0	4	122.0	80.0	2451	16.5
335	35.0	4	122.0	88.0	2500	15.1
61	21.0	4	122.0	86.0	2226	16.5
207	20.0	4	130.0	102.0	3150	15.7
274	20.3	5	131.0	103.0	2830	15.9
270	21.1	4	134.0	95.0	2515	14.8
318	29.8	4	134.0	90.0	2711	15.5
171	24.0	4	134.0	96.0	2702	13.5
267	27.5	4	134.0	95.0	2560	14.2
395	32.0	4	135.0	84.0	2295	11.6
342	30.0	4	135.0	84.0	2385	12.9
371	29.0	4	135.0	84.0	2525	16.0
391	36.0	4	135.0	84.0	2370	13.0
338	27.2	4	135.0	84.0	2490	15.7
30	28.0	4	140.0	90.0	2264	15.5
170	23.0	4	140.0	78.0	2592	18.5
393	27.0	4	140.0	86.0	2790	15.6
236	25.5	4	140.0	89.0	2755	15.8
60	20.0	4	140.0	90.0	2408	19.5
132	25.0	4	140.0	75.0	2542	17.0
282	22.3	4	140.0	88.0	2890	17.3

206	26.5	4	140.0	72.0	2565	13.6
373	24.0	4	140.0	92.0	2865	16.4
336	23.6	4	140.0	NaN	2905	14.3
255	25.1	4	140.0	88.0	2720	15.4
168	23.0	4	140.0	83.0	2639	17.0
109	21.0	4	140.0	72.0	2401	19.5
184	25.0	4	140.0	92.0	2572	14.9
46	22.0	4	140.0	72.0	2408	19.0
314	26.4	4	140.0	88.0	2870	18.1
299	27.2	4	141.0	71.0	3190	24.8
359	28.1	4	141.0	80.0	3230	20.4
390	32.0	4	144.0	96.0	2665	13.9
360	30.7	6	145.0	76.0	3160	19.6
241	22.0	6	146.0	97.0	2815	14.5
362	24.2	6	146.0	120.0	2930	13.8
328	30.0	4	146.0	67.0	3250	21.8
313	28.0	4	151.0	90.0	2678	16.5
372	27.0	4	151.0	90.0	2735	18.0
392	27.0	4	151.0	90.0	2950	17.3
234	24.5	4	151.0	88.0	2740	16.0
315	24.3	4	151.0	90.0	3003	20.1
308	33.5	4	151.0	90.0	2556	13.2
374	23.0	4	151.0	NaN	3035	20.5
339	26.6	4	151.0	84.0	2635	16.4

272	23.8	4	151.0	85.0	2855	17.6
305	28.4	4	151.0	90.0	2670	16.0
113	21.0	6	155.0	107.0	2472	14.0
123	20.0	6	156.0	122.0	2807	13.5
271	23.2	4	156.0	105.0	2745	16.7
323	27.9	4	156.0	105.0	2800	14.4
340	25.8	4	156.0	92.0	2620	14.4
210	19.0	6	156.0	108.0	2930	15.5
388	26.0	4	156.0	92.0	2585	14.5
275	17.0	6	163.0	125.0	3140	13.6
277	16.2	6	163.0	133.0	3410	15.8
211	16.5	6	168.0	120.0	3820	16.7
361	25.4	6	168.0	116.0	2900	12.6
333	32.7	6	168.0	132.0	2910	11.4
174	18.0	6	171.0	97.0	2984	14.5
341	23.5	6	173.0	110.0	2725	12.6
306	28.8	6	173.0	115.0	2595	11.3
307	26.8	6	173.0	115.0	2700	12.9
386	25.0	6	181.0	110.0	2945	16.4
297	25.4	5	183.0	77.0	3530	20.1
125	20.0	6	198.0	95.0	3102	16.5
15	22.0	6	198.0	95.0	2833	15.5
101	23.0	6	198.0	95.0	2904	16.0
24	21.0	6	199.0	90.0	2648	15.0

16	18.0	6	199.0	97.0	2774	15.5
365	20.2	6	200.0	88.0	3060	17.1
253	20.5	6	200.0	95.0	3155	18.2
259	20.8	6	200.0	85.0	3070	16.7
193	24.0	6	200.0	81.0	3012	17.6
126	21.0	6	200.0	NaN	2875	17.0
17	21.0	6	200.0	85.0	2587	16.0
281	19.8	6	200.0	85.0	2990	18.2
254	20.2	6	200.0	85.0	2965	15.8
284	20.6	6	225.0	110.0	3360	16.6
316	19.1	6	225.0	90.0	3381	18.7
256	20.5	6	225.0	100.0	3430	17.2
34	16.0	6	225.0	105.0	3439	15.5
227	19.0	6	225.0	100.0	3630	17.7
260	18.6	6	225.0	110.0	3620	18.7
199	20.0	6	225.0	100.0	3651	17.7
152	19.0	6	225.0	95.0	3264	16.0
366	17.6	6	225.0	85.0	3465	16.6
135	18.0	6	225.0	105.0	3613	16.5
163	18.0	6	225.0	95.0	3785	19.0
97	18.0	6	225.0	105.0	3121	16.5
191	22.0	6	225.0	100.0	3233	15.4
280	21.5	6	231.0	115.0	3245	15.4
258	20.6	6	231.0	105.0	3380	15.8

263	17.7	6	231.0	165.0	3445	13.4
363	22.4	6	231.0	110.0	3415	15.8
160	17.0	6	231.0	110.0	3907	21.0
164	21.0	6	231.0	110.0	3039	15.0
252	19.2	6	231.0	105.0	3535	19.2
226	20.5	6	231.0	105.0	3425	16.9
389	22.0	6	232.0	112.0	2835	14.7
176	19.0	6	232.0	90.0	3211	17.0
194	22.5	6	232.0	90.0	3085	17.6
107	18.0	6	232.0	100.0	2789	15.0
99	18.0	6	232.0	100.0	2945	16.0
283	20.2	6	232.0	90.0	3265	18.2
37	18.0	6	232.0	100.0	3288	15.5
127	19.0	6	232.0	100.0	2901	16.0
257	19.4	6	232.0	90.0	3210	17.2
169	20.0	6	232.0	100.0	2914	16.0
33	19.0	6	232.0	100.0	2634	13.0
48	18.0	6	250.0	88.0	3139	14.5
47	19.0	6	250.0	100.0	3282	15.0
192	22.0	6	250.0	105.0	3353	14.5
161	16.0	6	250.0	105.0	3897	18.5
200	18.0	6	250.0	78.0	3574	21.0
201	18.5	6	250.0	110.0	3645	16.2
100	18.0	6	250.0	88.0	3021	16.5

35	17.0	6	250.0	100.0	3329	15.5
98	16.0	6	250.0	100.0	3278	18.0
133	16.0	6	250.0	100.0	3781	17.0
154	15.0	6	250.0	72.0	3432	21.0
155	15.0	6	250.0	72.0	3158	19.5
228	18.5	6	250.0	98.0	3525	19.0
153	18.0	6	250.0	105.0	3459	16.0
225	17.5	6	250.0	110.0	3520	16.4
128	15.0	6	250.0	100.0	3336	17.0
36	19.0	6	250.0	88.0	3302	15.5
45	18.0	6	258.0	110.0	2962	13.5
261	18.1	6	258.0	120.0	3410	15.1
202	17.5	6	258.0	95.0	3193	17.8
162	15.0	6	258.0	110.0	3730	19.0
134	16.0	6	258.0	110.0	3632	18.0
249	19.9	8	260.0	110.0	3365	15.5
300	23.9	8	260.0	90.0	3420	22.2
222	17.0	8	260.0	110.0	4060	19.0
387	38.0	6	262.0	85.0	3015	17.0
165	20.0	8	262.0	110.0	3221	13.5
291	19.2	8	267.0	125.0	3605	15.0
74	13.0	8	302.0	140.0	4294	16.0
139	14.0	8	302.0	140.0	4638	16.0
4	17.0	8	302.0	140.0	3449	10.5

136	16.0	8	302.0	140.0	4141	14.0
214	13.0	8	302.0	130.0	3870	15.0
224	15.0	8	302.0	130.0	4295	14.9
251	20.2	8	302.0	139.0	3570	12.8
264	18.1	8	302.0	139.0	3205	11.2
166	13.0	8	302.0	129.0	3169	12.0
88	14.0	8	302.0	137.0	4042	14.5
286	17.6	8	302.0	129.0	3725	13.4
72	15.0	8	304.0	150.0	3892	12.5
140	14.0	8	304.0	150.0	4257	15.5
66	17.0	8	304.0	150.0	3672	11.5
189	15.5	8	304.0	120.0	3962	13.9
3	16.0	8	304.0	150.0	3433	12.0
86	14.0	8	304.0	150.0	3672	11.5
28	9.0	8	304.0	193.0	4732	18.5
285	17.0	8	305.0	130.0	3840	15.4
187	17.5	8	305.0	140.0	4215	13.0
262	19.2	8	305.0	145.0	3425	13.2
221	17.5	8	305.0	145.0	3880	12.5
26	10.0	8	307.0	200.0	4376	15.0
0	18.0	8	307.0	130.0	3504	12.0
73	13.0	8	307.0	130.0	4098	14.0
75	14.0	8	318.0	150.0	4077	14.0
89	15.0	8	318.0	150.0	3777	12.5

27	11.0	8	318.0	210.0	4382	13.5
288	18.2	8	318.0	135.0	3830	15.2
188	16.0	8	318.0	150.0	4190	13.0
2	18.0	8	318.0	150.0	3436	11.0
121	15.0	8	318.0	150.0	3399	11.0
93	14.0	8	318.0	150.0	4237	14.5
265	17.5	8	318.0	140.0	4080	13.7
138	14.0	8	318.0	150.0	4457	13.5
158	16.0	8	318.0	150.0	4498	14.5
208	13.0	8	318.0	150.0	3940	13.2
223	15.5	8	318.0	145.0	4140	13.7
215	13.0	8	318.0	150.0	3755	14.0
64	15.0	8	318.0	150.0	4135	13.5
41	14.0	8	318.0	150.0	4096	13.0
250	19.4	8	318.0	140.0	3735	13.2
11	14.0	8	340.0	160.0	3609	8.0
106	12.0	8	350.0	180.0	4499	12.5
62	13.0	8	350.0	165.0	4274	12.0
230	15.5	8	350.0	170.0	4165	11.4
364	26.6	8	350.0	105.0	3725	19.0
87	13.0	8	350.0	145.0	3988	13.0
85	13.0	8	350.0	175.0	4100	13.0
137	13.0	8	350.0	150.0	4699	14.5
38	14.0	8	350.0	165.0	4209	12.0

1	15.0	8	350.0	165.0	3693	11.5
68	13.0	8	350.0	155.0	4502	13.5
69	12.0	8	350.0	160.0	4456	13.5
157	15.0	8	350.0	145.0	4440	14.0
124	11.0	8	350.0	180.0	3664	11.0
213	13.0	8	350.0	145.0	4055	12.0
298	23.0	8	350.0	125.0	3900	17.4
212	16.5	8	350.0	180.0	4380	12.1
289	16.9	8	350.0	155.0	4360	14.9
115	15.0	8	350.0	145.0	4082	13.0
92	13.0	8	351.0	158.0	4363	13.0
190	14.5	8	351.0	152.0	4215	12.8
232	16.0	8	351.0	149.0	4335	14.5
159	14.0	8	351.0	148.0	4657	13.5
290	15.5	8	351.0	142.0	4054	14.3
287	16.5	8	351.0	138.0	3955	13.2
65	14.0	8	351.0	153.0	4129	13.0
40	14.0	8	351.0	153.0	4154	13.5
105	13.0	8	360.0	170.0	4654	13.0
96	13.0	8	360.0	175.0	3821	11.0
292	18.5	8	360.0	150.0	3940	13.0
25	10.0	8	360.0	215.0	4615	14.0
42	12.0	8	383.0	180.0	4955	11.5
10	15.0	8	383.0	170.0	3563	10.0

