EAS 508 Assignment 1– Lolla Aditya Srivatsav and 50559685 here

```
library(ISLR2)
library(ggplot2)
```

In case you need to write math expression, please use the quick tutorial as the reference:
https://www1.cmc.edu/pages/faculty/aaksoy/latex/latexthree.html
(https://www1.cmc.edu/pages/faculty/aaksoy/latex/latexthree.html)

Question 1

[5 pts] Describe a situation or problem from your job, everyday life, current events, etc., for which a classification model would be appropriate. List some (up to 5) predictors that you might use.

Solution to Question 1 There are many events which we can use in everyday life to classify the models or events in the market 1. Credit Score: A high Credit will have a secured loan where there will be low risk 2. Job Status and Secured House: A job with fixed income can pay their debts for the long time and any business can be filed in the UCC1 and UCC3 and approved from the jurisdiction 3.Aerospace Manufacturing: An Aerospace or Air Force plane manufacturing companies can plot the details for the new flights and get the raw data requirements, budget can be classified with the classification models and prepare the data for the further process. 4. Debt-to-Income Ratio: A lower ratio suggests that the applicant has manageable debt relative to their income. 5.Loan Amount: Larger loan amounts might increase the risk of default, especially if they exceed the applicant's capacity to repay.

Question 2.

[5 pts] What's the main difference between supervised and unsupervised learning? Give one benefit and drawback for supervised and unsupervised learning, respectively.

Solution to Question 2

`1. Supervised Learning: In supervised Machine Learning, the algorithm is trained on a dataset that is labeled, meaning each input is associated with corresponding target output. 2.Benefit: Supervised Machine learning is effective for tasks where the desired output is known, making it suitable for the tasks like classification and regression 3. Drawback: One drawback is that it relies heavily on the availability of the labeled data, which can be time consuming expensive to acquire, especially for large datasets or niche domains

2. Unsupervised Learning:
3. In Unsupervised learning, the algorithm is trained on unlabeled data, and its goal is to find is to find hidden patterns or structures within the data.
4. Benefit: Unsupervised learning can uncover insights from data without the need for labeled examples, making it useful for exploratory data Analysis, clustering and anomaly detection.
5. Drawback:Since unsupervised learning lacks explicit labels, evaluating the performance of the model can be more challenging compared to supervised learning. Additionally, interpreting the results may require human intervention to understand the discovered patterns or clusters.

Question 3 [18 pts]

This question relates to the College data set, which can be found in the file College.csv in the folder. It contains a number of variables for 777 different universities and colleges in the US. The variables are

- Private : Public/private indicator
- Apps : Number of applications received
- Accept : Number of applicants accepted
- Enroll : Number of new students enrolled
- Top10perc : New students from top 10 % of high school class
- Top25perc : New students from top 25 % of high school class
- F.Undergrad : Number of full-time undergraduates
- P.Undergrad : Number of part-time undergraduates
- Outstate : Out-of-state tuition
- Room.Board : Room and board costs
- Books : Estimated book costs
- Personal : Estimated personal spending
- PhD : Percent of faculty with Ph.D.'s
- Terminal : Percent of faculty with terminal degree
- S.F.Ratio : Student/faculty ratio
- perc.alumni : Percent of alumni who donate

- Expend : Instructional expenditure per student
- Grad.Rate : Graduation rate

Before reading the data into R, it can be viewed in Excel or a text editor.

- (a). [2 pts] Use the read.csv() function to read the data into R. Call the loaded data college. Make sure that you have the directory set to the correct location for the data.

Solution to Question 3(a) `put your solution here`

```
# Read.csv file for the college data
file_path <- "/Users/adityasrivatsav/Documents/EAS508/HW 1/College.csv"
College <- read.csv(file_path)
```

- (b). [2 pts] Look at the data using the View() function. You should notice that the first column is just the name of each university. We don't really want R to treat this as data. However, it may be handy to have these names for later. Try the following commands:

  - `rownames(college) <- college[,1 ]`

  - `View(college)`

You should see that there is now a row.names column with the name of each
university recorded. This means that R has given each row a name corresponding to the appropriate university. R will not try to perform calculations on the row names. However, we still need to eliminate the first column in the data where the names are stored. Try

```
>college <- college[, -1]
```

```
> View(college)
```

Now you should see that the first data column is Private. Note that another column labeled row.names now appears before the Private column. However, this is not a data column but rather the name that R is giving to each row.

Solution to Question 3(b)

`put your solution here`

```
# Inspect the structure to confirm the correct column (assuming it's still the first column)
head(College)
```

```
##                                 X Private Apps Accept Enroll Top10perc Top25perc
## 1 Abilene Christian University      Yes 1660   1232    721        23        52
## 2            Adelphi University      Yes 2186   1924    512        16        29
## 3                 Adrian College      Yes 1428   1097    336        22        50
## 4            Agnes Scott College      Yes  417    349    137        60        89
## 5       Alaska Pacific University      Yes  193    146     55        16        44
## 6              Albertson College      Yes  587    479    158        38        62
##   F.Undergrad P.Undergrad Outstate Room.Board Books Personal PhD Terminal
## 1        2885         537     7440       3300   450     2200  70       78
## 2        2683        1227    12280       6450   750     1500  29       30
## 3        1036          99    11250       3750   400     1165  53       66
## 4         510          63    12960       5450   450      875  92       97
## 5         249         869     7560       4120   800     1500  76       72
## 6         678          41    13500       3335   500      675  67       73
##   S.F.Ratio perc.alumni Expend Grad.Rate
## 1      18.1          12   7041        60
## 2      12.2          16  10527        56
## 3      12.9          30   8735        54
## 4       7.7          37  19016        59
## 5      11.9           2  10922        15
## 6       9.4          11   9727        55
```

```
# Assuming the first column is correct and contains unique university names
# Let's ensure uniqueness
if(!anyDuplicated(College[,1])) {
  rownames(College) <- as.character(College[,1])
  College <- College[, -1] # Remove the first column after setting row names
} else {
  print("The first column contains duplicate values. Please check the data.")
}

# Now, you can safely use View(college) to inspect the modified dataframe
View(College)
```

- (c).

- (i). [2 pts] Use the `summary()` function to produce a numerical summary of the variables in the data set.

```
summary(College)
```

```
##    Private               Apps           Accept          Enroll
## Length:777         Min.   :   81   Min.   :   72   Min.   :  35
## Class :character   1st Qu.:  776   1st Qu.:  604   1st Qu.: 242
## Mode  :character   Median : 1558   Median : 1110   Median : 434
##                    Mean   : 3002   Mean   : 2019   Mean   : 780
##                    3rd Qu.: 3624   3rd Qu.: 2424   3rd Qu.: 902
##                    Max.   :48094   Max.   :26330   Max.   :6392
##    Top10perc       Top25perc      F.Undergrad     P.Undergrad
## Min.   : 1.00   Min.   :  9.0   Min.   :  139   Min.   :    1.0
## 1st Qu.:15.00   1st Qu.: 41.0   1st Qu.:  992   1st Qu.:   95.0
## Median :23.00   Median : 54.0   Median : 1707   Median :  353.0
## Mean   :27.56   Mean   : 55.8   Mean   : 3700   Mean   :  855.3
## 3rd Qu.:35.00   3rd Qu.: 69.0   3rd Qu.: 4005   3rd Qu.:  967.0
## Max.   :96.00   Max.   :100.0   Max.   :31643   Max.   :21836.0
##    Outstate       Room.Board       Books          Personal
## Min.   : 2340   Min.   :1780   Min.   :  96.0   Min.   : 250
## 1st Qu.: 7320   1st Qu.:3597   1st Qu.: 470.0   1st Qu.: 850
## Median : 9990   Median :4200   Median : 500.0   Median :1200
## Mean   :10441   Mean   :4358   Mean   : 549.4   Mean   :1341
## 3rd Qu.:12925   3rd Qu.:5050   3rd Qu.: 600.0   3rd Qu.:1700
## Max.   :21700   Max.   :8124   Max.   :2340.0   Max.   :6800
##      PhD           Terminal       S.F.Ratio       perc.alumni
## Min.   :  8.00   Min.   : 24.0   Min.   : 2.50   Min.   : 0.00
## 1st Qu.: 62.00   1st Qu.: 71.0   1st Qu.:11.50   1st Qu.:13.00
## Median : 75.00   Median : 82.0   Median :13.60   Median :21.00
## Mean   : 72.66   Mean   : 79.7   Mean   :14.09   Mean   :22.74
## 3rd Qu.: 85.00   3rd Qu.: 92.0   3rd Qu.:16.50   3rd Qu.:31.00
## Max.   :103.00   Max.   :100.0   Max.   :39.80   Max.   :64.00
##     Expend        Grad.Rate
## Min.   : 3186   Min.   : 10.00
## 1st Qu.: 6751   1st Qu.: 53.00
## Median : 8377   Median : 65.00
## Mean   : 9660   Mean   : 65.46
## 3rd Qu.:10830   3rd Qu.: 78.00
## Max.   :56233   Max.   :118.00
```