9	15.0	8	390.0	190.0	3850	8.5
91	13.0	8	400.0	150.0	4464	12.0
156	16.0	8	400.0	170.0	4668	11.5
44	13.0	8	400.0	175.0	5140	12.0
43	13.0	8	400.0	170.0	4746	12.0
70	13.0	8	400.0	190.0	4422	12.5
116	16.0	8	400.0	230.0	4278	9.5
39	14.0	8	400.0	175.0	4464	11.5
12	15.0	8	400.0	150.0	3761	9.5
63	14.0	8	400.0	175.0	4385	12.0
231	15.5	8	400.0	190.0	4325	12.2
104	12.0	8	400.0	167.0	4906	12.5
103	11.0	8	400.0	150.0	4997	14.0
229	16.0	8	400.0	180.0	4220	11.1
5	15.0	8	429.0	198.0	4341	10.0
90	12.0	8	429.0	198.0	4952	11.5
67	11.0	8	429.0	208.0	4633	11.0
7	14.0	8	440.0	215.0	4312	8.5
94	13.0	8	440.0	215.0	4735	11.0
6	14.0	8	454.0	220.0	4354	9.0
95	12.0	8	455.0	225.0	4951	11.0
8	14.0	8	455.0	225.0	4425	10.0
13	14.0	8	455.0	225.0	3086	10.0

model_year origin

name

117	73	europa	fiat 128
71	72	japan	mazda rx2 coupe
111	73	japan	maxda rx3
334	80	japan	mazda rx-7 gs
131	74	japan	toyota corolla 1200
53	71	japan	toyota corolla 1200
54	71	japan	datsum 1200
144	74	japan	toyota corona
246	78	japan	mazda glc deluxe
142	74	europa	volkswagen dasher
343	81	japan	toyota starlet
51	71	europa	peugeot 304
218	77	europa	renault 5 gtl
151	74	europa	fiat x1.9
129	74	japan	datsum b210
243	77	japan	mazda rx-4
345	81	japan	honda civic 1300
145	74	japan	datsum 710
195	76	usa	chevrolet chevette
347	81	japan	datsum 210 mpg
324	80	japan	datsum 210
303	79	japan	datsum 210
330	80	europa	renault lecar deluxe
220	77	japan	datsum f-10 hatchback
204	76	japan	datsum b-210
247	78	japan	datsum b210 gx
294	79	japan	maxda glc deluxe
322	80	japan	mazda glc
312	80	japan	datsum 310
344	81	usa	plymouth champ
52	71	europa	fiat 124b
332	80	europa	volkswagen rabbit
348	81	japan	toyota tercel
278	78	europa	volkswagen scirocco
310	80	japan	toyota corolla tercel
293	79	europa	vw rabbit custom
326	80	europa	vw dasher (diesel)
244	78	europa	volkswagen rabbit custom diesel
197	76	europa	vw rabbit
175	75	europa	volkswagen rabbit
172	75	europa	volkswagen dasher
147	74	europa	fiat 128
146	74	usa	dodge colt
325	80	europa	vw rabbit c (diesel)
304	79	europa	fiat strada custom
248	78	japan	honda civic cvcc
181	75	japan	honda civic cvcc
56	71	usa	plymouth cricket
198	76	japan	honda civic
385	82	japan	datsum 310 gx

349	81	japan	mazda glc 4
384	82	japan	honda civic (auto)
383	82	japan	honda civic
377	82	japan	mazda glc custom
376	82	japan	mazda glc custom l
329	80	japan	honda civic 1500 gl
79	72	europe	renault 12 (sw)
84	72	japan	toyota corolla 1600 (sw)
19	70	europe	volkswagen 1131 deluxe sedan
18	70	japan	datsum pl510
240	77	europe	volkswagen dasher
235	77	japan	toyota corolla liftback
233	77	europe	volkswagen rabbit custom
331	80	japan	subaru dl
102	73	europe	volkswagen super beetle
81	72	japan	datsum 510 (sw)
108	73	japan	toyota carina
167	75	japan	toyota corolla
394	82	europe	vw pickup
143	74	europe	opel manta
205	76	japan	toyota corolla
203	76	europe	volkswagen rabbit
239	77	japan	subaru dl
59	72	europe	volkswagen type 3
346	81	japan	subaru
55	71	europe	volkswagen model 111
29	71	japan	datsum pl510
317	80	europe	audi 4000
58	72	usa	dodge colt hardtop
237	77	usa	chevrolet chevette
238	77	usa	dodge colt m/m
309	80	europe	vw rabbit
351	81	usa	ford escort 4w
352	81	usa	ford escort 2h
245	78	usa	ford fiesta
295	79	usa	dodge colt hatchback custom
141	74	europe	audi fox
311	80	usa	chevrolet chevette
83	72	usa	dodge colt (sw)
266	78	usa	chevrolet chevette
185	76	usa	dodge colt
114	73	europe	fiat 124 sport coupe
379	82	usa	mercury lynx l
32	71	usa	ford pinto
279	78	japan	honda accord lx
196	76	usa	chevrolet woody
216	77	japan	honda accord cvcc
354	81	europe	renault 18i
186	76	europe	renault 12tl
22	70	europe	saab 99e

301	79	usa	plymouth horizon
378	82	usa	plymouth horizon miser
269	78	usa	dodge omni
302	79	usa	plymouth horizon tc3
375	82	europe	volkswagen rabbit l
353	81	europe	volkswagen jetta
350	81	usa	plymouth horizon 4
21	70	europe	audi 100 ls
355	81	japan	honda prelude
337	80	japan	honda accord
381	82	japan	honda accord
182	76	europe	fiat 131
150	74	japan	subaru
382	82	japan	toyota corolla
356	81	japan	toyota corolla
321	80	japan	toyota corolla
110	73	japan	datsum 610
20	70	europe	peugeot 504
217	77	usa	buick opel isuzu deluxe
369	82	usa	chevrolet cavalier 2-door
368	82	usa	chevrolet cavalier wagon
370	82	usa	pontiac j2000 se hatchback
367	82	usa	chevrolet cavalier
57	72	japan	toyota corona hardtop
31	71	japan	toyota corona
14	70	japan	toyota corona mark ii
119	73	europe	audi 100ls
177	75	europe	audi 100ls
148	74	europe	fiat 124 tc
118	73	europe	opel manta
50	71	europe	opel 1900
183	76	europe	opel 1900
268	78	japan	datsum 510
273	78	japan	datsum 200-sx
320	80	japan	datsum 510 hatchback
357	81	japan	datsum 200sx
173	75	japan	datsum 710
397	82	usa	chevy s-10
209	76	europe	peugeot 504
82	72	japan	toyouta corona mark ii (sw)
78	72	europe	peugeot 504 (sw)
380	82	japan	nissan stanza xe
149	74	japan	honda civic
396	82	usa	ford ranger
358	81	japan	mazda 626
178	75	europe	peugeot 504
319	80	japan	mazda 626
76	72	europe	volvo 145e (sw)
180	75	europe	saab 99le
23	70	europe	bmw 2002

179	75	europa	volvo 244dl
327	80	europa	audi 5000s (diesel)
77	72	europa	volkswagen 411 (sw)
122	73	europa	saab 99le
120	73	europa	volvo 144ea
242	77	europa	bmw 320i
296	79	usa	amc spirit dl
276	78	europa	saab 99gle
49	71	usa	mercury capri 2000
112	73	usa	ford pinto
80	72	usa	ford pinto (sw)
219	77	usa	plymouth arrow gs
130	74	usa	ford pinto
335	80	europa	triumph tr7 coupe
61	72	usa	ford pinto runabout
207	76	europa	volvo 245
274	78	europa	audi 5000
270	78	japan	toyota celica gt liftback
318	80	japan	toyota corona liftback
171	75	japan	toyota corona
267	78	japan	toyota corona
395	82	usa	dodge rampage
342	81	usa	plymouth reliant
371	82	usa	dodge aries se
391	82	usa	dodge charger 2.2
338	81	usa	plymouth reliant
30	71	usa	chevrolet vega 2300
170	75	usa	pontiac astro
393	82	usa	ford mustang gl
236	77	usa	ford mustang ii 2+2
60	72	usa	chevrolet vega
132	74	usa	chevrolet vega
282	79	usa	ford fairmont 4
206	76	usa	ford pinto
373	82	usa	ford fairmont futura
336	80	usa	ford mustang cobra
255	78	usa	ford fairmont (man)
168	75	usa	ford pinto
109	73	usa	chevrolet vega
184	76	usa	capri ii
46	71	usa	chevrolet vega (sw)
314	80	usa	ford fairmont
299	79	europa	peugeot 504
359	81	europa	peugeot 505s turbo diesel
390	82	japan	toyota celica gt
360	81	europa	volvo diesel
241	77	japan	datsum 810
362	81	japan	datsum 810 maxima
328	80	europa	mercedes-benz 240d
313	80	usa	chevrolet citation

372	82	usa	pontiac phoenix
392	82	usa	chevrolet camaro
234	77	usa	pontiac sunbird coupe
315	80	usa	amc concord
308	79	usa	pontiac phoenix
374	82	usa	amc concord dl
339	81	usa	buick skylark
272	78	usa	oldsmobile starfire sx
305	79	usa	buick skylark limited
113	73	usa	mercury capri v6
123	73	japan	toyota mark ii
271	78	usa	plymouth sapporo
323	80	usa	dodge colt
340	81	usa	dodge aries wagon (sw)
210	76	japan	toyota mark ii
388	82	usa	chrysler lebaron medallion
275	78	europe	volvo 264gl
277	78	europe	peugeot 604sl
211	76	europe	mercedes-benz 280s
361	81	japan	toyota cressida
333	80	japan	datson 280-zx
174	75	usa	ford pinto
341	81	usa	chevrolet citation
306	79	usa	chevrolet citation
307	79	usa	oldsmobile omega brougham
386	82	usa	buick century limited
297	79	europe	mercedes benz 300d
125	74	usa	plymouth duster
15	70	usa	plymouth duster
101	73	usa	plymouth duster
24	70	usa	amc gremlin
16	70	usa	amc hornet
365	81	usa	ford granada gl
253	78	usa	chevrolet malibu
259	78	usa	mercury zephyr
193	76	usa	ford maverick
126	74	usa	ford maverick
17	70	usa	ford maverick
281	79	usa	mercury zephyr 6
254	78	usa	ford fairmont (auto)
284	79	usa	dodge aspen 6
316	80	usa	dodge aspen
256	78	usa	plymouth volare
34	71	usa	plymouth satellite custom
227	77	usa	plymouth volare custom
260	78	usa	dodge aspen
199	76	usa	dodge aspen se
152	75	usa	plymouth valiant custom
366	81	usa	chrysler lebaron salon
135	74	usa	plymouth satellite sebring

163	75	usa	plymouth fury
97	73	usa	plymouth valiant
191	76	usa	plymouth valiant
280	79	usa	pontiac lemans v6
258	78	usa	buick century special
263	78	usa	buick regal sport coupe (turbo)
363	81	usa	buick century
160	75	usa	buick century
164	75	usa	buick skyhawk
252	78	usa	pontiac phoenix lj
226	77	usa	buick skylark
389	82	usa	ford granada l
176	75	usa	amc pacer
194	76	usa	amc hornet
107	73	usa	amc gremlin
99	73	usa	amc hornet
283	79	usa	amc concord dl 6
37	71	usa	amc matador
127	74	usa	amc hornet
257	78	usa	amc concord
169	75	usa	amc gremlin
33	71	usa	amc gremlin
48	71	usa	ford mustang
47	71	usa	pontiac firebird
192	76	usa	chevrolet nova
161	75	usa	chevrolet chevelle malibu
200	76	usa	ford granada ghia
201	76	usa	pontiac ventura sj
100	73	usa	ford maverick
35	71	usa	chevrolet chevelle malibu
98	73	usa	chevrolet nova custom
133	74	usa	chevrolet chevelle malibu classic
154	75	usa	mercury monarch
155	75	usa	ford maverick
228	77	usa	ford granada
153	75	usa	chevrolet nova
225	77	usa	chevrolet concours
128	74	usa	chevrolet nova
36	71	usa	ford torino 500
45	71	usa	amc hornet sportabout (sw)
261	78	usa	amc concord d/l
202	76	usa	amc pacer d/l
162	75	usa	amc matador
134	74	usa	amc matador
249	78	usa	oldsmobile cutlass salon brougham
300	79	usa	oldsmobile cutlass salon brougham
222	77	usa	oldsmobile cutlass supreme
387	82	usa	oldsmobile cutlass ciera (diesel)
165	75	usa	chevrolet monza 2+2
291	79	usa	chevrolet malibu classic (sw)

74	72	usa	ford gran torino (sw)
139	74	usa	ford gran torino (sw)
4	70	usa	ford torino
136	74	usa	ford gran torino
214	76	usa	ford f108
224	77	usa	mercury cougar brougham
251	78	usa	mercury monarch ghia
264	78	usa	ford futura
166	75	usa	ford mustang ii
88	73	usa	ford gran torino
286	79	usa	ford ltd landau
72	72	usa	amc matador (sw)
140	74	usa	amc matador (sw)
66	72	usa	amc ambassador sst
189	76	usa	amc matador
3	70	usa	amc rebel sst
86	73	usa	amc matador
28	70	usa	hi 1200d
285	79	usa	chevrolet caprice classic
187	76	usa	chevrolet chevelle malibu classic
262	78	usa	chevrolet monte carlo landau
221	77	usa	chevrolet caprice classic
26	70	usa	chevy c20
0	70	usa	chevrolet chevelle malibu
73	72	usa	chevrolet chevelle concours (sw)
75	72	usa	plymouth satellite custom (sw)
89	73	usa	dodge coronet custom
27	70	usa	dodge d200
288	79	usa	dodge st. regis
188	76	usa	dodge coronet brougham
2	70	usa	plymouth satellite
121	73	usa	dodge dart custom
93	73	usa	plymouth fury gran sedan
265	78	usa	dodge magnum xe
138	74	usa	dodge coronet custom (sw)
158	75	usa	plymouth grand fury
208	76	usa	plymouth volare premier v8
223	77	usa	dodge monaco brougham
215	76	usa	dodge d100
64	72	usa	plymouth fury iii
41	71	usa	plymouth fury iii
250	78	usa	dodge diplomat
11	70	usa	plymouth 'cuda 340
106	73	usa	oldsmobile vista cruiser
62	72	usa	chevrolet impala
230	77	usa	chevrolet monte carlo landau
364	81	usa	oldsmobile cutlass ls
87	73	usa	chevrolet malibu
85	73	usa	buick century 350
137	74	usa	buick century luxus (sw)

38	71	usa	chevrolet impala
1	70	usa	buick skylark 320
68	72	usa	buick lesabre custom
69	72	usa	oldsmobile delta 88 royale
157	75	usa	chevrolet bel air
124	73	usa	oldsmobile omega
213	76	usa	chevy c10
298	79	usa	cadillac eldorado
212	76	usa	cadillac seville
289	79	usa	buick estate wagon (sw)
115	73	usa	chevrolet monte carlo s
92	73	usa	ford ltd
190	76	usa	ford gran torino
232	77	usa	ford thunderbird
159	75	usa	ford ltd
290	79	usa	ford country squire (sw)
287	79	usa	mercury grand marquis
65	72	usa	ford galaxie 500
40	71	usa	ford galaxie 500
105	73	usa	plymouth custom suburb
96	73	usa	amc ambassador brougham
292	79	usa	chrysler lebaron town @ country (sw)
25	70	usa	ford f250
42	71	usa	dodge monaco (sw)
10	70	usa	dodge challenger se
9	70	usa	amc ambassador dpl
91	73	usa	chevrolet caprice classic
156	75	usa	pontiac catalina
44	71	usa	pontiac safari (sw)
43	71	usa	ford country squire (sw)
70	72	usa	chrysler newport royal
116	73	usa	pontiac grand prix
39	71	usa	pontiac catalina brougham
12	70	usa	chevrolet monte carlo
63	72	usa	pontiac catalina
231	77	usa	chrysler cordoba
104	73	usa	ford country
103	73	usa	chevrolet impala
229	77	usa	pontiac grand prix lj
5	70	usa	ford galaxie 500
90	73	usa	mercury marquis brougham
67	72	usa	mercury marquis
7	70	usa	plymouth fury iii
94	73	usa	chrysler new yorker brougham
6	70	usa	chevrolet impala
95	73	usa	buick electra 225 custom
8	70	usa	pontiac catalina
13	70	usa	buick estate wagon (sw)

```
car.sort_values('displacement',ascending=False)
```

	mpg	cylinders	displacement	horsepower	weight	
acceleration \						
8	14.0	8	455.0	225.0	4425	10.0
95	12.0	8	455.0	225.0	4951	11.0
13	14.0	8	455.0	225.0	3086	10.0
6	14.0	8	454.0	220.0	4354	9.0
7	14.0	8	440.0	215.0	4312	8.5
94	13.0	8	440.0	215.0	4735	11.0
90	12.0	8	429.0	198.0	4952	11.5
67	11.0	8	429.0	208.0	4633	11.0
5	15.0	8	429.0	198.0	4341	10.0
39	14.0	8	400.0	175.0	4464	11.5
44	13.0	8	400.0	175.0	5140	12.0
116	16.0	8	400.0	230.0	4278	9.5
63	14.0	8	400.0	175.0	4385	12.0
70	13.0	8	400.0	190.0	4422	12.5
229	16.0	8	400.0	180.0	4220	11.1
43	13.0	8	400.0	170.0	4746	12.0
156	16.0	8	400.0	170.0	4668	11.5
91	13.0	8	400.0	150.0	4464	12.0
231	15.5	8	400.0	190.0	4325	12.2
104	12.0	8	400.0	167.0	4906	12.5
103	11.0	8	400.0	150.0	4997	14.0
12	15.0	8	400.0	150.0	3761	9.5

9	15.0	8	390.0	190.0	3850	8.5
10	15.0	8	383.0	170.0	3563	10.0
42	12.0	8	383.0	180.0	4955	11.5
292	18.5	8	360.0	150.0	3940	13.0
25	10.0	8	360.0	215.0	4615	14.0
105	13.0	8	360.0	170.0	4654	13.0
96	13.0	8	360.0	175.0	3821	11.0
92	13.0	8	351.0	158.0	4363	13.0
40	14.0	8	351.0	153.0	4154	13.5
232	16.0	8	351.0	149.0	4335	14.5
65	14.0	8	351.0	153.0	4129	13.0
190	14.5	8	351.0	152.0	4215	12.8
159	14.0	8	351.0	148.0	4657	13.5
290	15.5	8	351.0	142.0	4054	14.3
287	16.5	8	351.0	138.0	3955	13.2
115	15.0	8	350.0	145.0	4082	13.0
69	12.0	8	350.0	160.0	4456	13.5
124	11.0	8	350.0	180.0	3664	11.0
213	13.0	8	350.0	145.0	4055	12.0
68	13.0	8	350.0	155.0	4502	13.5
1	15.0	8	350.0	165.0	3693	11.5
212	16.5	8	350.0	180.0	4380	12.1
62	13.0	8	350.0	165.0	4274	12.0
230	15.5	8	350.0	170.0	4165	11.4

298	23.0	8	350.0	125.0	3900	17.4
137	13.0	8	350.0	150.0	4699	14.5
157	15.0	8	350.0	145.0	4440	14.0
106	12.0	8	350.0	180.0	4499	12.5
85	13.0	8	350.0	175.0	4100	13.0
87	13.0	8	350.0	145.0	3988	13.0
38	14.0	8	350.0	165.0	4209	12.0
289	16.9	8	350.0	155.0	4360	14.9
364	26.6	8	350.0	105.0	3725	19.0
11	14.0	8	340.0	160.0	3609	8.0
64	15.0	8	318.0	150.0	4135	13.5
89	15.0	8	318.0	150.0	3777	12.5
93	14.0	8	318.0	150.0	4237	14.5
215	13.0	8	318.0	150.0	3755	14.0
250	19.4	8	318.0	140.0	3735	13.2
75	14.0	8	318.0	150.0	4077	14.0
265	17.5	8	318.0	140.0	4080	13.7
223	15.5	8	318.0	145.0	4140	13.7
41	14.0	8	318.0	150.0	4096	13.0
2	18.0	8	318.0	150.0	3436	11.0
121	15.0	8	318.0	150.0	3399	11.0
158	16.0	8	318.0	150.0	4498	14.5
27	11.0	8	318.0	210.0	4382	13.5
288	18.2	8	318.0	135.0	3830	15.2

208	13.0	8	318.0	150.0	3940	13.2
188	16.0	8	318.0	150.0	4190	13.0
138	14.0	8	318.0	150.0	4457	13.5
0	18.0	8	307.0	130.0	3504	12.0
26	10.0	8	307.0	200.0	4376	15.0
73	13.0	8	307.0	130.0	4098	14.0
285	17.0	8	305.0	130.0	3840	15.4
221	17.5	8	305.0	145.0	3880	12.5
187	17.5	8	305.0	140.0	4215	13.0
262	19.2	8	305.0	145.0	3425	13.2
28	9.0	8	304.0	193.0	4732	18.5
66	17.0	8	304.0	150.0	3672	11.5
3	16.0	8	304.0	150.0	3433	12.0
72	15.0	8	304.0	150.0	3892	12.5
140	14.0	8	304.0	150.0	4257	15.5
86	14.0	8	304.0	150.0	3672	11.5
189	15.5	8	304.0	120.0	3962	13.9
264	18.1	8	302.0	139.0	3205	11.2
4	17.0	8	302.0	140.0	3449	10.5
224	15.0	8	302.0	130.0	4295	14.9
136	16.0	8	302.0	140.0	4141	14.0
166	13.0	8	302.0	129.0	3169	12.0
88	14.0	8	302.0	137.0	4042	14.5
286	17.6	8	302.0	129.0	3725	13.4

74	13.0	8	302.0	140.0	4294	16.0
139	14.0	8	302.0	140.0	4638	16.0
214	13.0	8	302.0	130.0	3870	15.0
251	20.2	8	302.0	139.0	3570	12.8
291	19.2	8	267.0	125.0	3605	15.0
165	20.0	8	262.0	110.0	3221	13.5
387	38.0	6	262.0	85.0	3015	17.0
222	17.0	8	260.0	110.0	4060	19.0
249	19.9	8	260.0	110.0	3365	15.5
300	23.9	8	260.0	90.0	3420	22.2
261	18.1	6	258.0	120.0	3410	15.1
162	15.0	6	258.0	110.0	3730	19.0
45	18.0	6	258.0	110.0	2962	13.5
134	16.0	6	258.0	110.0	3632	18.0
202	17.5	6	258.0	95.0	3193	17.8
100	18.0	6	250.0	88.0	3021	16.5
155	15.0	6	250.0	72.0	3158	19.5
161	16.0	6	250.0	105.0	3897	18.5
35	17.0	6	250.0	100.0	3329	15.5
36	19.0	6	250.0	88.0	3302	15.5
133	16.0	6	250.0	100.0	3781	17.0
47	19.0	6	250.0	100.0	3282	15.0
48	18.0	6	250.0	88.0	3139	14.5
192	22.0	6	250.0	105.0	3353	14.5

128	15.0	6	250.0	100.0	3336	17.0
153	18.0	6	250.0	105.0	3459	16.0
228	18.5	6	250.0	98.0	3525	19.0
98	16.0	6	250.0	100.0	3278	18.0
225	17.5	6	250.0	110.0	3520	16.4
154	15.0	6	250.0	72.0	3432	21.0
201	18.5	6	250.0	110.0	3645	16.2
200	18.0	6	250.0	78.0	3574	21.0
389	22.0	6	232.0	112.0	2835	14.7
33	19.0	6	232.0	100.0	2634	13.0
283	20.2	6	232.0	90.0	3265	18.2
127	19.0	6	232.0	100.0	2901	16.0
99	18.0	6	232.0	100.0	2945	16.0
257	19.4	6	232.0	90.0	3210	17.2
176	19.0	6	232.0	90.0	3211	17.0
169	20.0	6	232.0	100.0	2914	16.0
107	18.0	6	232.0	100.0	2789	15.0
194	22.5	6	232.0	90.0	3085	17.6
37	18.0	6	232.0	100.0	3288	15.5
363	22.4	6	231.0	110.0	3415	15.8
164	21.0	6	231.0	110.0	3039	15.0
226	20.5	6	231.0	105.0	3425	16.9
263	17.7	6	231.0	165.0	3445	13.4
280	21.5	6	231.0	115.0	3245	15.4

252	19.2	6	231.0	105.0	3535	19.2
258	20.6	6	231.0	105.0	3380	15.8
160	17.0	6	231.0	110.0	3907	21.0
366	17.6	6	225.0	85.0	3465	16.6
316	19.1	6	225.0	90.0	3381	18.7
191	22.0	6	225.0	100.0	3233	15.4
163	18.0	6	225.0	95.0	3785	19.0
227	19.0	6	225.0	100.0	3630	17.7
284	20.6	6	225.0	110.0	3360	16.6
256	20.5	6	225.0	100.0	3430	17.2
260	18.6	6	225.0	110.0	3620	18.7
199	20.0	6	225.0	100.0	3651	17.7
152	19.0	6	225.0	95.0	3264	16.0
135	18.0	6	225.0	105.0	3613	16.5
34	16.0	6	225.0	105.0	3439	15.5
97	18.0	6	225.0	105.0	3121	16.5
126	21.0	6	200.0	NaN	2875	17.0
17	21.0	6	200.0	85.0	2587	16.0
365	20.2	6	200.0	88.0	3060	17.1
281	19.8	6	200.0	85.0	2990	18.2
193	24.0	6	200.0	81.0	3012	17.6
254	20.2	6	200.0	85.0	2965	15.8
253	20.5	6	200.0	95.0	3155	18.2
259	20.8	6	200.0	85.0	3070	16.7

24	21.0	6	199.0	90.0	2648	15.0
16	18.0	6	199.0	97.0	2774	15.5
125	20.0	6	198.0	95.0	3102	16.5
15	22.0	6	198.0	95.0	2833	15.5
101	23.0	6	198.0	95.0	2904	16.0
297	25.4	5	183.0	77.0	3530	20.1
386	25.0	6	181.0	110.0	2945	16.4
307	26.8	6	173.0	115.0	2700	12.9
306	28.8	6	173.0	115.0	2595	11.3
341	23.5	6	173.0	110.0	2725	12.6
174	18.0	6	171.0	97.0	2984	14.5
333	32.7	6	168.0	132.0	2910	11.4
211	16.5	6	168.0	120.0	3820	16.7
361	25.4	6	168.0	116.0	2900	12.6
277	16.2	6	163.0	133.0	3410	15.8
275	17.0	6	163.0	125.0	3140	13.6
210	19.0	6	156.0	108.0	2930	15.5
340	25.8	4	156.0	92.0	2620	14.4
388	26.0	4	156.0	92.0	2585	14.5
123	20.0	6	156.0	122.0	2807	13.5
323	27.9	4	156.0	105.0	2800	14.4
271	23.2	4	156.0	105.0	2745	16.7
113	21.0	6	155.0	107.0	2472	14.0
234	24.5	4	151.0	88.0	2740	16.0

305	28.4	4	151.0	90.0	2670	16.0
272	23.8	4	151.0	85.0	2855	17.6
308	33.5	4	151.0	90.0	2556	13.2
313	28.0	4	151.0	90.0	2678	16.5
315	24.3	4	151.0	90.0	3003	20.1
339	26.6	4	151.0	84.0	2635	16.4
374	23.0	4	151.0	NaN	3035	20.5
372	27.0	4	151.0	90.0	2735	18.0
392	27.0	4	151.0	90.0	2950	17.3
328	30.0	4	146.0	67.0	3250	21.8
241	22.0	6	146.0	97.0	2815	14.5
362	24.2	6	146.0	120.0	2930	13.8
360	30.7	6	145.0	76.0	3160	19.6
390	32.0	4	144.0	96.0	2665	13.9
299	27.2	4	141.0	71.0	3190	24.8
359	28.1	4	141.0	80.0	3230	20.4
30	28.0	4	140.0	90.0	2264	15.5
184	25.0	4	140.0	92.0	2572	14.9
60	20.0	4	140.0	90.0	2408	19.5
373	24.0	4	140.0	92.0	2865	16.4
168	23.0	4	140.0	83.0	2639	17.0
282	22.3	4	140.0	88.0	2890	17.3
132	25.0	4	140.0	75.0	2542	17.0
170	23.0	4	140.0	78.0	2592	18.5