- (ii). [2 pts] Use the `pairs()` function to produce a scatterplot matrix of the first ten columns or variables of the data. Recall that you can reference the first ten columns of a matrix A using A[,1:10]. Briefly state your observations.

```
#Read the csv file
data <- read.csv("College.csv")
#Summarize the data
summary(data)
```

```
##       X               Private              Apps            Accept
## Length:777         Length:777         Min.   :   81    Min.   :   72
## Class :character   Class :character   1st Qu.:  776    1st Qu.:  604
## Mode  :character   Mode  :character   Median : 1558    Median : 1110
##                                       Mean   : 3002    Mean   : 2019
##                                       3rd Qu.: 3624    3rd Qu.: 2424
##                                       Max.   :48094    Max.   :26330
##     Enroll          Top10perc        Top25perc        F.Undergrad
## Min.   :  35    Min.   : 1.00    Min.   :  9.0    Min.   :  139
## 1st Qu.: 242    1st Qu.:15.00    1st Qu.: 41.0    1st Qu.:  992
## Median : 434    Median :23.00    Median : 54.0    Median : 1707
## Mean   : 780    Mean   :27.56    Mean   : 55.8    Mean   : 3700
## 3rd Qu.: 902    3rd Qu.:35.00    3rd Qu.: 69.0    3rd Qu.: 4005
## Max.   :6392    Max.   :96.00    Max.   :100.0    Max.   :31643
##   P.Undergrad        Outstate       Room.Board        Books
## Min.   :    1.0   Min.   : 2340    Min.   :1780    Min.   :  96.0
## 1st Qu.:   95.0   1st Qu.: 7320    1st Qu.:3597    1st Qu.: 470.0
## Median :  353.0   Median : 9990    Median :4200    Median : 500.0
## Mean   :  855.3   Mean   :10441    Mean   :4358    Mean   : 549.4
## 3rd Qu.:  967.0   3rd Qu.:12925    3rd Qu.:5050    3rd Qu.: 600.0
## Max.   :21836.0   Max.   :21700    Max.   :8124    Max.   :2340.0
##     Personal           PhD            Terminal        S.F.Ratio
## Min.   : 250     Min.   :  8.00    Min.   : 24.0    Min.   : 2.50
## 1st Qu.: 850     1st Qu.: 62.00    1st Qu.: 71.0    1st Qu.:11.50
## Median :1200     Median : 75.00    Median : 82.0    Median :13.60
## Mean   :1341     Mean   : 72.66    Mean   : 79.7    Mean   :14.09
## 3rd Qu.:1700     3rd Qu.: 85.00    3rd Qu.: 92.0    3rd Qu.:16.50
## Max.   :6800     Max.   :103.00    Max.   :100.0    Max.   :39.80
##   perc.alumni        Expend          Grad.Rate
## Min.   : 0.00    Min.   : 3186    Min.   : 10.00
## 1st Qu.:13.00    1st Qu.: 6751    1st Qu.: 53.00
## Median :21.00    Median : 8377    Median : 65.00
## Mean   :22.74    Mean   : 9660    Mean   : 65.46
## 3rd Qu.:31.00    3rd Qu.:10830    3rd Qu.: 78.00
## Max.   :64.00    Max.   :56233    Max.   :118.00
```

```
#Showing first 10 columns as the matrix
pairs(data[, sapply(data[1:10], is.numeric)])
```
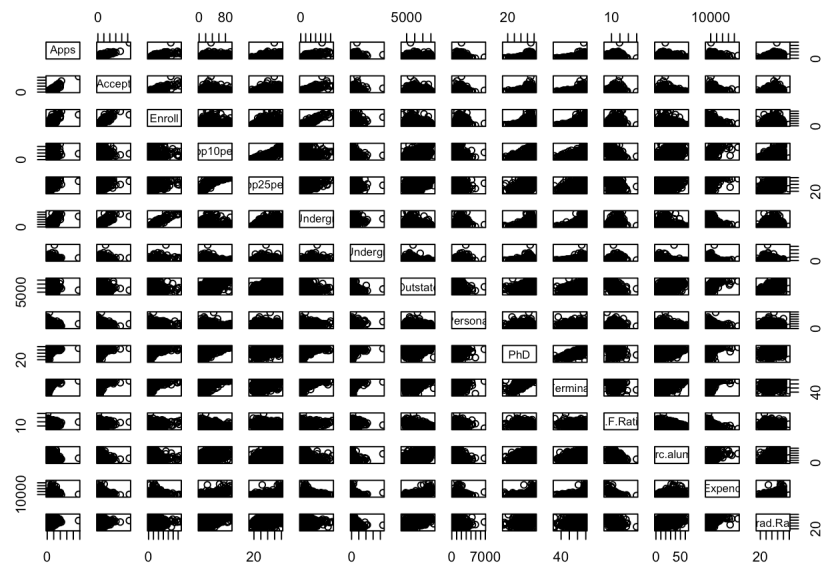

- (iii). [3 pts] Use the `plot()` function to produce side-by-side boxplots of Outstate versus Private. Briefly state your observations.

```
boxplot(Outstate ~ Private, data = data,
        xlab = "Private",
        ylab = "Outstate",
        main = "Boxplot of Outstate by Private",
        col = c("blue","green"))
```

Boxplot of Outstate by Private
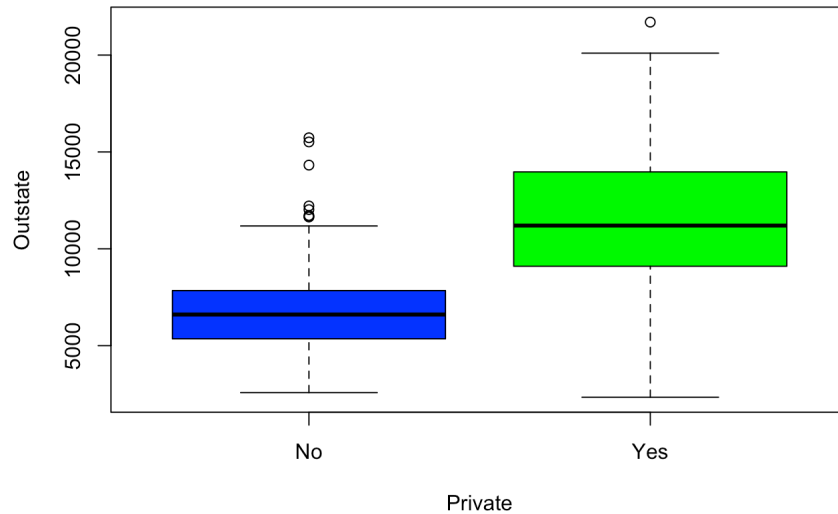
- (iv).[2 pts] Create a new qualitative variable, called Elite, by binning the Top10perc variable. We are going to divide universities into two groups based on whether or not the proportion of students coming from the top 10 % of their high school classes exceeds 50 %.

```
> Elite <- rep("No", nrow(college))

> Elite[college$Top10perc > 50] <- "Yes"

> Elite <- as.factor(Elite)

> college <- data.frame(college , Elite)
```

Use the `summary()` function to see how many elite universities there are. Now use the `plot()` function to produce side-by-side boxplots of Outstate versus Elite.

```
Elite <- rep("No", nrow(College))
Elite[College$Top10perc > 50] <- "Yes"
Elite <- as.factor(Elite)

#Add Elite Variables to the College DataFrame
College <- data.frame(College, Elite)

#Summary of Elite Universities
summary(College$Elite)
```

```
##  No Yes
## 699  78
```

```
# Plot side-by-side boxplots of Outstate versus Elite
boxplot(Outstate ~ Elite,
data = College,
xlab = "Elite",
ylab = "Outstate",
main = "Boxplot of Outstate by Elite",
col = c("blue", "green"))
```

Boxplot of Outstate by Elite
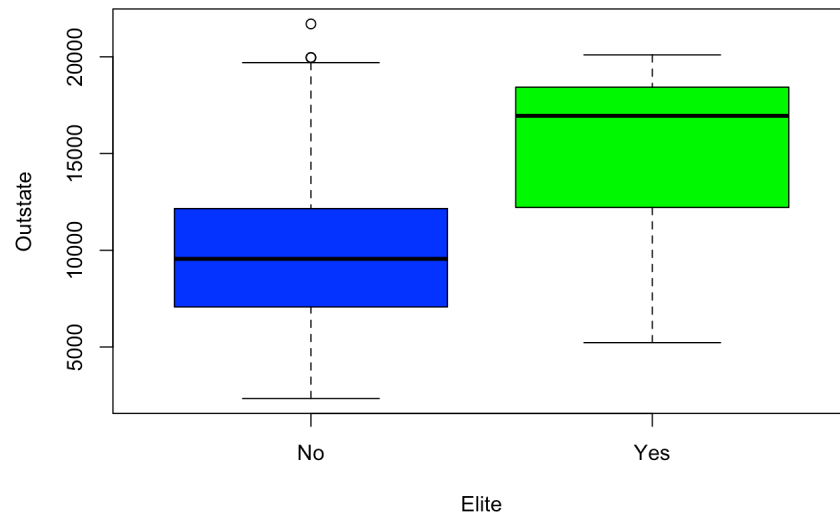
- (v)[2 pts] Use the hist() function to produce some histograms with differing numbers of bins for a few of the quantitative variables. You may find the command `par(mfrow = c(2, 2))` useful: it will divide the print window into four regions so that four plots can be made simultaneously. Modifying the arguments to this function will divide the screen in other ways.

```
# Set up the plot window to display four plots simultaneously in 2 * 2 Grid
par(mfrow = c(2, 2))
hist(College$Apps, breaks = 10, main = "Histogram of Apps (10 bins)")
hist(College$Accept, breaks = 20, main = "Histogram of Accept (20 bins)")
hist(College$Enroll, breaks = 30, main = "Histogram of Enroll (30 bins)")
hist(College$Outstate, breaks = 40, main = "Histogram of OutState (40 bins)")
```
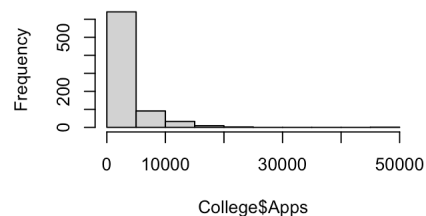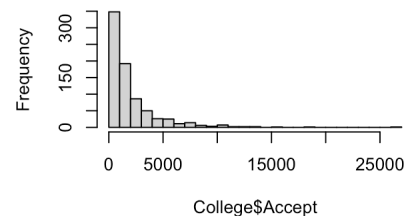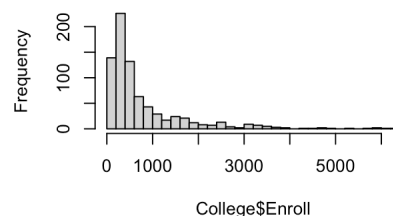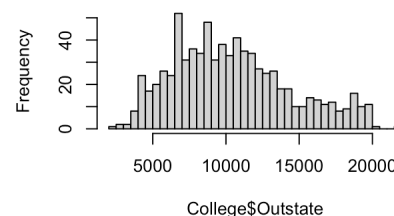