46	22.0	4	140.0	72.0	2408	19.0
236	25.5	4	140.0	89.0	2755	15.8
255	25.1	4	140.0	88.0	2720	15.4
314	26.4	4	140.0	88.0	2870	18.1
109	21.0	4	140.0	72.0	2401	19.5
336	23.6	4	140.0	NaN	2905	14.3
393	27.0	4	140.0	86.0	2790	15.6
206	26.5	4	140.0	72.0	2565	13.6
371	29.0	4	135.0	84.0	2525	16.0
395	32.0	4	135.0	84.0	2295	11.6
342	30.0	4	135.0	84.0	2385	12.9
391	36.0	4	135.0	84.0	2370	13.0
338	27.2	4	135.0	84.0	2490	15.7
171	24.0	4	134.0	96.0	2702	13.5
270	21.1	4	134.0	95.0	2515	14.8
267	27.5	4	134.0	95.0	2560	14.2
318	29.8	4	134.0	90.0	2711	15.5
274	20.3	5	131.0	103.0	2830	15.9
207	20.0	4	130.0	102.0	3150	15.7
219	25.5	4	122.0	96.0	2300	15.5
80	22.0	4	122.0	86.0	2395	16.0
49	23.0	4	122.0	86.0	2220	14.0
112	19.0	4	122.0	85.0	2310	18.5
130	26.0	4	122.0	80.0	2451	16.5

335	35.0	4	122.0	88.0	2500	15.1
61	21.0	4	122.0	86.0	2226	16.5
327	36.4	5	121.0	67.0	2950	19.9
23	26.0	4	121.0	113.0	2234	12.5
296	27.4	4	121.0	80.0	2670	15.0
76	18.0	4	121.0	112.0	2933	14.5
276	21.6	4	121.0	115.0	2795	15.7
179	22.0	4	121.0	98.0	2945	14.5
180	25.0	4	121.0	115.0	2671	13.5
122	24.0	4	121.0	110.0	2660	14.0
77	22.0	4	121.0	76.0	2511	18.0
120	19.0	4	121.0	112.0	2868	15.5
242	21.5	4	121.0	110.0	2600	12.8
178	23.0	4	120.0	88.0	2957	17.0
78	21.0	4	120.0	87.0	2979	19.5
358	31.6	4	120.0	74.0	2635	18.3
319	31.3	4	120.0	75.0	2542	17.5
82	23.0	4	120.0	97.0	2506	14.5
149	24.0	4	120.0	97.0	2489	15.0
209	19.0	4	120.0	88.0	3270	21.9
396	28.0	4	120.0	79.0	2625	18.6
380	36.0	4	120.0	88.0	2160	14.5
320	37.0	4	119.0	92.0	2434	15.0
273	23.9	4	119.0	97.0	2405	14.9

268	27.2	4	119.0	97.0	2300	14.7
357	32.9	4	119.0	100.0	2615	14.8
397	31.0	4	119.0	82.0	2720	19.4
173	24.0	4	119.0	97.0	2545	17.0
118	24.0	4	116.0	75.0	2158	15.5
50	28.0	4	116.0	90.0	2123	14.0
183	25.0	4	116.0	81.0	2220	16.9
148	26.0	4	116.0	75.0	2246	14.0
177	23.0	4	115.0	95.0	2694	15.0
119	20.0	4	114.0	91.0	2582	14.0
31	25.0	4	113.0	95.0	2228	14.0
57	24.0	4	113.0	95.0	2278	15.5
14	24.0	4	113.0	95.0	2372	15.0
367	28.0	4	112.0	88.0	2605	19.6
368	27.0	4	112.0	88.0	2640	18.6
369	34.0	4	112.0	88.0	2395	18.0
370	31.0	4	112.0	85.0	2575	16.2
217	30.0	4	111.0	80.0	2155	14.8
20	25.0	4	110.0	87.0	2672	17.5
356	32.4	4	108.0	75.0	2350	16.8
150	26.0	4	108.0	93.0	2391	15.5
110	22.0	4	108.0	94.0	2379	16.5
382	34.0	4	108.0	70.0	2245	16.9
321	32.2	4	108.0	75.0	2265	15.2

381	36.0	4	107.0	75.0	2205	14.5
337	32.4	4	107.0	72.0	2290	17.0
182	28.0	4	107.0	86.0	2464	15.5
355	33.7	4	107.0	75.0	2210	14.4
21	24.0	4	107.0	90.0	2430	14.5
302	34.5	4	105.0	70.0	2150	14.9
353	33.0	4	105.0	74.0	2190	14.2
378	38.0	4	105.0	63.0	2125	14.7
375	36.0	4	105.0	74.0	1980	15.3
301	34.2	4	105.0	70.0	2200	13.2
269	30.9	4	105.0	75.0	2230	14.5
350	34.7	4	105.0	63.0	2215	14.9
22	25.0	4	104.0	95.0	2375	17.5
186	27.0	4	101.0	83.0	2202	15.3
354	34.5	4	100.0	NaN	2320	15.8
351	34.4	4	98.0	65.0	2045	16.2
185	26.0	4	98.0	79.0	2255	17.7
32	25.0	4	98.0	NaN	2046	19.0
352	29.9	4	98.0	65.0	2380	20.7
279	29.5	4	98.0	68.0	2135	16.6
266	30.0	4	98.0	68.0	2155	16.5
237	30.5	4	98.0	63.0	2051	17.0
238	33.5	4	98.0	83.0	2075	15.9
141	29.0	4	98.0	83.0	2219	16.5

379	36.0	4	98.0	70.0	2125	17.3
196	24.5	4	98.0	60.0	2164	22.1
245	36.1	4	98.0	66.0	1800	14.4
83	28.0	4	98.0	80.0	2164	15.0
114	26.0	4	98.0	90.0	2265	15.5
311	32.1	4	98.0	70.0	2120	15.5
295	35.7	4	98.0	80.0	1915	14.4
309	41.5	4	98.0	76.0	2144	14.7
216	31.5	4	98.0	68.0	2045	18.5
58	25.0	4	97.5	80.0	2126	17.0
102	26.0	4	97.0	46.0	1950	21.0
55	27.0	4	97.0	60.0	1834	19.0
18	27.0	4	97.0	88.0	2130	14.5
167	29.0	4	97.0	75.0	2171	16.0
235	26.0	4	97.0	75.0	2265	18.2
346	32.3	4	97.0	67.0	2065	17.8
84	27.0	4	97.0	88.0	2100	16.5
394	44.0	4	97.0	52.0	2130	24.6
233	29.0	4	97.0	78.0	1940	14.5
59	23.0	4	97.0	54.0	2254	23.5
203	29.5	4	97.0	71.0	1825	12.2
331	33.8	4	97.0	67.0	2145	18.0
205	28.0	4	97.0	75.0	2155	16.4
19	26.0	4	97.0	46.0	1835	20.5

108	20.0	4	97.0	88.0	2279	19.0
29	27.0	4	97.0	88.0	2130	14.5
239	30.0	4	97.0	67.0	1985	16.4
240	30.5	4	97.0	78.0	2190	14.1
317	34.3	4	97.0	78.0	2188	15.8
143	26.0	4	97.0	78.0	2300	14.5
81	28.0	4	97.0	92.0	2288	17.0
79	26.0	4	96.0	69.0	2189	18.0
385	38.0	4	91.0	67.0	1995	16.2
248	36.1	4	91.0	60.0	1800	16.4
56	26.0	4	91.0	70.0	1955	20.5
384	32.0	4	91.0	67.0	1965	15.7
383	38.0	4	91.0	67.0	1965	15.0
377	31.0	4	91.0	68.0	1970	17.6
376	37.0	4	91.0	68.0	2025	18.2
304	37.3	4	91.0	69.0	2130	14.7
181	33.0	4	91.0	53.0	1795	17.5
349	34.1	4	91.0	68.0	1985	16.0
198	33.0	4	91.0	53.0	1795	17.4
329	44.6	4	91.0	67.0	1850	13.8
175	29.0	4	90.0	70.0	1937	14.0
147	24.0	4	90.0	75.0	2108	15.5
146	28.0	4	90.0	75.0	2125	14.5
197	29.0	4	90.0	70.0	1937	14.2

325	44.3	4	90.0	48.0	2085	21.7
326	43.4	4	90.0	48.0	2335	23.7
172	25.0	4	90.0	71.0	2223	16.5
244	43.1	4	90.0	48.0	1985	21.5
332	29.8	4	89.0	62.0	1845	15.3
348	37.7	4	89.0	62.0	2050	17.3
310	38.1	4	89.0	60.0	1968	18.8
293	31.9	4	89.0	71.0	1925	14.0
278	31.5	4	89.0	71.0	1990	14.9
52	30.0	4	88.0	76.0	2065	14.5
322	46.6	4	86.0	65.0	2110	17.9
312	37.2	4	86.0	65.0	2019	16.4
294	34.1	4	86.0	65.0	1975	15.2
344	39.0	4	86.0	64.0	1875	16.4
324	40.8	4	85.0	65.0	2110	19.2
220	33.5	4	85.0	70.0	1945	16.8
195	29.0	4	85.0	52.0	2035	22.2
204	32.0	4	85.0	70.0	1990	17.0
303	31.8	4	85.0	65.0	2020	19.2
247	39.4	4	85.0	70.0	2070	18.6
347	37.0	4	85.0	65.0	1975	19.4
330	40.9	4	85.0	NaN	1835	17.3
145	32.0	4	83.0	61.0	2003	19.0
345	35.1	4	81.0	60.0	1760	16.1

243	21.5	3	80.0	110.0	2720	13.5
151	31.0	4	79.0	67.0	2000	16.0
343	39.1	4	79.0	58.0	1755	16.9
218	36.0	4	79.0	58.0	1825	18.6
142	26.0	4	79.0	67.0	1963	15.5
129	31.0	4	79.0	67.0	1950	19.0
51	30.0	4	79.0	70.0	2074	19.5
246	32.8	4	78.0	52.0	1985	19.4
144	31.0	4	76.0	52.0	1649	16.5
54	35.0	4	72.0	69.0	1613	18.0
53	31.0	4	71.0	65.0	1773	19.0
131	32.0	4	71.0	65.0	1836	21.0
111	18.0	3	70.0	90.0	2124	13.5
71	19.0	3	70.0	97.0	2330	13.5
334	23.7	3	70.0	100.0	2420	12.5
117	29.0	4	68.0	49.0	1867	19.5

	model_year	origin	name
8	70	usa	pontiac catalina
95	73	usa	buick electra 225 custom
13	70	usa	buick estate wagon (sw)
6	70	usa	chevrolet impala
7	70	usa	plymouth fury iii
94	73	usa	chrysler new yorker brougham
90	73	usa	mercury marquis brougham
67	72	usa	mercury marquis
5	70	usa	ford galaxie 500
39	71	usa	pontiac catalina brougham
44	71	usa	pontiac safari (sw)
116	73	usa	pontiac grand prix
63	72	usa	pontiac catalina
70	72	usa	chrysler newport royal

229	77	usa	pontiac grand prix lj
43	71	usa	ford country squire (sw)
156	75	usa	pontiac catalina
91	73	usa	chevrolet caprice classic
231	77	usa	chrysler cordoba
104	73	usa	ford country
103	73	usa	chevrolet impala
12	70	usa	chevrolet monte carlo
9	70	usa	amc ambassador dpl
10	70	usa	dodge challenger se
42	71	usa	dodge monaco (sw)
292	79	usa	chrysler lebaron town @ country (sw)
25	70	usa	ford f250
105	73	usa	plymouth custom suburb
96	73	usa	amc ambassador brougham
92	73	usa	ford ltd
40	71	usa	ford galaxie 500
232	77	usa	ford thunderbird
65	72	usa	ford galaxie 500
190	76	usa	ford gran torino
159	75	usa	ford ltd
290	79	usa	ford country squire (sw)
287	79	usa	mercury grand marquis
115	73	usa	chevrolet monte carlo s
69	72	usa	oldsmobile delta 88 royale
124	73	usa	oldsmobile omega
213	76	usa	chevy c10
68	72	usa	buick lesabre custom
1	70	usa	buick skylark 320
212	76	usa	cadillac seville
62	72	usa	chevrolet impala
230	77	usa	chevrolet monte carlo landau
298	79	usa	cadillac eldorado
137	74	usa	buick century luxury (sw)
157	75	usa	chevrolet bel air
106	73	usa	oldsmobile vista cruiser
85	73	usa	buick century 350
87	73	usa	chevrolet malibu
38	71	usa	chevrolet impala
289	79	usa	buick estate wagon (sw)
364	81	usa	oldsmobile cutlass ls
11	70	usa	plymouth 'cuda 340
64	72	usa	plymouth fury iii
89	73	usa	dodge coronet custom
93	73	usa	plymouth fury gran sedan
215	76	usa	dodge d100
250	78	usa	dodge diplomat
75	72	usa	plymouth satellite custom (sw)
265	78	usa	dodge magnum xe
223	77	usa	dodge monaco brougham