- (vi)[3 pts]. Continue exploring the data, and provide a brief summary of what you discover.

```
#university names with the most students in the top 10% of the class
row.names(College)[which.max(College$Top10perc)]
```

```
## [1] "Massachusetts Institute of Technology"
```

```
acceptance_rate <-College$Accept / College$Apps
#Lowest Acceptance Rate
row.names(College)[which.min(College$Top10perc)]
```

```
## [1] "Center for Creative Studies"
```

```
#Highest Acceptance Rate
row.names(College)[which.max(College$Top10perc)]
```

```
## [1] "Massachusetts Institute of Technology"
```

```
plot(Grad.Rate ~ Outstate, data = College)
```
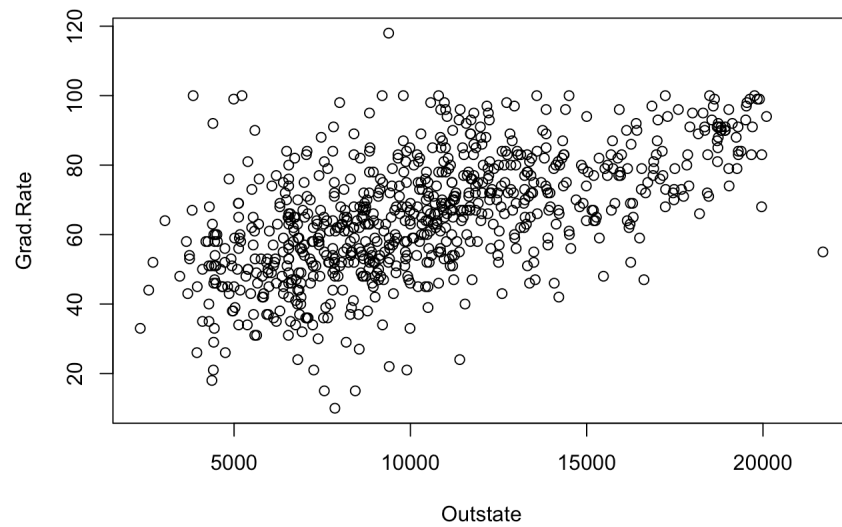


```
#College with Low Acceptance Raate
plot(S.F.Ratio ~ I(Accept/Apps), data = College)
```
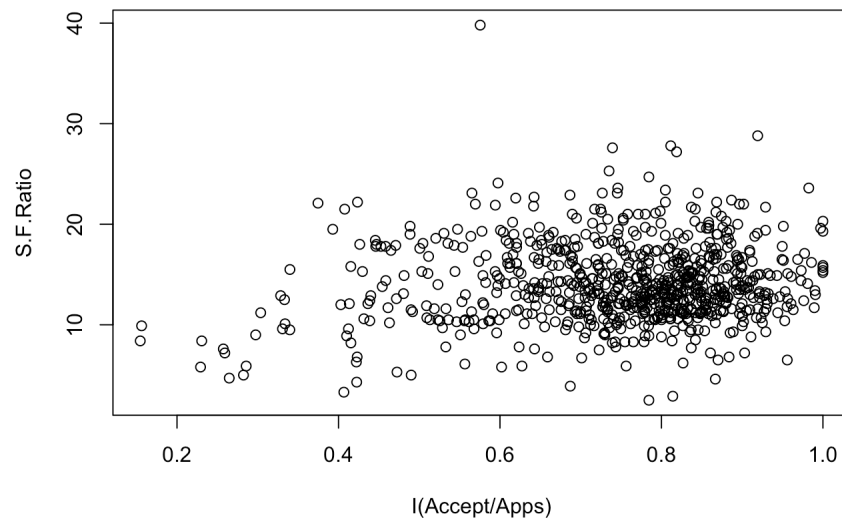
```
#The highest Graduation Rate
plot(Grad.Rate ~ Top10perc, data = College)
```
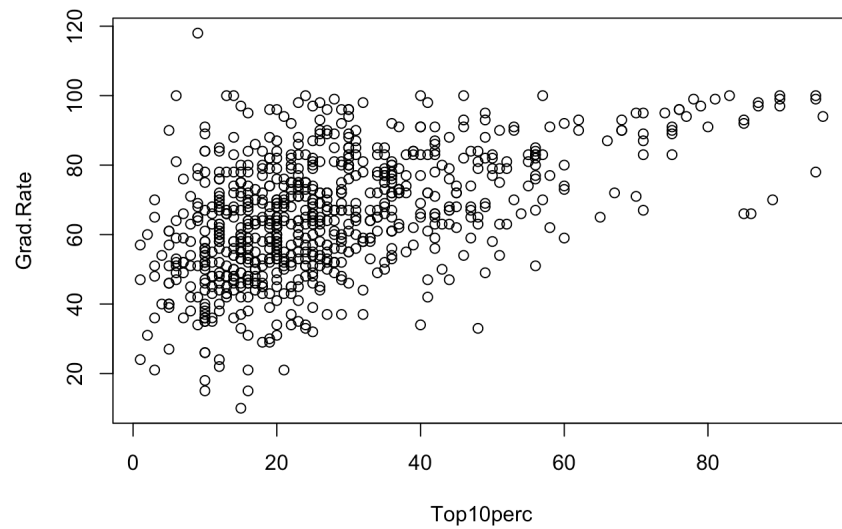

Question 4 [16 pts]

This exercise involves the Boston housing data set.

- (a).[2 pts] To begin, load in the Boston data set. The Boston data set is part of the ISLR2 library.

```
> library(ISLR2)
```

Now the data set is contained in the object Boston.

```
> Boston
```

Read about the data set:

```
> ?Boston
```

How many rows are in this data set? How many columns? What do the rows and columns represent?

```
library(ISLR2)
data(Boston)
nrow(Boston)
```

```
## [1] 506
```

```
ncol(Boston)
```

```
## [1] 13
```

```
?Boston
str(Boston)
```

```
## 'data.frame':    506 obs. of  13 variables:
##  $ crim   : num  0.00632 0.02731 0.02729 0.03237 0.06905 ...
##  $ zn     : num  18 0 0 0 0 12.5 12.5 12.5 12.5 ...
##  $ indus  : num  2.31 7.07 7.07 2.18 2.18 2.18 7.87 7.87 7.87 7.87 ...
##  $ chas   : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ nox    : num  0.538 0.469 0.469 0.458 0.458 0.458 0.524 0.524 0.524 0.524 ...
##  $ rm     : num  6.58 6.42 7.18 7 7.15 ...
##  $ age    : num  65.2 78.9 61.1 45.8 54.2 58.7 66.6 96.1 100 85.9 ...
##  $ dis    : num  4.09 4.97 4.97 6.06 6.06 ...
##  $ rad    : int  1 2 2 3 3 3 5 5 5 5 ...
##  $ tax    : num  296 242 242 222 222 222 311 311 311 311 ...
##  $ ptratio: num  15.3 17.8 17.8 18.7 18.7 18.7 15.2 15.2 15.2 15.2 ...
##  $ lstat  : num  4.98 9.14 4.03 2.94 5.33 ...
##  $ medv   : num  24 21.6 34.7 33.4 36.2 28.7 22.9 27.1 16.5 18.9 ...
```

- (b).[2 pts] Make some pairwise scatterplots of the predictors (columns) in this data set. Describe your findings.

```
pairs(Boston)
```
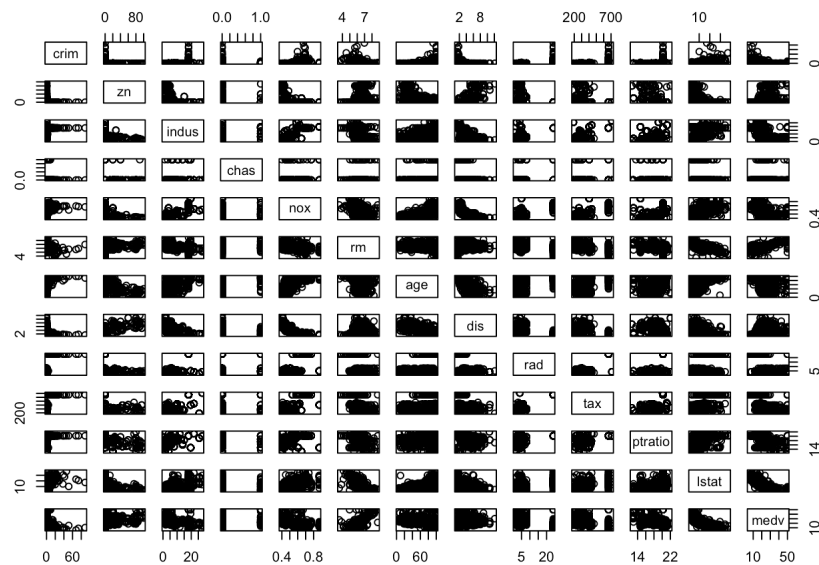

- (c).[2 pts] Are any of the predictors associated with per capita crime rate? If so, explain the relationship.

```
plot(crim ~ age, data = Boston, log = "xy")
```
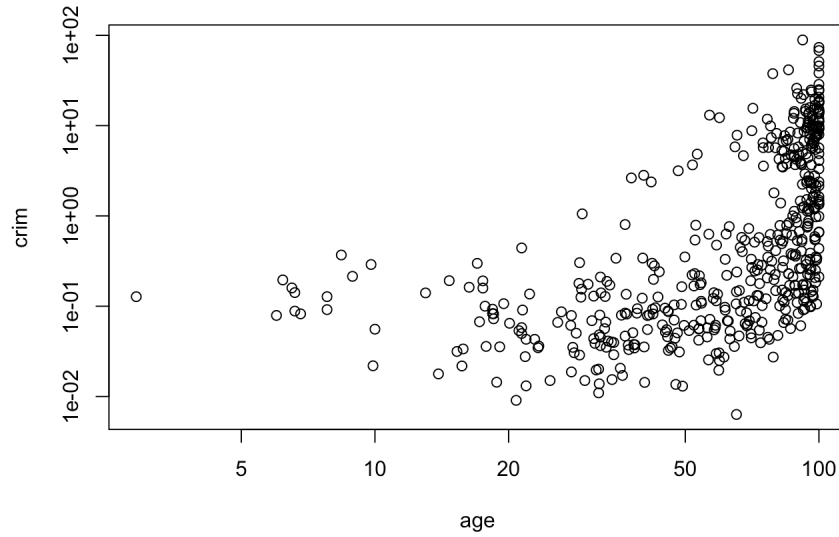
```
#Closer to work area crime rate
plot(crim ~ dis, data = Boston, log = "xy")
```
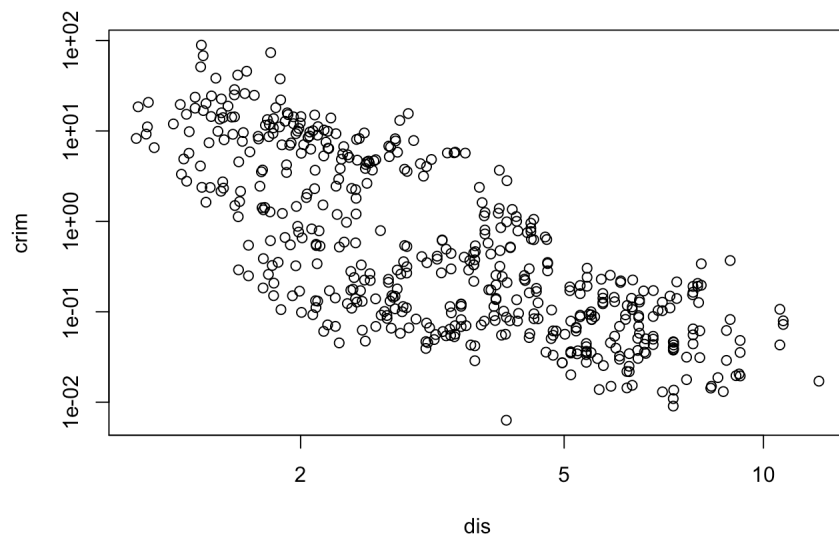


```
#Higher index of accessibility to radial highways, more crime
plot(crim ~ rad, data = Boston, log = "xy")
```
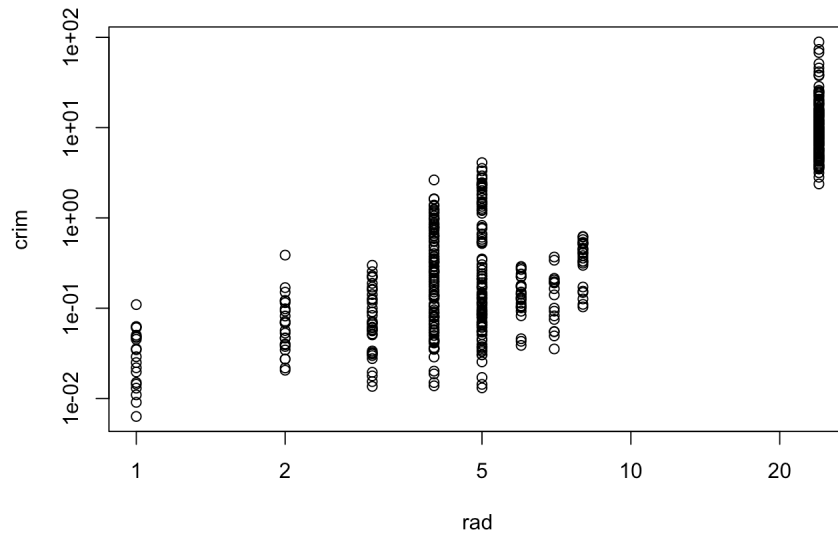
```
#as box plots, since rad appears categorial
plot(crim ~ as.factor(rad),
     log = "y",
     data = Boston,
     xlab = "Accessibility to radial Highways",
     ylab = "log of crime")
```
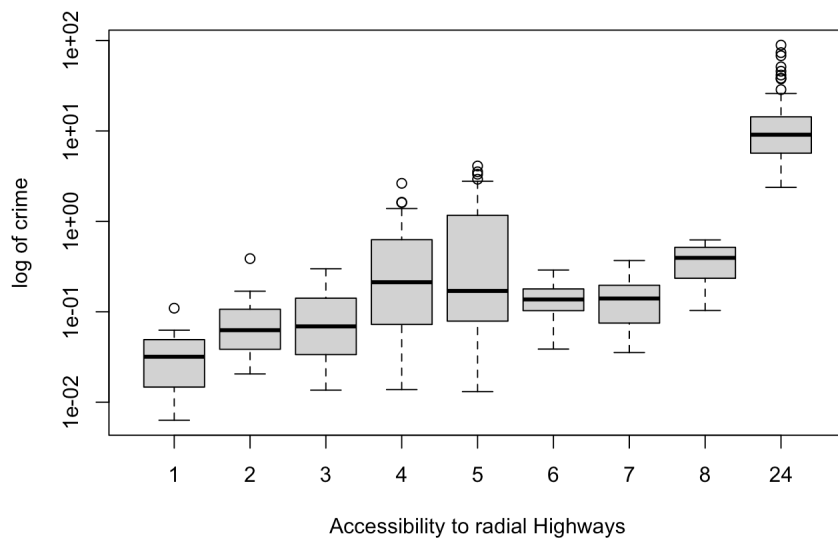


```
#Tax is higher, crime is more
plot(crim ~ tax, data = Boston, log = "xy")
```
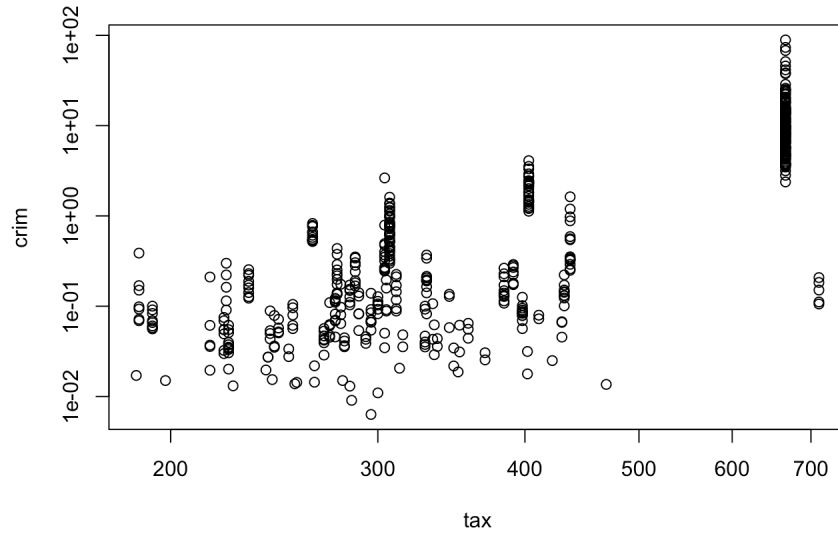
```
# Higher Pupil:teacher ratio, more crime
plot(crim ~ ptratio, log = "xy", data =  Boston)
```
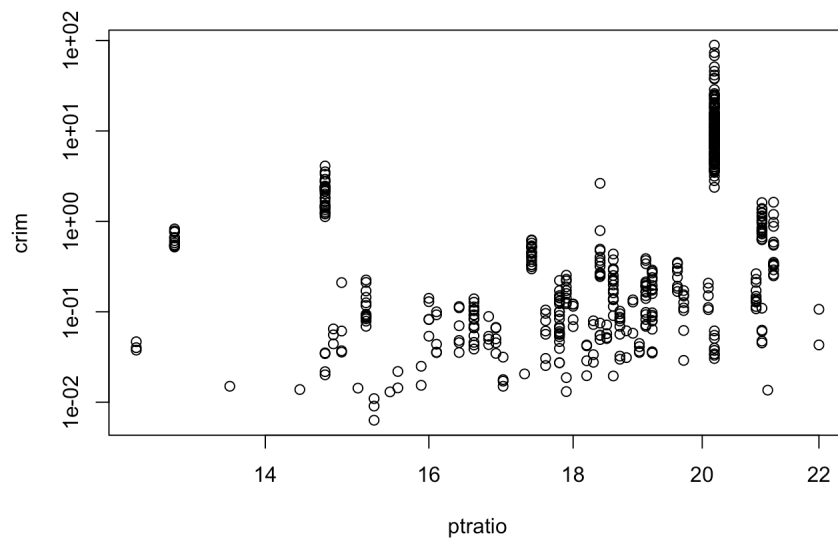


```
#Correlations
cor(Boston)
```

```
##             crim         zn       indus         chas         nox
## crim    1.00000000 -0.20046922  0.40658341 -0.055891582  0.42097171
## zn     -0.20046922  1.00000000 -0.53382819 -0.042696719 -0.51660371
## indus   0.40658341 -0.53382819  1.00000000  0.062938027  0.76365145
## chas   -0.05589158 -0.04269672  0.06293803  1.000000000  0.09120281
## nox     0.42097171 -0.51660371  0.76365145  0.091202807  1.00000000
## rm     -0.21924670  0.31199059 -0.39167585  0.091251225 -0.30218819
## age     0.35273425 -0.56953734  0.64477851  0.086517774  0.73147010
## dis    -0.37967009  0.66440822 -0.70802699 -0.099175780 -0.76923011
## rad     0.62550515 -0.31194783  0.59512927 -0.007368241  0.61144056
## tax     0.58276431 -0.31456332  0.72076018 -0.035586518  0.66802320
## ptratio 0.28994558 -0.39167855  0.38324756 -0.121515174  0.18893268
## lstat   0.45562148 -0.41299457  0.60379972 -0.053929298  0.59087892
## medv   -0.38830461  0.36044534 -0.48372516  0.175260177 -0.42732077
##                rm        age         dis         rad         tax    ptratio
## crim   -0.21924670  0.35273425 -0.37967009  0.625505145  0.58276431  0.2899456
## zn      0.31199059 -0.56953734  0.66440822 -0.311947826 -0.31456332 -0.3916785
## indus  -0.39167585  0.64477851 -0.70802699  0.595129275  0.72076018  0.3832476
## chas    0.09125123  0.08651777 -0.09917578 -0.007368241 -0.03558652 -0.1215152
## nox    -0.30218819  0.73147010 -0.76923011  0.611440563  0.66802320  0.1889327
## rm      1.00000000 -0.24026493  0.20524621 -0.209846668 -0.29204783 -0.3555015
## age    -0.24026493  1.00000000 -0.74788054  0.456022452  0.50645559  0.2615150
## dis     0.20524621 -0.74788054  1.00000000 -0.494587930 -0.53443158 -0.2324705
## rad    -0.20984667  0.45602245 -0.49458793  1.000000000  0.91022819  0.4647412
## tax    -0.29204783  0.50645559 -0.53443158  0.910228189  1.00000000  0.4608530
## ptratio -0.35550149  0.26151501 -0.23247054  0.464741179  0.46085304  1.0000000
## lstat  -0.61380827  0.60233853 -0.49699583  0.488676335  0.54399341  0.3740443
## medv    0.69535995 -0.37695457  0.24992873 -0.381626231 -0.46853593 -0.5077867
##             lstat       medv
## crim    0.4556215 -0.3883046
## zn     -0.4129946  0.3604453
## indus   0.6037997 -0.4837252
## chas   -0.0539293  0.1752602
## nox     0.5908789 -0.4273208
## rm     -0.6138083  0.6953599
## age     0.6023385 -0.3769546
## dis    -0.4969958  0.2499287
## rad     0.4886763 -0.3816262
## tax     0.5439934 -0.4685359
## ptratio 0.3740443 -0.5077867
## lstat   1.0000000 -0.7376627
## medv   -0.7376627  1.0000000
```