41	71	usa	plymouth fury iii
2	70	usa	plymouth satellite
121	73	usa	dodge dart custom
158	75	usa	plymouth grand fury
27	70	usa	dodge d200
288	79	usa	dodge st. regis
208	76	usa	plymouth volare premier v8
188	76	usa	dodge coronet brougham
138	74	usa	dodge coronet custom (sw)
0	70	usa	chevrolet chevelle malibu
26	70	usa	chevy c20
73	72	usa	chevrolet chevelle concours (sw)
285	79	usa	chevrolet caprice classic
221	77	usa	chevrolet caprice classic
187	76	usa	chevrolet chevelle malibu classic
262	78	usa	chevrolet monte carlo landau
28	70	usa	hi 1200d
66	72	usa	amc ambassador sst
3	70	usa	amc rebel sst
72	72	usa	amc matador (sw)
140	74	usa	amc matador (sw)
86	73	usa	amc matador
189	76	usa	amc matador
264	78	usa	ford futura
4	70	usa	ford torino
224	77	usa	mercury cougar brougham
136	74	usa	ford gran torino
166	75	usa	ford mustang ii
88	73	usa	ford gran torino
286	79	usa	ford ltd landau
74	72	usa	ford gran torino (sw)
139	74	usa	ford gran torino (sw)
214	76	usa	ford f108
251	78	usa	mercury monarch ghia
291	79	usa	chevrolet malibu classic (sw)
165	75	usa	chevrolet monza 2+2
387	82	usa	oldsmobile cutlass ciera (diesel)
222	77	usa	oldsmobile cutlass supreme
249	78	usa	oldsmobile cutlass salon brougham
300	79	usa	oldsmobile cutlass salon brougham
261	78	usa	amc concord d/l
162	75	usa	amc matador
45	71	usa	amc hornet sportabout (sw)
134	74	usa	amc matador
202	76	usa	amc pacer d/l
100	73	usa	ford maverick
155	75	usa	ford maverick
161	75	usa	chevroelt chevelle malibu
35	71	usa	chevrolet chevelle malibu
36	71	usa	ford torino 500

133	74	usa	chevrolet chevelle malibu classic
47	71	usa	pontiac firebird
48	71	usa	ford mustang
192	76	usa	chevrolet nova
128	74	usa	chevrolet nova
153	75	usa	chevrolet nova
228	77	usa	ford granada
98	73	usa	chevrolet nova custom
225	77	usa	chevrolet concours
154	75	usa	mercury monarch
201	76	usa	pontiac ventura sj
200	76	usa	ford granada ghia
389	82	usa	ford granada l
33	71	usa	amc gremlin
283	79	usa	amc concord dl 6
127	74	usa	amc hornet
99	73	usa	amc hornet
257	78	usa	amc concord
176	75	usa	amc pacer
169	75	usa	amc gremlin
107	73	usa	amc gremlin
194	76	usa	amc hornet
37	71	usa	amc matador
363	81	usa	buick century
164	75	usa	buick skyhawk
226	77	usa	buick skylark
263	78	usa	buick regal sport coupe (turbo)
280	79	usa	pontiac lemans v6
252	78	usa	pontiac phoenix lj
258	78	usa	buick century special
160	75	usa	buick century
366	81	usa	chrysler lebaron salon
316	80	usa	dodge aspen
191	76	usa	plymouth valiant
163	75	usa	plymouth fury
227	77	usa	plymouth volare custom
284	79	usa	dodge aspen 6
256	78	usa	plymouth volare
260	78	usa	dodge aspen
199	76	usa	dodge aspen se
152	75	usa	plymouth valiant custom
135	74	usa	plymouth satelllite sebring
34	71	usa	plymouth satelllite custom
97	73	usa	plymouth valiant
126	74	usa	ford maverick
17	70	usa	ford maverick
365	81	usa	ford granada gl
281	79	usa	mercury zephyr 6
193	76	usa	ford maverick
254	78	usa	ford fairmont (auto)

253	78	usa	chevrolet malibu
259	78	usa	mercury zephyr
24	70	usa	amc gremlin
16	70	usa	amc hornet
125	74	usa	plymouth duster
15	70	usa	plymouth duster
101	73	usa	plymouth duster
297	79	europe	mercedes benz 300d
386	82	usa	buick century limited
307	79	usa	oldsmobile omega brougham
306	79	usa	chevrolet citation
341	81	usa	chevrolet citation
174	75	usa	ford pinto
333	80	japan	datsum 280-zx
211	76	europe	mercedes-benz 280s
361	81	japan	toyota cressida
277	78	europe	peugeot 604sl
275	78	europe	volvo 264gl
210	76	japan	toyota mark ii
340	81	usa	dodge aries wagon (sw)
388	82	usa	chrysler lebaron medallion
123	73	japan	toyota mark ii
323	80	usa	dodge colt
271	78	usa	plymouth sapporo
113	73	usa	mercury capri v6
234	77	usa	pontiac sunbird coupe
305	79	usa	buick skylark limited
272	78	usa	oldsmobile starfire sx
308	79	usa	pontiac phoenix
313	80	usa	chevrolet citation
315	80	usa	amc concord
339	81	usa	buick skylark
374	82	usa	amc concord dl
372	82	usa	pontiac phoenix
392	82	usa	chevrolet camaro
328	80	europe	mercedes-benz 240d
241	77	japan	datsum 810
362	81	japan	datsum 810 maxima
360	81	europe	volvo diesel
390	82	japan	toyota celica gt
299	79	europe	peugeot 504
359	81	europe	peugeot 505s turbo diesel
30	71	usa	chevrolet vega 2300
184	76	usa	capri ii
60	72	usa	chevrolet vega
373	82	usa	ford fairmont futura
168	75	usa	ford pinto
282	79	usa	ford fairmont 4
132	74	usa	chevrolet vega
170	75	usa	pontiac astro

46	71	usa	chevrolet vega (sw)
236	77	usa	ford mustang ii 2+2
255	78	usa	ford fairmont (man)
314	80	usa	ford fairmont
109	73	usa	chevrolet vega
336	80	usa	ford mustang cobra
393	82	usa	ford mustang gl
206	76	usa	ford pinto
371	82	usa	dodge aries se
395	82	usa	dodge rampage
342	81	usa	plymouth reliant
391	82	usa	dodge charger 2.2
338	81	usa	plymouth reliant
171	75	japan	toyota corona
270	78	japan	toyota celica gt liftback
267	78	japan	toyota corona
318	80	japan	toyota corona liftback
274	78	europa	audi 5000
207	76	europa	volvo 245
219	77	usa	plymouth arrow gs
80	72	usa	ford pinto (sw)
49	71	usa	mercury capri 2000
112	73	usa	ford pinto
130	74	usa	ford pinto
335	80	europa	triumph tr7 coupe
61	72	usa	ford pinto runabout
327	80	europa	audi 5000s (diesel)
23	70	europa	bmw 2002
296	79	usa	amc spirit dl
76	72	europa	volvo 145e (sw)
276	78	europa	saab 99gle
179	75	europa	volvo 244dl
180	75	europa	saab 99le
122	73	europa	saab 99le
77	72	europa	volkswagen 411 (sw)
120	73	europa	volvo 144ea
242	77	europa	bmw 320i
178	75	europa	peugeot 504
78	72	europa	peugeot 504 (sw)
358	81	japan	mazda 626
319	80	japan	mazda 626
82	72	japan	toyouta corona mark ii (sw)
149	74	japan	honda civic
209	76	europa	peugeot 504
396	82	usa	ford ranger
380	82	japan	nissan stanza xe
320	80	japan	datsum 510 hatchback
273	78	japan	datsum 200-sx
268	78	japan	datsum 510
357	81	japan	datsum 200sx

397	82	usa	chevy s-10
173	75	japan	datsum 710
118	73	europe	opel manta
50	71	europe	opel 1900
183	76	europe	opel 1900
148	74	europe	fiat 124 tc
177	75	europe	audi 100ls
119	73	europe	audi 100ls
31	71	japan	toyota corona
57	72	japan	toyota corona hardtop
14	70	japan	toyota corona mark ii
367	82	usa	chevrolet cavalier
368	82	usa	chevrolet cavalier wagon
369	82	usa	chevrolet cavalier 2-door
370	82	usa	pontiac j2000 se hatchback
217	77	usa	buick opel isuzu deluxe
20	70	europe	peugeot 504
356	81	japan	toyota corolla
150	74	japan	subaru
110	73	japan	datsum 610
382	82	japan	toyota corolla
321	80	japan	toyota corolla
381	82	japan	honda accord
337	80	japan	honda accord
182	76	europe	fiat 131
355	81	japan	honda prelude
21	70	europe	audi 100 ls
302	79	usa	plymouth horizon tc3
353	81	europe	volkswagen jetta
378	82	usa	plymouth horizon miser
375	82	europe	volkswagen rabbit l
301	79	usa	plymouth horizon
269	78	usa	dodge omni
350	81	usa	plymouth horizon 4
22	70	europe	saab 99e
186	76	europe	renault 12tl
354	81	europe	renault 18i
351	81	usa	ford escort 4w
185	76	usa	dodge colt
32	71	usa	ford pinto
352	81	usa	ford escort 2h
279	78	japan	honda accord lx
266	78	usa	chevrolet chevette
237	77	usa	chevrolet chevette
238	77	usa	dodge colt m/m
141	74	europe	audi fox
379	82	usa	mercury lynx l
196	76	usa	chevrolet woody
245	78	usa	ford fiesta
83	72	usa	dodge colt (sw)

114	73	europa	fiat 124 sport coupe
311	80	usa	chevrolet chevette
295	79	usa	dodge colt hatchback custom
309	80	europa	vw rabbit
216	77	japan	honda accord cvcc
58	72	usa	dodge colt hardtop
102	73	europa	volkswagen super beetle
55	71	europa	volkswagen model 111
18	70	japan	datsum pl510
167	75	japan	toyota corolla
235	77	japan	toyota corolla liftback
346	81	japan	subaru
84	72	japan	toyota corolla 1600 (sw)
394	82	europa	vw pickup
233	77	europa	volkswagen rabbit custom
59	72	europa	volkswagen type 3
203	76	europa	volkswagen rabbit
331	80	japan	subaru dl
205	76	japan	toyota corolla
19	70	europa	volkswagen 1131 deluxe sedan
108	73	japan	toyota carina
29	71	japan	datsum pl510
239	77	japan	subaru dl
240	77	europa	volkswagen dasher
317	80	europa	audi 4000
143	74	europa	opel manta
81	72	japan	datsum 510 (sw)
79	72	europa	renault 12 (sw)
385	82	japan	datsum 310 gx
248	78	japan	honda civic cvcc
56	71	usa	plymouth cricket
384	82	japan	honda civic (auto)
383	82	japan	honda civic
377	82	japan	mazda glc custom
376	82	japan	mazda glc custom l
304	79	europa	fiat strada custom
181	75	japan	honda civic cvcc
349	81	japan	mazda glc 4
198	76	japan	honda civic
329	80	japan	honda civic 1500 gl
175	75	europa	volkswagen rabbit
147	74	europa	fiat 128
146	74	usa	dodge colt
197	76	europa	vw rabbit
325	80	europa	vw rabbit c (diesel)
326	80	europa	vw dasher (diesel)
172	75	europa	volkswagen dasher
244	78	europa	volkswagen rabbit custom diesel
332	80	europa	volkswagen rabbit
348	81	japan	toyota tercel

310	80	japan	toyota corolla tercel
293	79	europe	vw rabbit custom
278	78	europe	volkswagen scirocco
52	71	europe	fiat 124b
322	80	japan	mazda glc
312	80	japan	datsum 310
294	79	japan	maxda glc deluxe
344	81	usa	plymouth champ
324	80	japan	datsum 210
220	77	japan	datsum f-10 hatchback
195	76	usa	chevrolet chevette
204	76	japan	datsum b-210
303	79	japan	datsum 210
247	78	japan	datsum b210 gx
347	81	japan	datsum 210 mpg
330	80	europe	renault lecar deluxe
145	74	japan	datsum 710
345	81	japan	honda civic 1300
243	77	japan	mazda rx-4
151	74	europe	fiat x1.9
343	81	japan	toyota starlet
218	77	europe	renault 5 gtl
142	74	europe	volkswagen dasher
129	74	japan	datsum b210
51	71	europe	peugeot 304
246	78	japan	mazda glc deluxe
144	74	japan	toyota corona
54	71	japan	datsum 1200
53	71	japan	toyota corolla 1200
131	74	japan	toyota corolla 1200
111	73	japan	maxda rx3
71	72	japan	mazda rx2 coupe
334	80	japan	mazda rx-7 gs
117	73	europe	fiat 128

```
car.sort_values(['displacement','weight'],ascending=False)
```

	mpg	cylinders	displacement	horsepower	weight	
acceleration \						
95	12.0	8	455.0	225.0	4951	11.0
8	14.0	8	455.0	225.0	4425	10.0
13	14.0	8	455.0	225.0	3086	10.0
6	14.0	8	454.0	220.0	4354	9.0
94	13.0	8	440.0	215.0	4735	11.0
7	14.0	8	440.0	215.0	4312	8.5

90	12.0	8	429.0	198.0	4952	11.5
67	11.0	8	429.0	208.0	4633	11.0
5	15.0	8	429.0	198.0	4341	10.0
44	13.0	8	400.0	175.0	5140	12.0
103	11.0	8	400.0	150.0	4997	14.0
104	12.0	8	400.0	167.0	4906	12.5
43	13.0	8	400.0	170.0	4746	12.0
156	16.0	8	400.0	170.0	4668	11.5
39	14.0	8	400.0	175.0	4464	11.5
91	13.0	8	400.0	150.0	4464	12.0
70	13.0	8	400.0	190.0	4422	12.5
63	14.0	8	400.0	175.0	4385	12.0
231	15.5	8	400.0	190.0	4325	12.2
116	16.0	8	400.0	230.0	4278	9.5
229	16.0	8	400.0	180.0	4220	11.1
12	15.0	8	400.0	150.0	3761	9.5
9	15.0	8	390.0	190.0	3850	8.5
42	12.0	8	383.0	180.0	4955	11.5
10	15.0	8	383.0	170.0	3563	10.0
105	13.0	8	360.0	170.0	4654	13.0
25	10.0	8	360.0	215.0	4615	14.0
292	18.5	8	360.0	150.0	3940	13.0
96	13.0	8	360.0	175.0	3821	11.0
159	14.0	8	351.0	148.0	4657	13.5