- (d)[2 pts] Do any of the census tracts of Boston appear to have particularly high crime rates? Tax rates? Pupil-teacher ratios? Comment on the range of each predictor.

```
par(mfrow = c(1, 3))
hist(Boston$crim[Boston$crim > 1], breaks = 25)
hist(Boston$tax, breaks = 25)
hist(Boston$ptratio, breaks =  25)
```

istogram of Boston$crim[Boston$crin   **Histogram of Boston$tax**   **Histogram of Boston$ptratio**
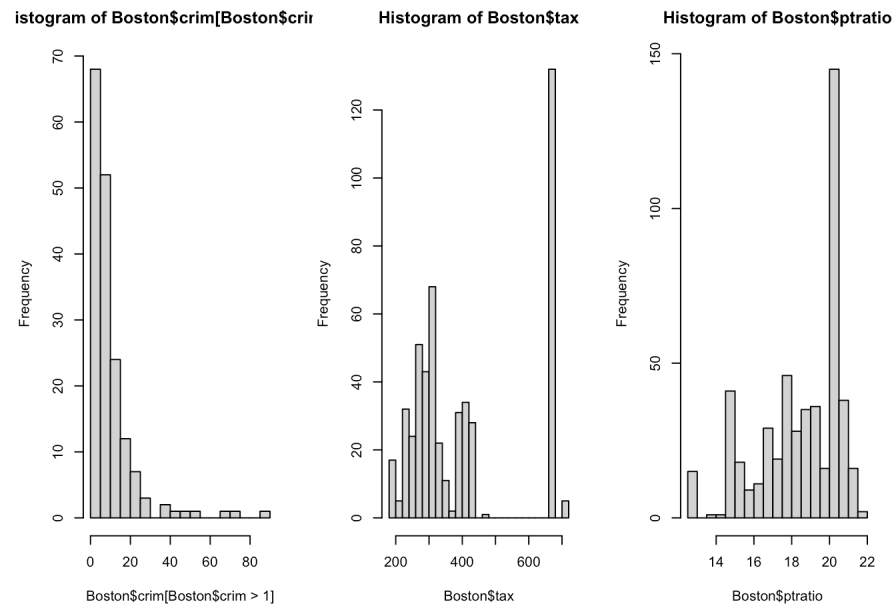
- (e)[1 pt] How many of the census tracts in this data set bound the Charles river?

```
sum(Boston$chas == 1)
```

```
## [1] 35
```

- (f)[1 pt] What is the median pupil-teacher ratio among the towns in this data set?

```
median(Boston$ptratio)
```

```
## [1] 19.05
```

- (g)[3 pts] Which census tract of Boston has lowest median value of owneroccupied homes? What are the values of the other predictors for that census tract, and how do those values compare to the overall ranges for those predictors? Comment on your findings.

```
t(subset(Boston, medv == min(medv)))
```

```
##                 399       406
## crim        38.3518   67.9208
## zn           0.0000    0.0000
## indus       18.1000   18.1000
## chas         0.0000    0.0000
## nox          0.6930    0.6930
## rm           5.4530    5.6830
## age        100.0000  100.0000
## dis          1.4896    1.4254
## rad         24.0000   24.0000
## tax        666.0000  666.0000
## ptratio     20.2000   20.2000
## lstat       30.5900   22.9800
## medv         5.0000    5.0000
```

```
summary(Boston)
```

```
##       crim                zn              indus            chas
## Min.   : 0.00632   Min.   :  0.00   Min.   : 0.46   Min.   :0.00000
## 1st Qu.: 0.08205   1st Qu.:  0.00   1st Qu.: 5.19   1st Qu.:0.00000
## Median : 0.25651   Median :  0.00   Median : 9.69   Median :0.00000
## Mean   : 3.61352   Mean   : 11.36   Mean   :11.14   Mean   :0.06917
## 3rd Qu.: 3.67708   3rd Qu.: 12.50   3rd Qu.:18.10   3rd Qu.:0.00000
## Max.   :88.97620   Max.   :100.00   Max.   :27.74   Max.   :1.00000
##       nox               rm             age              dis
## Min.   :0.3850   Min.   :3.561   Min.   :  2.90   Min.   : 1.130
## 1st Qu.:0.4490   1st Qu.:5.886   1st Qu.: 45.02   1st Qu.: 2.100
## Median :0.5380   Median :6.208   Median : 77.50   Median : 3.207
## Mean   :0.5547   Mean   :6.285   Mean   : 68.57   Mean   : 3.795
## 3rd Qu.:0.6240   3rd Qu.:6.623   3rd Qu.: 94.08   3rd Qu.: 5.188
## Max.   :0.8710   Max.   :8.780   Max.   :100.00   Max.   :12.127
##       rad              tax           ptratio          lstat
## Min.   : 1.000   Min.   :187.0   Min.   :12.60   Min.   : 1.73
## 1st Qu.: 4.000   1st Qu.:279.0   1st Qu.:17.40   1st Qu.: 6.95
## Median : 5.000   Median :330.0   Median :19.05   Median :11.36
## Mean   : 9.549   Mean   :408.2   Mean   :18.46   Mean   :12.65
## 3rd Qu.:24.000   3rd Qu.:666.0   3rd Qu.:20.20   3rd Qu.:16.95
## Max.   :24.000   Max.   :711.0   Max.   :22.00   Max.   :37.97
##       medv
## Min.   : 5.00
## 1st Qu.:17.02
## Median :21.20
## Mean   :22.53
## 3rd Qu.:25.00
## Max.   :50.00
```

- (h)[3 pts] In this data set, how many of the census tracts average more than seven rooms per dwelling? More than eight rooms per dwelling? Comment on the census tracts that average more than eight rooms per dwelling.

```
sum(Boston$rm > 7)
```

```
## [1] 64
```

```
sum(Boston$rm > 8)
```

```
## [1] 13
```

```
summary(subset(Boston, rm > 8))
```

```
##       crim              zn             indus            chas
## Min.   :0.02009   Min.   : 0.00   Min.   : 2.680   Min.   :0.0000
## 1st Qu.:0.33147   1st Qu.: 0.00   1st Qu.: 3.970   1st Qu.:0.0000
## Median :0.52014   Median : 0.00   Median : 6.200   Median :0.0000
## Mean   :0.71879   Mean   :13.62   Mean   : 7.078   Mean   :0.1538
## 3rd Qu.:0.57834   3rd Qu.:20.00   3rd Qu.: 6.200   3rd Qu.:0.0000
## Max.   :3.47428   Max.   :95.00   Max.   :19.580   Max.   :1.0000
##       nox               rm             age              dis
## Min.   :0.4161   Min.   :8.034   Min.   : 8.40   Min.   :1.801
## 1st Qu.:0.5040   1st Qu.:8.247   1st Qu.:70.40   1st Qu.:2.288
## Median :0.5070   Median :8.297   Median :78.30   Median :2.894
## Mean   :0.5392   Mean   :8.349   Mean   :71.54   Mean   :3.430
## 3rd Qu.:0.6050   3rd Qu.:8.398   3rd Qu.:86.50   3rd Qu.:3.652
## Max.   :0.7180   Max.   :8.780   Max.   :93.90   Max.   :8.907
##       rad             tax           ptratio          lstat            medv
## Min.   : 2.000   Min.   :224.0   Min.   :13.00   Min.   :2.47   Min.   :21.9
## 1st Qu.: 5.000   1st Qu.:264.0   1st Qu.:14.70   1st Qu.:3.32   1st Qu.:41.7
## Median : 7.000   Median :307.0   Median :17.40   Median :4.14   Median :48.3
## Mean   : 7.462   Mean   :325.1   Mean   :16.36   Mean   :4.31   Mean   :44.2
## 3rd Qu.: 8.000   3rd Qu.:307.0   3rd Qu.:17.40   3rd Qu.:5.12   3rd Qu.:50.0
## Max.   :24.000   Max.   :666.0   Max.   :20.20   Max.   :7.44   Max.   :50.0
```

```
summary(Boston)
```

```
##       crim              zn             indus            chas
##  Min.   : 0.00632   Min.   :  0.00   Min.   : 0.46   Min.   :0.00000
##  1st Qu.: 0.08205   1st Qu.:  0.00   1st Qu.: 5.19   1st Qu.:0.00000
##  Median : 0.25651   Median :  0.00   Median : 9.69   Median :0.00000
##  Mean   : 3.61352   Mean   : 11.36   Mean   :11.14   Mean   :0.06917
##  3rd Qu.: 3.67708   3rd Qu.: 12.50   3rd Qu.:18.10   3rd Qu.:0.00000
##  Max.   :88.97620   Max.   :100.00   Max.   :27.74   Max.   :1.00000
##       nox              rm             age             dis
##  Min.   :0.3850   Min.   :3.561   Min.   :  2.90   Min.   : 1.130
##  1st Qu.:0.4490   1st Qu.:5.886   1st Qu.: 45.02   1st Qu.: 2.100
##  Median :0.5380   Median :6.208   Median : 77.50   Median : 3.207
##  Mean   :0.5547   Mean   :6.285   Mean   : 68.57   Mean   : 3.795
##  3rd Qu.:0.6240   3rd Qu.:6.623   3rd Qu.: 94.08   3rd Qu.: 5.188
##  Max.   :0.8710   Max.   :8.780   Max.   :100.00   Max.   :12.127
##       rad             tax           ptratio          lstat
##  Min.   : 1.000   Min.   :187.0   Min.   :12.60   Min.   : 1.73
##  1st Qu.: 4.000   1st Qu.:279.0   1st Qu.:17.40   1st Qu.: 6.95
##  Median : 5.000   Median :330.0   Median :19.05   Median :11.36
##  Mean   : 9.549   Mean   :408.2   Mean   :18.46   Mean   :12.65
##  3rd Qu.:24.000   3rd Qu.:666.0   3rd Qu.:20.20   3rd Qu.:16.95
##  Max.   :24.000   Max.   :711.0   Max.   :22.00   Max.   :37.97
##       medv
##  Min.   : 5.00
##  1st Qu.:17.02
##  Median :21.20
##  Mean   :22.53
##  3rd Qu.:25.00
##  Max.   :50.00
```

Question 5. [6 pts]

Suppose we have a data set with five predictors,
$X1 = \text{GPA}, X2 = IQ, X3 = \text{Level (1 for College and 0 for High School)}, X4 = \text{Interaction between GPA and IQ, and } X5 = I$
The response is starting salary after graduation (in thousands of dollars). Suppose we use least squares to fit the model, and
get $\hat{\beta}_0 = 50, \hat{\beta}_1 = 20, \hat{\beta}_2 = 0.07, \hat{\beta}_3 = 35, \hat{\beta}_4 = 0.01, \hat{\beta}_5 = -10$.

- (a)[3 pts] Predict the salary of a college graduate with IQ of 110 and a GPA of 4.0.

```
#Given Coefficients
beta_0 <- 50
beta_1 <- 20
beta_2 <- 0.07
beta_3 <- 35
beta_4 <- 0.01
beta_5 <- -10

#Given Predictor Values
GPA <- 4.0
IQ <- 110
Level <- 1

# Compute Interaction terms
Interaction_GPA_IQ <- GPA *  IQ
Interaction_GPA_Level <- GPA * Level

# Compute Predicted Salary
predicted_salary <- beta_0 + beta_1 * GPA + beta_2 * IQ + beta_3 * Level + beta_4 * Interaction_GPA
_IQ + beta_5 * Interaction_GPA_Level

#Print Predicted Salary
print(predicted_salary)
```

```
## [1] 137.1
```

- (b)[3 pts] True or false: Since the coefficient for the GPA/IQ interaction term is very small, there is very little evidence of
  an interaction effect. Justify your answer. #Solution False. The size of the coefficient for the GPA/IQ interaction term
  alone cannot determine the presence or absence of an interaction effect. While a small coefficient might suggest a
  weaker interaction effect, it doesn't necessarily imply the absence of interaction. 1.In linear regression, the significance
  of coefficients is assessed through hypothesis testing, typically using the associated p-values. To determine the
  significance of the interaction effect between GPA and IQ on starting salary, we need to check the p-value associated
  with the coefficient estimate for the GPA/IQ interaction term ($\hat{\beta}_4$).

2.If the p-value is sufficiently small (typically less than a chosen significance level, e.g., 0.05), then we can reject the null hypothesis that there is no interaction effect. In this case, we would have evidence supporting the presence of an interaction effect between GPA and IQ on the starting salary.

3.Therefore, whether there is evidence of an interaction effect cannot be determined solely by the size of the coefficient for the interaction term; the significance of this coefficient (through its associated p-value) is crucial in making such a determination.

Question 6. [34 pts]

This question involves the use of multiple linear regression on the Auto data set.

```
data(Auto)
data<-Auto
head(data)
```

```
##   mpg cylinders displacement horsepower weight acceleration year origin
## 1  18         8          307        130   3504         12.0   70      1
## 2  15         8          350        165   3693         11.5   70      1
## 3  18         8          318        150   3436         11.0   70      1
## 4  16         8          304        150   3433         12.0   70      1
## 5  17         8          302        140   3449         10.5   70      1
## 6  15         8          429        198   4341         10.0   70      1
##                        name
## 1 chevrolet chevelle malibu
## 2         buick skylark 320
## 3        plymouth satellite
## 4             amc rebel sst
## 5               ford torino
## 6          ford galaxie 500
```

- (a).[3 pts] Produce a scatterplot matrix which includes all numeric variables in the data set. Please give the interpretation of the plot.

```
dataAuto <- read.csv("/Users/adityasrivatsav/Documents/EAS508/HW 1/Auto.csv",na.strings = "?")
dataAuto <- na.omit(dataAuto)
dim(dataAuto)
```

```
## [1] 392   9
```

```
#summary of the data Auto
summary(dataAuto)
```

```
##       mpg          cylinders       displacement     horsepower        weight
##  Min.   : 9.00   Min.   :3.000   Min.   : 68.0   Min.   : 46.0   Min.   :1613
##  1st Qu.:17.00   1st Qu.:4.000   1st Qu.:105.0   1st Qu.: 75.0   1st Qu.:2225
##  Median :22.75   Median :4.000   Median :151.0   Median : 93.5   Median :2804
##  Mean   :23.45   Mean   :5.472   Mean   :194.4   Mean   :104.5   Mean   :2978
##  3rd Qu.:29.00   3rd Qu.:8.000   3rd Qu.:275.8   3rd Qu.:126.0   3rd Qu.:3615
##  Max.   :46.60   Max.   :8.000   Max.   :455.0   Max.   :230.0   Max.   :5140
##   acceleration        year           origin          name
##  Min.   : 8.00   Min.   :70.00   Min.   :1.000   Length:392
##  1st Qu.:13.78   1st Qu.:73.00   1st Qu.:1.000   Class :character
##  Median :15.50   Median :76.00   Median :1.000   Mode  :character
##  Mean   :15.54   Mean   :75.98   Mean   :1.577
##  3rd Qu.:17.02   3rd Qu.:79.00   3rd Qu.:2.000
##  Max.   :24.80   Max.   :82.00   Max.   :3.000
```

```
pairs(dataAuto[, sapply(dataAuto, is.numeric)])
```
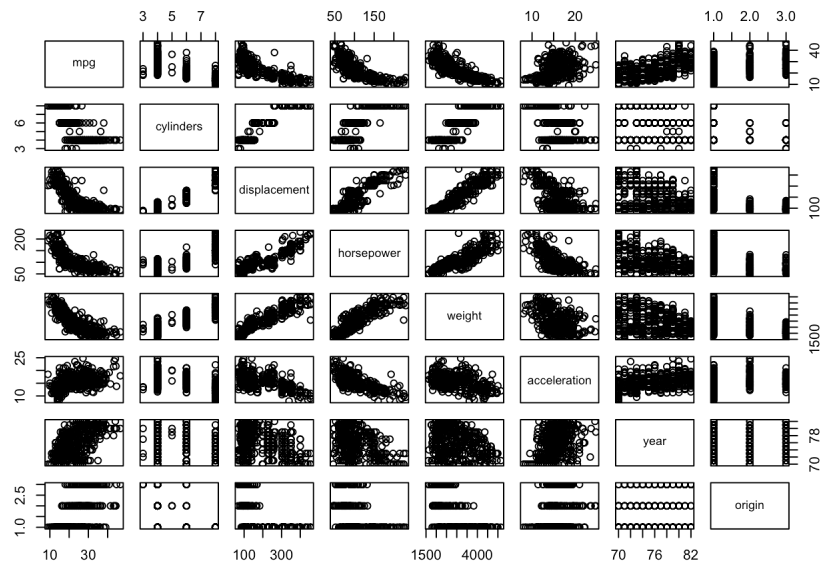
- (b) [3 pts]