92	13.0	8	351.0	158.0	4363	13.0
232	16.0	8	351.0	149.0	4335	14.5
190	14.5	8	351.0	152.0	4215	12.8
40	14.0	8	351.0	153.0	4154	13.5
65	14.0	8	351.0	153.0	4129	13.0
290	15.5	8	351.0	142.0	4054	14.3
287	16.5	8	351.0	138.0	3955	13.2
137	13.0	8	350.0	150.0	4699	14.5
68	13.0	8	350.0	155.0	4502	13.5
106	12.0	8	350.0	180.0	4499	12.5
69	12.0	8	350.0	160.0	4456	13.5
157	15.0	8	350.0	145.0	4440	14.0
212	16.5	8	350.0	180.0	4380	12.1
289	16.9	8	350.0	155.0	4360	14.9
62	13.0	8	350.0	165.0	4274	12.0
38	14.0	8	350.0	165.0	4209	12.0
230	15.5	8	350.0	170.0	4165	11.4
85	13.0	8	350.0	175.0	4100	13.0
115	15.0	8	350.0	145.0	4082	13.0
213	13.0	8	350.0	145.0	4055	12.0
87	13.0	8	350.0	145.0	3988	13.0
298	23.0	8	350.0	125.0	3900	17.4
364	26.6	8	350.0	105.0	3725	19.0
1	15.0	8	350.0	165.0	3693	11.5

124	11.0	8	350.0	180.0	3664	11.0
11	14.0	8	340.0	160.0	3609	8.0
158	16.0	8	318.0	150.0	4498	14.5
138	14.0	8	318.0	150.0	4457	13.5
27	11.0	8	318.0	210.0	4382	13.5
93	14.0	8	318.0	150.0	4237	14.5
188	16.0	8	318.0	150.0	4190	13.0
223	15.5	8	318.0	145.0	4140	13.7
64	15.0	8	318.0	150.0	4135	13.5
41	14.0	8	318.0	150.0	4096	13.0
265	17.5	8	318.0	140.0	4080	13.7
75	14.0	8	318.0	150.0	4077	14.0
208	13.0	8	318.0	150.0	3940	13.2
288	18.2	8	318.0	135.0	3830	15.2
89	15.0	8	318.0	150.0	3777	12.5
215	13.0	8	318.0	150.0	3755	14.0
250	19.4	8	318.0	140.0	3735	13.2
2	18.0	8	318.0	150.0	3436	11.0
121	15.0	8	318.0	150.0	3399	11.0
26	10.0	8	307.0	200.0	4376	15.0
73	13.0	8	307.0	130.0	4098	14.0
0	18.0	8	307.0	130.0	3504	12.0
187	17.5	8	305.0	140.0	4215	13.0
221	17.5	8	305.0	145.0	3880	12.5

285	17.0	8	305.0	130.0	3840	15.4
262	19.2	8	305.0	145.0	3425	13.2
28	9.0	8	304.0	193.0	4732	18.5
140	14.0	8	304.0	150.0	4257	15.5
189	15.5	8	304.0	120.0	3962	13.9
72	15.0	8	304.0	150.0	3892	12.5
66	17.0	8	304.0	150.0	3672	11.5
86	14.0	8	304.0	150.0	3672	11.5
3	16.0	8	304.0	150.0	3433	12.0
139	14.0	8	302.0	140.0	4638	16.0
224	15.0	8	302.0	130.0	4295	14.9
74	13.0	8	302.0	140.0	4294	16.0
136	16.0	8	302.0	140.0	4141	14.0
88	14.0	8	302.0	137.0	4042	14.5
214	13.0	8	302.0	130.0	3870	15.0
286	17.6	8	302.0	129.0	3725	13.4
251	20.2	8	302.0	139.0	3570	12.8
4	17.0	8	302.0	140.0	3449	10.5
264	18.1	8	302.0	139.0	3205	11.2
166	13.0	8	302.0	129.0	3169	12.0
291	19.2	8	267.0	125.0	3605	15.0
165	20.0	8	262.0	110.0	3221	13.5
387	38.0	6	262.0	85.0	3015	17.0
222	17.0	8	260.0	110.0	4060	19.0

300	23.9	8	260.0	90.0	3420	22.2
249	19.9	8	260.0	110.0	3365	15.5
162	15.0	6	258.0	110.0	3730	19.0
134	16.0	6	258.0	110.0	3632	18.0
261	18.1	6	258.0	120.0	3410	15.1
202	17.5	6	258.0	95.0	3193	17.8
45	18.0	6	258.0	110.0	2962	13.5
161	16.0	6	250.0	105.0	3897	18.5
133	16.0	6	250.0	100.0	3781	17.0
201	18.5	6	250.0	110.0	3645	16.2
200	18.0	6	250.0	78.0	3574	21.0
228	18.5	6	250.0	98.0	3525	19.0
225	17.5	6	250.0	110.0	3520	16.4
153	18.0	6	250.0	105.0	3459	16.0
154	15.0	6	250.0	72.0	3432	21.0
192	22.0	6	250.0	105.0	3353	14.5
128	15.0	6	250.0	100.0	3336	17.0
35	17.0	6	250.0	100.0	3329	15.5
36	19.0	6	250.0	88.0	3302	15.5
47	19.0	6	250.0	100.0	3282	15.0
98	16.0	6	250.0	100.0	3278	18.0
155	15.0	6	250.0	72.0	3158	19.5
48	18.0	6	250.0	88.0	3139	14.5
100	18.0	6	250.0	88.0	3021	16.5

37	18.0	6	232.0	100.0	3288	15.5
283	20.2	6	232.0	90.0	3265	18.2
176	19.0	6	232.0	90.0	3211	17.0
257	19.4	6	232.0	90.0	3210	17.2
194	22.5	6	232.0	90.0	3085	17.6
99	18.0	6	232.0	100.0	2945	16.0
169	20.0	6	232.0	100.0	2914	16.0
127	19.0	6	232.0	100.0	2901	16.0
389	22.0	6	232.0	112.0	2835	14.7
107	18.0	6	232.0	100.0	2789	15.0
33	19.0	6	232.0	100.0	2634	13.0
160	17.0	6	231.0	110.0	3907	21.0
252	19.2	6	231.0	105.0	3535	19.2
263	17.7	6	231.0	165.0	3445	13.4
226	20.5	6	231.0	105.0	3425	16.9
363	22.4	6	231.0	110.0	3415	15.8
258	20.6	6	231.0	105.0	3380	15.8
280	21.5	6	231.0	115.0	3245	15.4
164	21.0	6	231.0	110.0	3039	15.0
163	18.0	6	225.0	95.0	3785	19.0
199	20.0	6	225.0	100.0	3651	17.7
227	19.0	6	225.0	100.0	3630	17.7
260	18.6	6	225.0	110.0	3620	18.7
135	18.0	6	225.0	105.0	3613	16.5

366	17.6	6	225.0	85.0	3465	16.6
34	16.0	6	225.0	105.0	3439	15.5
256	20.5	6	225.0	100.0	3430	17.2
316	19.1	6	225.0	90.0	3381	18.7
284	20.6	6	225.0	110.0	3360	16.6
152	19.0	6	225.0	95.0	3264	16.0
191	22.0	6	225.0	100.0	3233	15.4
97	18.0	6	225.0	105.0	3121	16.5
253	20.5	6	200.0	95.0	3155	18.2
259	20.8	6	200.0	85.0	3070	16.7
365	20.2	6	200.0	88.0	3060	17.1
193	24.0	6	200.0	81.0	3012	17.6
281	19.8	6	200.0	85.0	2990	18.2
254	20.2	6	200.0	85.0	2965	15.8
126	21.0	6	200.0	NaN	2875	17.0
17	21.0	6	200.0	85.0	2587	16.0
16	18.0	6	199.0	97.0	2774	15.5
24	21.0	6	199.0	90.0	2648	15.0
125	20.0	6	198.0	95.0	3102	16.5
101	23.0	6	198.0	95.0	2904	16.0
15	22.0	6	198.0	95.0	2833	15.5
297	25.4	5	183.0	77.0	3530	20.1
386	25.0	6	181.0	110.0	2945	16.4
341	23.5	6	173.0	110.0	2725	12.6

307	26.8	6	173.0	115.0	2700	12.9
306	28.8	6	173.0	115.0	2595	11.3
174	18.0	6	171.0	97.0	2984	14.5
211	16.5	6	168.0	120.0	3820	16.7
333	32.7	6	168.0	132.0	2910	11.4
361	25.4	6	168.0	116.0	2900	12.6
277	16.2	6	163.0	133.0	3410	15.8
275	17.0	6	163.0	125.0	3140	13.6
210	19.0	6	156.0	108.0	2930	15.5
123	20.0	6	156.0	122.0	2807	13.5
323	27.9	4	156.0	105.0	2800	14.4
271	23.2	4	156.0	105.0	2745	16.7
340	25.8	4	156.0	92.0	2620	14.4
388	26.0	4	156.0	92.0	2585	14.5
113	21.0	6	155.0	107.0	2472	14.0
374	23.0	4	151.0	NaN	3035	20.5
315	24.3	4	151.0	90.0	3003	20.1
392	27.0	4	151.0	90.0	2950	17.3
272	23.8	4	151.0	85.0	2855	17.6
234	24.5	4	151.0	88.0	2740	16.0
372	27.0	4	151.0	90.0	2735	18.0
313	28.0	4	151.0	90.0	2678	16.5
305	28.4	4	151.0	90.0	2670	16.0
339	26.6	4	151.0	84.0	2635	16.4

308	33.5	4	151.0	90.0	2556	13.2
328	30.0	4	146.0	67.0	3250	21.8
362	24.2	6	146.0	120.0	2930	13.8
241	22.0	6	146.0	97.0	2815	14.5
360	30.7	6	145.0	76.0	3160	19.6
390	32.0	4	144.0	96.0	2665	13.9
359	28.1	4	141.0	80.0	3230	20.4
299	27.2	4	141.0	71.0	3190	24.8
336	23.6	4	140.0	NaN	2905	14.3
282	22.3	4	140.0	88.0	2890	17.3
314	26.4	4	140.0	88.0	2870	18.1
373	24.0	4	140.0	92.0	2865	16.4
393	27.0	4	140.0	86.0	2790	15.6
236	25.5	4	140.0	89.0	2755	15.8
255	25.1	4	140.0	88.0	2720	15.4
168	23.0	4	140.0	83.0	2639	17.0
170	23.0	4	140.0	78.0	2592	18.5
184	25.0	4	140.0	92.0	2572	14.9
206	26.5	4	140.0	72.0	2565	13.6
132	25.0	4	140.0	75.0	2542	17.0
46	22.0	4	140.0	72.0	2408	19.0
60	20.0	4	140.0	90.0	2408	19.5
109	21.0	4	140.0	72.0	2401	19.5
30	28.0	4	140.0	90.0	2264	15.5

371	29.0	4	135.0	84.0	2525	16.0
338	27.2	4	135.0	84.0	2490	15.7
342	30.0	4	135.0	84.0	2385	12.9
391	36.0	4	135.0	84.0	2370	13.0
395	32.0	4	135.0	84.0	2295	11.6
318	29.8	4	134.0	90.0	2711	15.5
171	24.0	4	134.0	96.0	2702	13.5
267	27.5	4	134.0	95.0	2560	14.2
270	21.1	4	134.0	95.0	2515	14.8
274	20.3	5	131.0	103.0	2830	15.9
207	20.0	4	130.0	102.0	3150	15.7
335	35.0	4	122.0	88.0	2500	15.1
130	26.0	4	122.0	80.0	2451	16.5
80	22.0	4	122.0	86.0	2395	16.0
112	19.0	4	122.0	85.0	2310	18.5
219	25.5	4	122.0	96.0	2300	15.5
61	21.0	4	122.0	86.0	2226	16.5
49	23.0	4	122.0	86.0	2220	14.0
327	36.4	5	121.0	67.0	2950	19.9
179	22.0	4	121.0	98.0	2945	14.5
76	18.0	4	121.0	112.0	2933	14.5
120	19.0	4	121.0	112.0	2868	15.5
276	21.6	4	121.0	115.0	2795	15.7
180	25.0	4	121.0	115.0	2671	13.5

296	27.4	4	121.0	80.0	2670	15.0
122	24.0	4	121.0	110.0	2660	14.0
242	21.5	4	121.0	110.0	2600	12.8
77	22.0	4	121.0	76.0	2511	18.0
23	26.0	4	121.0	113.0	2234	12.5
209	19.0	4	120.0	88.0	3270	21.9
78	21.0	4	120.0	87.0	2979	19.5
178	23.0	4	120.0	88.0	2957	17.0
358	31.6	4	120.0	74.0	2635	18.3
396	28.0	4	120.0	79.0	2625	18.6
319	31.3	4	120.0	75.0	2542	17.5
82	23.0	4	120.0	97.0	2506	14.5
149	24.0	4	120.0	97.0	2489	15.0
380	36.0	4	120.0	88.0	2160	14.5
397	31.0	4	119.0	82.0	2720	19.4
357	32.9	4	119.0	100.0	2615	14.8
173	24.0	4	119.0	97.0	2545	17.0
320	37.0	4	119.0	92.0	2434	15.0
273	23.9	4	119.0	97.0	2405	14.9
268	27.2	4	119.0	97.0	2300	14.7
148	26.0	4	116.0	75.0	2246	14.0
183	25.0	4	116.0	81.0	2220	16.9
118	24.0	4	116.0	75.0	2158	15.5
50	28.0	4	116.0	90.0	2123	14.0