Compute the matrix of correlations between the variables. You will need to exclude the name variable, which is qualitative. Explain your discoveries, find the top 1 predictors.

```
# Correlation Matrix
correlation_matrix <- cor(dataAuto[, sapply(dataAuto, is.numeric)])
# Find the top predictor
top_predictor <- colnames(correlation_matrix)[which.max(correlation_matrix["mpg", ])]

# Print correlation matrix
print(correlation_matrix)
```

```
##                      mpg  cylinders displacement horsepower     weight
## mpg            1.0000000 -0.7776175   -0.8051269 -0.7784268 -0.8322442
## cylinders     -0.7776175  1.0000000    0.9508233  0.8429834  0.8975273
## displacement  -0.8051269  0.9508233    1.0000000  0.8972570  0.9329944
## horsepower    -0.7784268  0.8429834    0.8972570  1.0000000  0.8645377
## weight        -0.8322442  0.8975273    0.9329944  0.8645377  1.0000000
## acceleration   0.4233285 -0.5046834   -0.5438005 -0.6891955 -0.4168392
## year           0.5805410 -0.3456474   -0.3698552 -0.4163615 -0.3091199
## origin         0.5652088 -0.5689316   -0.6145351 -0.4551715 -0.5850054
##              acceleration       year     origin
## mpg             0.4233285  0.5805410  0.5652088
## cylinders      -0.5046834 -0.3456474 -0.5689316
## displacement   -0.5438005 -0.3698552 -0.6145351
## horsepower     -0.6891955 -0.4163615 -0.4551715
## weight         -0.4168392 -0.3091199 -0.5850054
## acceleration    1.0000000  0.2903161  0.2127458
## year            0.2903161  1.0000000  0.1815277
## origin          0.2127458  0.1815277  1.0000000
```

```
# Print top predictor
print(paste("Top Predictor:", top_predictor))
```

```
## [1] "Top Predictor: mpg"
```

- (c)[6 pts] perform a simple linear regression use MPG as response and the top predictor. Produce diagnostic plots of the linear regression fit (similar as the ones we showed on class to check the assumptions of linear regression: linearity, normality, constant variance). Interpret your discoveries.

```
dataAuto <- read.csv("/Users/adityasrivatsav/Documents/EAS508/HW 1/Auto.csv",na.strings = "?")
dataAuto <- na.omit(dataAuto)
# Calculate correlations between "MPG" and other variables
correlations <- cor(dataAuto[, -9], dataAuto$mpg)

# Find the top predictor with the highest absolute correlation
top_predictor <- names(which.max(abs(correlations)))

# Fit linear regression model
lm_model <- lm(mpg ~ ., data = dataAuto)

# Generate diagnostic plots
par(mfrow = c(2, 2))
plot(lm_model)
```

```
## Warning: not plotting observations with leverage one:
##    2, 3, 4, 5, 10, 11, 13, 15, 20, 22, 23, 24, 26, 27, 28, 29, 31, 34, 36, 39, 42, 44, 45, 46, 4
7, 48, 49, 51, 52, 54, 55, 56, 57, 58, 59, 61, 66, 67, 68, 70, 71, 73, 75, 76, 77, 79, 80, 81, 82,
83, 84, 85, 89, 90, 93, 94, 95, 96, 98, 102, 104, 105, 108, 110, 111, 113, 114, 115, 116, 121, 124,
128, 136, 137, 140, 147, 150, 151, 153, 156, 157, 160, 163, 164, 165, 169, 175, 178, 181, 183, 185,
187, 195, 198, 199, 200, 201, 203, 206, 207, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 221,
222, 223, 224, 226, 227, 228, 230, 231, 232, 233, 234, 235, 237, 240, 241, 242, 243, 244, 245, 246,
249, 250, 251, 253, 254, 255, 257, 258, 260, 262, 263, 264, 267, 268, 269, 270, 271, 272, 273, 274,
275, 276, 277, 278, 279, 280, 281, 282, 283, 285, 286, 287, 290, 291, 292, 293, 294, 295, 296, 297,
300, 301, 303, 304, 306, 309, 311, 313, 316, 317, 319, 321, 324, 325, 326, 327, 328, 330, 331, 332,
333, 337, 340, 341, 342, 344, 345, 346, 347, 348, 349, 350, 351, 353, 355, 356, 357, 358, 360, 361,
362, 363, 364, 365, 366, 367, 369, 370, 371, 372, 373, 374, 375, 379, 380, 381, 382, 383, 384, 385,
386, 387, 388, 389, 390, 391, 392
```

```
## Warning in sqrt(crit * p * (1 - hh)/hh): NaNs produced
```

```
## Warning in sqrt(crit * p * (1 - hh)/hh): NaNs produced
```
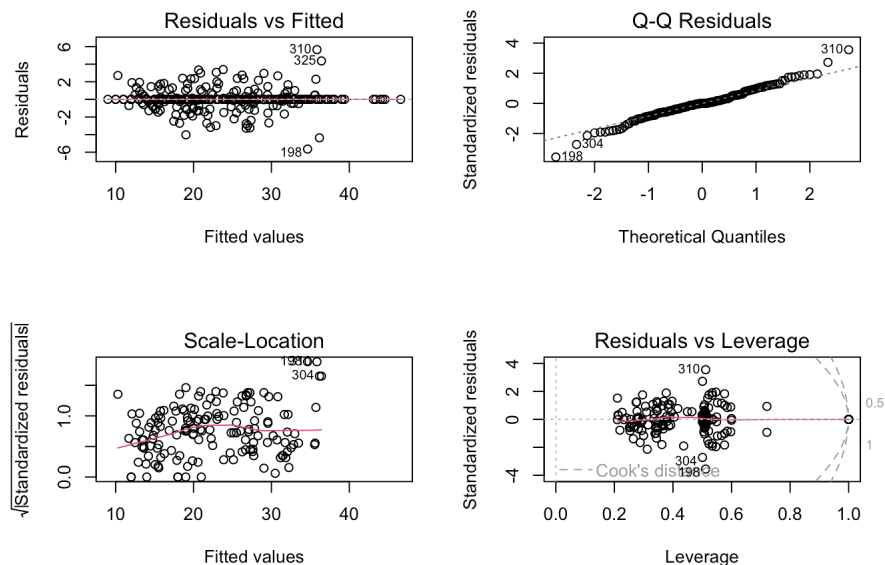

- (d)[4 pts] Use the `lm()` function to perform a multiple linear regression with mpg as the response and all other variables except name as the predictors. Use the summary() function to print the results. Comment on the output. For instance:

    - i. Is there a relationship between the predictors and the response?
    - ii. Which predictors appear to have a statistically significant relationship to the response?
    - iii. What does the coefficient for the year variable suggest?

```
# Perform multiple linear Regression
lm_model <- lm(mpg ~ . - name, data = dataAuto)
# Print summary of the regression results
summary(lm_model)
```

```
##
## Call:
## lm(formula = mpg ~ . - name, data = dataAuto)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -9.5903 -2.1565 -0.1169  1.8690 13.0604
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -17.218435   4.644294  -3.707  0.00024 ***
## cylinders     -0.493376   0.323282  -1.526  0.12780
## displacement   0.019896   0.007515   2.647  0.00844 **
## horsepower    -0.016951   0.013787  -1.230  0.21963
## weight        -0.006474   0.000652  -9.929  < 2e-16 ***
## acceleration   0.080576   0.098845   0.815  0.41548
## year           0.750773   0.050973  14.729  < 2e-16 ***
## origin         1.426141   0.278136   5.127 4.67e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3.328 on 384 degrees of freedom
## Multiple R-squared:  0.8215, Adjusted R-squared:  0.8182
## F-statistic: 252.4 on 7 and 384 DF,  p-value: < 2.2e-16
```

- (e)[5 pts] Produce diagnostic plots of the linear regression fit. Comment on any problems you see with the fit. Do the residual plots suggest any unusually large outliers? Does the leverage plot identify any observations with unusually high leverage?

```
# Produce diagnostic plots
par(mfrow = c(2,2))
plot(lm_model)
```
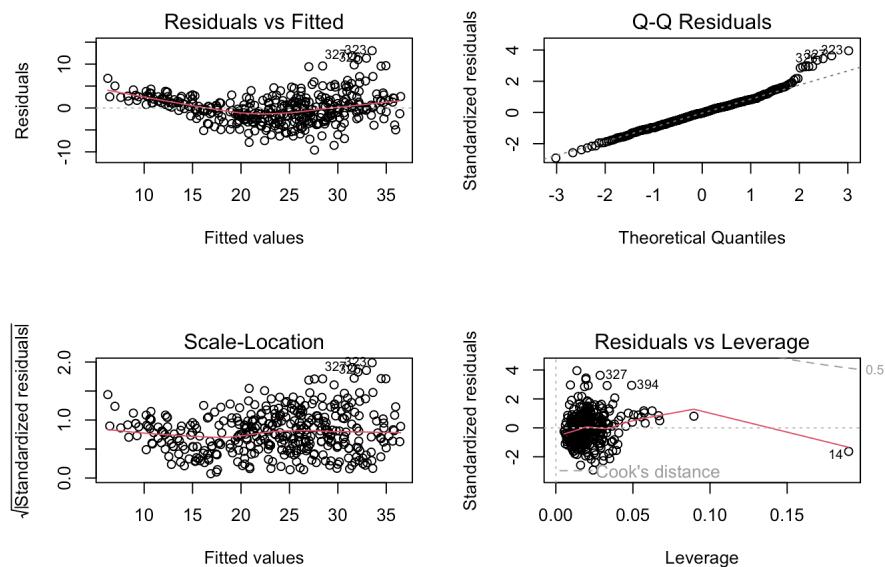