177	23.0	4	115.0	95.0	2694	15.0
119	20.0	4	114.0	91.0	2582	14.0
14	24.0	4	113.0	95.0	2372	15.0
57	24.0	4	113.0	95.0	2278	15.5
31	25.0	4	113.0	95.0	2228	14.0
368	27.0	4	112.0	88.0	2640	18.6
367	28.0	4	112.0	88.0	2605	19.6
370	31.0	4	112.0	85.0	2575	16.2
369	34.0	4	112.0	88.0	2395	18.0
217	30.0	4	111.0	80.0	2155	14.8
20	25.0	4	110.0	87.0	2672	17.5
150	26.0	4	108.0	93.0	2391	15.5
110	22.0	4	108.0	94.0	2379	16.5
356	32.4	4	108.0	75.0	2350	16.8
321	32.2	4	108.0	75.0	2265	15.2
382	34.0	4	108.0	70.0	2245	16.9
182	28.0	4	107.0	86.0	2464	15.5
21	24.0	4	107.0	90.0	2430	14.5
337	32.4	4	107.0	72.0	2290	17.0
355	33.7	4	107.0	75.0	2210	14.4
381	36.0	4	107.0	75.0	2205	14.5
269	30.9	4	105.0	75.0	2230	14.5
350	34.7	4	105.0	63.0	2215	14.9
301	34.2	4	105.0	70.0	2200	13.2

353	33.0	4	105.0	74.0	2190	14.2
302	34.5	4	105.0	70.0	2150	14.9
378	38.0	4	105.0	63.0	2125	14.7
375	36.0	4	105.0	74.0	1980	15.3
22	25.0	4	104.0	95.0	2375	17.5
186	27.0	4	101.0	83.0	2202	15.3
354	34.5	4	100.0	NaN	2320	15.8
352	29.9	4	98.0	65.0	2380	20.7
114	26.0	4	98.0	90.0	2265	15.5
185	26.0	4	98.0	79.0	2255	17.7
141	29.0	4	98.0	83.0	2219	16.5
83	28.0	4	98.0	80.0	2164	15.0
196	24.5	4	98.0	60.0	2164	22.1
266	30.0	4	98.0	68.0	2155	16.5
309	41.5	4	98.0	76.0	2144	14.7
279	29.5	4	98.0	68.0	2135	16.6
379	36.0	4	98.0	70.0	2125	17.3
311	32.1	4	98.0	70.0	2120	15.5
238	33.5	4	98.0	83.0	2075	15.9
237	30.5	4	98.0	63.0	2051	17.0
32	25.0	4	98.0	NaN	2046	19.0
216	31.5	4	98.0	68.0	2045	18.5
351	34.4	4	98.0	65.0	2045	16.2
295	35.7	4	98.0	80.0	1915	14.4

245	36.1	4	98.0	66.0	1800	14.4
58	25.0	4	97.5	80.0	2126	17.0
143	26.0	4	97.0	78.0	2300	14.5
81	28.0	4	97.0	92.0	2288	17.0
108	20.0	4	97.0	88.0	2279	19.0
235	26.0	4	97.0	75.0	2265	18.2
59	23.0	4	97.0	54.0	2254	23.5
240	30.5	4	97.0	78.0	2190	14.1
317	34.3	4	97.0	78.0	2188	15.8
167	29.0	4	97.0	75.0	2171	16.0
205	28.0	4	97.0	75.0	2155	16.4
331	33.8	4	97.0	67.0	2145	18.0
18	27.0	4	97.0	88.0	2130	14.5
29	27.0	4	97.0	88.0	2130	14.5
394	44.0	4	97.0	52.0	2130	24.6
84	27.0	4	97.0	88.0	2100	16.5
346	32.3	4	97.0	67.0	2065	17.8
239	30.0	4	97.0	67.0	1985	16.4
102	26.0	4	97.0	46.0	1950	21.0
233	29.0	4	97.0	78.0	1940	14.5
19	26.0	4	97.0	46.0	1835	20.5
55	27.0	4	97.0	60.0	1834	19.0
203	29.5	4	97.0	71.0	1825	12.2
79	26.0	4	96.0	69.0	2189	18.0

304	37.3	4	91.0	69.0	2130	14.7
376	37.0	4	91.0	68.0	2025	18.2
385	38.0	4	91.0	67.0	1995	16.2
349	34.1	4	91.0	68.0	1985	16.0
377	31.0	4	91.0	68.0	1970	17.6
383	38.0	4	91.0	67.0	1965	15.0
384	32.0	4	91.0	67.0	1965	15.7
56	26.0	4	91.0	70.0	1955	20.5
329	44.6	4	91.0	67.0	1850	13.8
248	36.1	4	91.0	60.0	1800	16.4
181	33.0	4	91.0	53.0	1795	17.5
198	33.0	4	91.0	53.0	1795	17.4
326	43.4	4	90.0	48.0	2335	23.7
172	25.0	4	90.0	71.0	2223	16.5
146	28.0	4	90.0	75.0	2125	14.5
147	24.0	4	90.0	75.0	2108	15.5
325	44.3	4	90.0	48.0	2085	21.7
244	43.1	4	90.0	48.0	1985	21.5
175	29.0	4	90.0	70.0	1937	14.0
197	29.0	4	90.0	70.0	1937	14.2
348	37.7	4	89.0	62.0	2050	17.3
278	31.5	4	89.0	71.0	1990	14.9
310	38.1	4	89.0	60.0	1968	18.8
293	31.9	4	89.0	71.0	1925	14.0

332	29.8	4	89.0	62.0	1845	15.3
52	30.0	4	88.0	76.0	2065	14.5
322	46.6	4	86.0	65.0	2110	17.9
312	37.2	4	86.0	65.0	2019	16.4
294	34.1	4	86.0	65.0	1975	15.2
344	39.0	4	86.0	64.0	1875	16.4
324	40.8	4	85.0	65.0	2110	19.2
247	39.4	4	85.0	70.0	2070	18.6
195	29.0	4	85.0	52.0	2035	22.2
303	31.8	4	85.0	65.0	2020	19.2
204	32.0	4	85.0	70.0	1990	17.0
347	37.0	4	85.0	65.0	1975	19.4
220	33.5	4	85.0	70.0	1945	16.8
330	40.9	4	85.0	NaN	1835	17.3
145	32.0	4	83.0	61.0	2003	19.0
345	35.1	4	81.0	60.0	1760	16.1
243	21.5	3	80.0	110.0	2720	13.5
51	30.0	4	79.0	70.0	2074	19.5
151	31.0	4	79.0	67.0	2000	16.0
142	26.0	4	79.0	67.0	1963	15.5
129	31.0	4	79.0	67.0	1950	19.0
218	36.0	4	79.0	58.0	1825	18.6
343	39.1	4	79.0	58.0	1755	16.9
246	32.8	4	78.0	52.0	1985	19.4

144	31.0	4	76.0	52.0	1649	16.5
54	35.0	4	72.0	69.0	1613	18.0
131	32.0	4	71.0	65.0	1836	21.0
53	31.0	4	71.0	65.0	1773	19.0
334	23.7	3	70.0	100.0	2420	12.5
71	19.0	3	70.0	97.0	2330	13.5
111	18.0	3	70.0	90.0	2124	13.5
117	29.0	4	68.0	49.0	1867	19.5

	model_year	origin	name
95	73	usa	buick electra 225 custom
8	70	usa	pontiac catalina
13	70	usa	buick estate wagon (sw)
6	70	usa	chevrolet impala
94	73	usa	chrysler new yorker brougham
7	70	usa	plymouth fury iii
90	73	usa	mercury marquis brougham
67	72	usa	mercury marquis
5	70	usa	ford galaxie 500
44	71	usa	pontiac safari (sw)
103	73	usa	chevrolet impala
104	73	usa	ford country
43	71	usa	ford country squire (sw)
156	75	usa	pontiac catalina
39	71	usa	pontiac catalina brougham
91	73	usa	chevrolet caprice classic
70	72	usa	chrysler newport royal
63	72	usa	pontiac catalina
231	77	usa	chrysler cordoba
116	73	usa	pontiac grand prix
229	77	usa	pontiac grand prix lj
12	70	usa	chevrolet monte carlo
9	70	usa	amc ambassador dpl
42	71	usa	dodge monaco (sw)
10	70	usa	dodge challenger se
105	73	usa	plymouth custom suburb
25	70	usa	ford f250
292	79	usa	chrysler lebaron town @ country (sw)
96	73	usa	amc ambassador brougham
159	75	usa	ford ltd

92	73	usa	ford ltd
232	77	usa	ford thunderbird
190	76	usa	ford gran torino
40	71	usa	ford galaxie 500
65	72	usa	ford galaxie 500
290	79	usa	ford country squire (sw)
287	79	usa	mercury grand marquis
137	74	usa	buick century luxus (sw)
68	72	usa	buick lesabre custom
106	73	usa	oldsmobile vista cruiser
69	72	usa	oldsmobile delta 88 royale
157	75	usa	chevrolet bel air
212	76	usa	cadillac seville
289	79	usa	buick estate wagon (sw)
62	72	usa	chevrolet impala
38	71	usa	chevrolet impala
230	77	usa	chevrolet monte carlo landau
85	73	usa	buick century 350
115	73	usa	chevrolet monte carlo s
213	76	usa	chevy c10
87	73	usa	chevrolet malibu
298	79	usa	cadillac eldorado
364	81	usa	oldsmobile cutlass ls
1	70	usa	buick skylark 320
124	73	usa	oldsmobile omega
11	70	usa	plymouth 'cuda 340
158	75	usa	plymouth grand fury
138	74	usa	dodge coronet custom (sw)
27	70	usa	dodge d200
93	73	usa	plymouth fury gran sedan
188	76	usa	dodge coronet brougham
223	77	usa	dodge monaco brougham
64	72	usa	plymouth fury iii
41	71	usa	plymouth fury iii
265	78	usa	dodge magnum xe
75	72	usa	plymouth satellite custom (sw)
208	76	usa	plymouth volare premier v8
288	79	usa	dodge st. regis
89	73	usa	dodge coronet custom
215	76	usa	dodge d100
250	78	usa	dodge diplomat
2	70	usa	plymouth satellite
121	73	usa	dodge dart custom
26	70	usa	chevy c20
73	72	usa	chevrolet chevelle concours (sw)
0	70	usa	chevrolet chevelle malibu
187	76	usa	chevrolet chevelle malibu classic
221	77	usa	chevrolet caprice classic
285	79	usa	chevrolet caprice classic
262	78	usa	chevrolet monte carlo landau

28	70	usa	hi 1200d
140	74	usa	amc matador (sw)
189	76	usa	amc matador
72	72	usa	amc matador (sw)
66	72	usa	amc ambassador sst
86	73	usa	amc matador
3	70	usa	amc rebel sst
139	74	usa	ford gran torino (sw)
224	77	usa	mercury cougar brougham
74	72	usa	ford gran torino (sw)
136	74	usa	ford gran torino
88	73	usa	ford gran torino
214	76	usa	ford f108
286	79	usa	ford ltd landau
251	78	usa	mercury monarch ghia
4	70	usa	ford torino
264	78	usa	ford futura
166	75	usa	ford mustang ii
291	79	usa	chevrolet malibu classic (sw)
165	75	usa	chevrolet monza 2+2
387	82	usa	oldsmobile cutlass ciera (diesel)
222	77	usa	oldsmobile cutlass supreme
300	79	usa	oldsmobile cutlass salon brougham
249	78	usa	oldsmobile cutlass salon brougham
162	75	usa	amc matador
134	74	usa	amc matador
261	78	usa	amc concord d/l
202	76	usa	amc pacer d/l
45	71	usa	amc hornet sportabout (sw)
161	75	usa	chevrolet chevelle malibu
133	74	usa	chevrolet chevelle malibu classic
201	76	usa	pontiac ventura sj
200	76	usa	ford granada ghia
228	77	usa	ford granada
225	77	usa	chevrolet concours
153	75	usa	chevrolet nova
154	75	usa	mercury monarch
192	76	usa	chevrolet nova
128	74	usa	chevrolet nova
35	71	usa	chevrolet chevelle malibu
36	71	usa	ford torino 500
47	71	usa	pontiac firebird
98	73	usa	chevrolet nova custom
155	75	usa	ford maverick
48	71	usa	ford mustang
100	73	usa	ford maverick
37	71	usa	amc matador
283	79	usa	amc concord dl 6
176	75	usa	amc pacer
257	78	usa	amc concord

194	76	usa	amc hornet
99	73	usa	amc hornet
169	75	usa	amc gremlin
127	74	usa	amc hornet
389	82	usa	ford granada l
107	73	usa	amc gremlin
33	71	usa	amc gremlin
160	75	usa	buick century
252	78	usa	pontiac phoenix lj
263	78	usa	buick regal sport coupe (turbo)
226	77	usa	buick skylark
363	81	usa	buick century
258	78	usa	buick century special
280	79	usa	pontiac lemans v6
164	75	usa	buick skyhawk
163	75	usa	plymouth fury
199	76	usa	dodge aspen se
227	77	usa	plymouth volare custom
260	78	usa	dodge aspen
135	74	usa	plymouth satelllite sebring
366	81	usa	chrysler lebaron salon
34	71	usa	plymouth satelllite custom
256	78	usa	plymouth volare
316	80	usa	dodge aspen
284	79	usa	dodge aspen 6
152	75	usa	plymouth valiant custom
191	76	usa	plymouth valiant
97	73	usa	plymouth valiant
253	78	usa	chevrolet malibu
259	78	usa	mercury zephyr
365	81	usa	ford granada gl
193	76	usa	ford maverick
281	79	usa	mercury zephyr 6
254	78	usa	ford fairmont (auto)
126	74	usa	ford maverick
17	70	usa	ford maverick
16	70	usa	amc hornet
24	70	usa	amc gremlin
125	74	usa	plymouth duster
101	73	usa	plymouth duster
15	70	usa	plymouth duster
297	79	europe	mercedes benz 300d
386	82	usa	buick century limited
341	81	usa	chevrolet citation
307	79	usa	oldsmobile omega brougham
306	79	usa	chevrolet citation
174	75	usa	ford pinto
211	76	europe	mercedes-benz 280s
333	80	japan	datsum 280-zx
361	81	japan	toyota cressida

277	78	europa	peugeot 604sl
275	78	europa	volvo 264gl
210	76	japan	toyota mark ii
123	73	japan	toyota mark ii
323	80	usa	dodge colt
271	78	usa	plymouth sapporo
340	81	usa	dodge aries wagon (sw)
388	82	usa	chrysler lebaron medallion
113	73	usa	mercury capri v6
374	82	usa	amc concord dl
315	80	usa	amc concord
392	82	usa	chevrolet camaro
272	78	usa	oldsmobile starfire sx
234	77	usa	pontiac sunbird coupe
372	82	usa	pontiac phoenix
313	80	usa	chevrolet citation
305	79	usa	buick skylark limited
339	81	usa	buick skylark
308	79	usa	pontiac phoenix
328	80	europa	mercedes-benz 240d
362	81	japan	datsum 810 maxima
241	77	japan	datsum 810
360	81	europa	volvo diesel
390	82	japan	toyota celica gt
359	81	europa	peugeot 505s turbo diesel
299	79	europa	peugeot 504
336	80	usa	ford mustang cobra
282	79	usa	ford fairmont 4
314	80	usa	ford fairmont
373	82	usa	ford fairmont futura
393	82	usa	ford mustang gl
236	77	usa	ford mustang ii 2+2
255	78	usa	ford fairmont (man)
168	75	usa	ford pinto
170	75	usa	pontiac astro
184	76	usa	capri ii
206	76	usa	ford pinto
132	74	usa	chevrolet vega
46	71	usa	chevrolet vega (sw)
60	72	usa	chevrolet vega
109	73	usa	chevrolet vega
30	71	usa	chevrolet vega 2300
371	82	usa	dodge aries se
338	81	usa	plymouth reliant
342	81	usa	plymouth reliant
391	82	usa	dodge charger 2.2
395	82	usa	dodge rampage
318	80	japan	toyota corona liftback
171	75	japan	toyota corona
267	78	japan	toyota corona

270	78	japan	toyota celica gt liftback
274	78	europa	audi 5000
207	76	europa	volvo 245
335	80	europa	triumph tr7 coupe
130	74	usa	ford pinto
80	72	usa	ford pinto (sw)
112	73	usa	ford pinto
219	77	usa	plymouth arrow gs
61	72	usa	ford pinto runabout
49	71	usa	mercury capri 2000
327	80	europa	audi 5000s (diesel)
179	75	europa	volvo 244dl
76	72	europa	volvo 145e (sw)
120	73	europa	volvo 144ea
276	78	europa	saab 99gle
180	75	europa	saab 99le
296	79	usa	amc spirit dl
122	73	europa	saab 99le
242	77	europa	bmw 320i
77	72	europa	volkswagen 411 (sw)
23	70	europa	bmw 2002
209	76	europa	peugeot 504
78	72	europa	peugeot 504 (sw)
178	75	europa	peugeot 504
358	81	japan	mazda 626
396	82	usa	ford ranger
319	80	japan	mazda 626
82	72	japan	toyouta corona mark ii (sw)
149	74	japan	honda civic
380	82	japan	nissan stanza xe
397	82	usa	chevy s-10
357	81	japan	datsum 200sx
173	75	japan	datsum 710
320	80	japan	datsum 510 hatchback
273	78	japan	datsum 200-sx
268	78	japan	datsum 510
148	74	europa	fiat 124 tc
183	76	europa	opel 1900
118	73	europa	opel manta
50	71	europa	opel 1900
177	75	europa	audi 100ls
119	73	europa	audi 100ls
14	70	japan	toyota corona mark ii
57	72	japan	toyota corona hardtop
31	71	japan	toyota corona
368	82	usa	chevrolet cavalier wagon
367	82	usa	chevrolet cavalier
370	82	usa	pontiac j2000 se hatchback
369	82	usa	chevrolet cavalier 2-door
217	77	usa	buick opel isuzu deluxe

20	70	europa	peugeot 504
150	74	japan	subaru
110	73	japan	datsum 610
356	81	japan	toyota corolla
321	80	japan	toyota corolla
382	82	japan	toyota corolla
182	76	europa	fiat 131
21	70	europa	audi 100 ls
337	80	japan	honda accord
355	81	japan	honda prelude
381	82	japan	honda accord
269	78	usa	dodge omni
350	81	usa	plymouth horizon 4
301	79	usa	plymouth horizon
353	81	europa	volkswagen jetta
302	79	usa	plymouth horizon tc3
378	82	usa	plymouth horizon miser
375	82	europa	volkswagen rabbit l
22	70	europa	saab 99e
186	76	europa	renault 12tl
354	81	europa	renault 18i
352	81	usa	ford escort 2h
114	73	europa	fiat 124 sport coupe
185	76	usa	dodge colt
141	74	europa	audi fox
83	72	usa	dodge colt (sw)
196	76	usa	chevrolet woody
266	78	usa	chevrolet chevette
309	80	europa	vw rabbit
279	78	japan	honda accord lx
379	82	usa	mercury lynx l
311	80	usa	chevrolet chevette
238	77	usa	dodge colt m/m
237	77	usa	chevrolet chevette
32	71	usa	ford pinto
216	77	japan	honda accord cvcc
351	81	usa	ford escort 4w
295	79	usa	dodge colt hatchback custom
245	78	usa	ford fiesta
58	72	usa	dodge colt hardtop
143	74	europa	opel manta
81	72	japan	datsum 510 (sw)
108	73	japan	toyota carina
235	77	japan	toyota corolla liftback
59	72	europa	volkswagen type 3
240	77	europa	volkswagen dasher
317	80	europa	audi 4000
167	75	japan	toyota corolla
205	76	japan	toyota corolla
331	80	japan	subaru dl

18	70	japan	datson pl510
29	71	japan	datson pl510
394	82	europe	vw pickup
84	72	japan	toyota corolla 1600 (sw)
346	81	japan	subaru
239	77	japan	subaru dl
102	73	europe	volkswagen super beetle
233	77	europe	volkswagen rabbit custom
19	70	europe	volkswagen 1131 deluxe sedan
55	71	europe	volkswagen model 111
203	76	europe	volkswagen rabbit
79	72	europe	renault 12 (sw)
304	79	europe	fiat strada custom
376	82	japan	mazda glc custom l
385	82	japan	datson 310 gx
349	81	japan	mazda glc 4
377	82	japan	mazda glc custom
383	82	japan	honda civic
384	82	japan	honda civic (auto)
56	71	usa	plymouth cricket
329	80	japan	honda civic 1500 gl
248	78	japan	honda civic cvcc
181	75	japan	honda civic cvcc
198	76	japan	honda civic
326	80	europe	vw dasher (diesel)
172	75	europe	volkswagen dasher
146	74	usa	dodge colt
147	74	europe	fiat 128
325	80	europe	vw rabbit c (diesel)
244	78	europe	volkswagen rabbit custom diesel
175	75	europe	volkswagen rabbit
197	76	europe	vw rabbit
348	81	japan	toyota tercel
278	78	europe	volkswagen scirocco
310	80	japan	toyota corolla tercel
293	79	europe	vw rabbit custom
332	80	europe	vokswagen rabbit
52	71	europe	fiat 124b
322	80	japan	mazda glc
312	80	japan	datson 310
294	79	japan	maxda glc deluxe
344	81	usa	plymouth champ
324	80	japan	datson 210
247	78	japan	datson b210 gx
195	76	usa	chevrolet chevette
303	79	japan	datson 210
204	76	japan	datson b-210
347	81	japan	datson 210 mpg
220	77	japan	datson f-10 hatchback
330	80	europe	renault lecar deluxe

145	74	japan	datsum 710
345	81	japan	honda civic 1300
243	77	japan	mazda rx-4
51	71	europe	peugeot 304
151	74	europe	fiat x1.9
142	74	europe	volkswagen dasher
129	74	japan	datsum b210
218	77	europe	renault 5 gtl
343	81	japan	toyota starlet
246	78	japan	mazda glc deluxe
144	74	japan	toyota corona
54	71	japan	datsum 1200
131	74	japan	toyota corolla 1200
53	71	japan	toyota corolla 1200
334	80	japan	mazda rx-7 gs
71	72	japan	mazda rx2 coupe
111	73	japan	maxda rx3
117	73	europe	fiat 128

```
car.describe(include='all')
```

	mpg	cylinders	displacement	horsepower	weight
\count	398.000000	398.000000	398.000000	392.000000	398.000000
unique	NaN	NaN	NaN	NaN	NaN
top	NaN	NaN	NaN	NaN	NaN
freq	NaN	NaN	NaN	NaN	NaN
mean	23.514573	5.454774	193.425879	104.469388	2970.424623
std	7.815984	1.701004	104.269838	38.491160	846.841774
min	9.000000	3.000000	68.000000	46.000000	1613.000000
25%	17.500000	4.000000	104.250000	75.000000	2223.750000
50%	23.000000	4.000000	148.500000	93.500000	2803.500000
75%	29.000000	8.000000	262.000000	126.000000	3608.000000
max	46.600000	8.000000	455.000000	230.000000	5140.000000

	acceleration	model_year	origin	name
count	398.000000	398.000000	398	398
unique	NaN	NaN	3	305

top	NaN	NaN	usa	ford pinto
freq	NaN	NaN	249	6
mean	15.568090	76.010050	NaN	NaN
std	2.757689	3.697627	NaN	NaN
min	8.000000	70.000000	NaN	NaN
25%	13.825000	73.000000	NaN	NaN
50%	15.500000	76.000000	NaN	NaN
75%	17.175000	79.000000	NaN	NaN
max	24.800000	82.000000	NaN	NaN

car.T

	0	1	\
mpg	18.0	15.0	
cylinders	8	8	
displacement	307.0	350.0	
horsepower	130.0	165.0	
weight	3504	3693	
acceleration	12.0	11.5	
model_year	70	70	
origin	usa	usa	
name	chevrolet chevelle malibu	buick skylark 320	

	2	3	4	\
mpg	18.0	16.0	17.0	
cylinders	8	8	8	
displacement	318.0	304.0	302.0	
horsepower	150.0	150.0	140.0	
weight	3436	3433	3449	
acceleration	11.0	12.0	10.5	
model_year	70	70	70	
origin	usa	usa	usa	
name	plymouth satellite	amc rebel sst	ford torino	

	5	6	7	\
mpg	15.0	14.0	14.0	
cylinders	8	8	8	
displacement	429.0	454.0	440.0	
horsepower	198.0	220.0	215.0	
weight	4341	4354	4312	
acceleration	10.0	9.0	8.5	
model_year	70	70	70	
origin	usa	usa	usa	
name	ford galaxie 500	chevrolet impala	plymouth fury iii	

	8	9	...	\
mpg	14.0	15.0	...	
cylinders	8	8	...	
displacement	455.0	390.0	...	
horsepower	225.0	190.0	...	

weight	4425	3850	...
acceleration	10.0	8.5	...
model_year	70	70	...
origin	usa	usa	...
name	pontiac catalina	amc ambassador dpl	...
		388	389
390 \			
mpg		26.0	22.0
32.0			
cylinders		4	6
4			
displacement		156.0	232.0
144.0			
horsepower		92.0	112.0
96.0			
weight		2585	2835
2665			
acceleration		14.5	14.7
13.9			
model_year		82	82
82			
origin		usa	usa
japan			
name	chrysler lebaron medallion	ford granada l	toyota
celica gt			
	391	392	393
394 \			
mpg	36.0	27.0	27.0
44.0			
cylinders	4	4	4
4			
displacement	135.0	151.0	140.0
97.0			
horsepower	84.0	90.0	86.0
52.0			
weight	2370	2950	2790
2130			
acceleration	13.0	17.3	15.6
24.6			
model_year	82	82	82
82			
origin	usa	usa	usa
europa			
name	dodge charger 2.2	chevrolet camaro	ford mustang gl
pickup			vw
	395	396	397
mpg	32.0	28.0	31.0

cylinders	4	4	4
displacement	135.0	120.0	119.0
horsepower	84.0	79.0	82.0
weight	2295	2625	2720
acceleration	11.6	18.6	19.4
model_year	82	82	82
origin	usa	usa	usa
name	dodge rampage	ford ranger	chevy s-10

[9 rows x 398 columns]