- f. [5 pts] Fit a multiple linear regression model called model_tops using MPG as the response and the top 3 predicting variables with the strongest relationship with MPG. Compare the coefficients of the 3 predictor in model_tops with the model that used all numeric predictors, which ones are larger? Why?

```
# Extract coefficients from the previous model
coefficients_all <- coef(lm_model)

# Find the top 3 predictors with the strongest relationship with MPG
top_3_predictors <- names(sort(abs(coefficients_all[-1]), decreasing = TRUE)[1:3])

# Create a new model using only the top 3 predictors
model_tops <- lm(mpg ~ ., data = dataAuto[, c("mpg", top_3_predictors)])

# Compare coefficients
coefficients_model_tops <- coef(model_tops)
coefficients_all
```

```
##   (Intercept)     cylinders  displacement    horsepower        weight
## -17.218434622  -0.493376319   0.019895644  -0.016951144  -0.006474043
##  acceleration          year        origin
##   0.080575838   0.750772678   1.426140495
```

```
coefficients_model_tops
```

```
## (Intercept)      origin        year   cylinders
## -23.2944368   1.8367029   0.7570703  -2.4995084
```

- (g)[3 pts] Use the * and : symbols to fit linear regression models with interaction effects. Do any interactions appear to be statistically significant?

```
# Fit Linear Regression model with interaction effects
model_interaction <- lm(mpg ~ .* ., data = dataAuto)

# Check for significiant interactions
summary(model_interaction)
```

```
##
## Call:
## lm(formula = mpg ~ . * ., data = dataAuto)
##
## Residuals:
## ALL 392 residuals are 0: no residual degrees of freedom!
##
## Coefficients: (2037 not defined because of singularities)
##                                              Estimate Std. Error
## (Intercept)                                 -3.383e+03       NaN
## cylinders                                   -1.631e+03       NaN
## displacement                                -4.019e+01       NaN
## horsepower                                   6.561e+00       NaN
## weight                                      -8.695e-01       NaN
## acceleration                                -7.249e+00       NaN
## year                                        -2.886e+00       NaN
## origin                                       5.432e+03       NaN
## nameamc ambassador dpl                      -1.169e+03       NaN
## nameamc ambassador sst                       1.955e+03       NaN
## nameamc concord                              5.608e+03       NaN
## nameamc concord d/l                          5.109e+03       NaN
## nameamc concord dl 6                         5.896e+03       NaN
## nameamc gremlin                              7.658e+03       NaN
## nameamc hornet                               8.524e+03       NaN
## nameamc hornet sportabout (sw)               5.247e+03       NaN
## nameamc matador                              1.511e+04       NaN
## nameamc matador (sw)                         2.211e+03       NaN
## nameamc pacer                                5.889e+03       NaN
## nameamc pacer d/l                            5.703e+03       NaN
## nameamc rebel sst                            1.954e+03       NaN
## nameamc spirit dl                            5.554e+03       NaN
## nameaudi 100 ls                             -7.027e+01       NaN
## nameaudi 100ls                               5.207e+03       NaN
## nameaudi 4000                               -2.254e+01       NaN
## nameaudi 5000                                2.854e+02       NaN
## nameaudi 5000s (diesel)                      6.224e+02       NaN
## nameaudi fox                                -4.509e+01       NaN
## namebmw 2002                                -1.445e+02       NaN
## namebmw 320i                                -1.937e+02       NaN
## namebuick century                            4.711e+03       NaN
```

```
## namebuick century 350                              2.370e+02      NaN
## namebuick century limited                          5.674e+03      NaN
## namebuick century luxus (sw)                       1.202e+03      NaN
## namebuick century special                          5.557e+03      NaN
## namebuick electra 225 custom                       -3.706e+03     NaN
## namebuick estate wagon (sw)                        1.930e+04      NaN
## namebuick lesabre custom                           9.829e+02      NaN
## namebuick opel isuzu deluxe                        5.494e+03      NaN
## namebuick regal sport coupe (turbo)                4.169e+03      NaN
## namebuick skyhawk                                  5.408e+03      NaN
## namebuick skylark                                  6.425e+03      NaN
## namebuick skylark 320                              5.018e+02      NaN
## namebuick skylark limited                          5.760e+03      NaN
## namecadillac eldorado                              1.791e+03      NaN
## namecadillac seville                               1.084e+02      NaN
## namecapri ii                                       5.602e+03      NaN
## namechevroelt chevelle malibu                      5.682e+03      NaN
## namechevrolet bel air                              1.305e+03      NaN
## namechevrolet camaro                               5.770e+03      NaN
## namechevrolet caprice classic                      1.101e+04      NaN
## namechevrolet cavalier                             5.338e+03      NaN
## namechevrolet cavalier 2-door                      5.378e+03      NaN
## namechevrolet cavalier wagon                       5.330e+03      NaN
## namechevrolet chevelle concours (sw)               2.445e+03      NaN
## namechevrolet chevelle malibu                      1.546e+04      NaN
## namechevrolet chevelle malibu classic              1.659e+04      NaN
## namechevrolet chevette                             5.532e+03      NaN
## namechevrolet citation                             5.798e+03      NaN
## namechevrolet concours                             5.421e+03      NaN
## namechevrolet impala                               1.354e+04      NaN
## namechevrolet malibu                               1.986e+04      NaN
## namechevrolet malibu classic (sw)                  3.306e+03      NaN
## namechevrolet monte carlo                          -9.065e+01     NaN
## namechevrolet monte carlo landau                   1.316e+04      NaN
## namechevrolet monte carlo s                        1.208e+03      NaN
## namechevrolet monza 2+2                            3.748e+03      NaN
## namechevrolet nova                                 7.334e+03      NaN
## namechevrolet nova custom                          5.634e+03      NaN
## namechevrolet vega                                 6.945e+03      NaN
## namechevrolet vega (sw)                            5.933e+03      NaN
## namechevrolet vega 2300                            5.629e+03      NaN
## namechevrolet woody                                5.615e+03      NaN
## namechevy c10                                      1.195e+03      NaN
## namechevy c20                                      3.243e+02      NaN
## namechevy s-10                                     5.503e+03      NaN
## namechrysler cordoba                               -1.303e+03     NaN
## namechrysler lebaron medallion                     5.766e+03      NaN
## namechrysler lebaron salon                         6.033e+03      NaN
## namechrysler lebaron town @ country (sw)           8.099e+02      NaN
## namechrysler new yorker brougham                   -3.026e+03     NaN
## namechrysler newport royal                         -1.285e+03     NaN
## namedatsun 1200                                    -5.346e+03     NaN
## namedatsun 200-sx                                  -5.467e+03     NaN
## namedatsun 200sx                                   -5.499e+03     NaN
## namedatsun 210                                     -5.355e+03     NaN
## namedatsun 210 mpg                                 -5.406e+03     NaN
## namedatsun 280-zx                                  -5.360e+03     NaN
## namedatsun 310                                     -5.425e+03     NaN
## namedatsun 310 gx                                  -5.415e+03     NaN
## namedatsun 510                                     -5.453e+03     NaN
## namedatsun 510 (sw)                                -5.448e+03     NaN
## namedatsun 510 hatchback                           -5.443e+03     NaN
## namedatsun 610                                     -5.465e+03     NaN
## namedatsun 710                                     -5.252e+03     NaN
## namedatsun 810                                     -4.920e+03     NaN
## namedatsun 810 maxima                              -5.012e+03     NaN
## namedatsun b-210                                   -5.410e+03     NaN
## namedatsun b210                                    -5.404e+03     NaN
## namedatsun b210 gx                                 -5.409e+03     NaN
## namedatsun f-10 hatchback                          -5.404e+03     NaN
## namedatsun pl510                                   -5.417e+03     NaN
## namedodge aries se                                 5.662e+03      NaN
## namedodge aries wagon (sw)                         5.771e+03      NaN
## namedodge aspen                                    7.946e+03      NaN
## namedodge aspen 6                                  5.453e+03      NaN
## namedodge aspen se                                 5.744e+03      NaN
```

```
## namedodge challenger se                    -4.584e+02        NaN
## namedodge charger 2.2                        5.667e+03        NaN
## namedodge colt                               5.585e+03        NaN
## namedodge colt (sw)                          5.376e+03        NaN
## namedodge colt hardtop                       5.376e+03        NaN
## namedodge colt hatchback custom              5.428e+03        NaN
## namedodge colt m/m                           5.366e+03        NaN
## namedodge coronet brougham                   1.661e+03        NaN
## namedodge coronet custom                     1.647e+03        NaN
## namedodge coronet custom (sw)                1.677e+03        NaN
## namedodge d100                               1.638e+03        NaN
## namedodge d200                              -2.089e+02        NaN
## namedodge dart custom                        1.638e+03        NaN
## namedodge diplomat                           1.915e+03        NaN
## namedodge magnum xe                          1.942e+03        NaN
## namedodge monaco (sw)                       -3.828e+02        NaN
## namedodge monaco brougham                    1.801e+03        NaN
## namedodge omni                               5.478e+03        NaN
## namedodge rampage                            5.664e+03        NaN
## namedodge st. regis                          2.058e+03        NaN
## namefiat 124 sport coupe                    -9.486e+01        NaN
## namefiat 124 tc                             9.500e+01        NaN
## namefiat 124b                               -3.710e+01        NaN
## namefiat 128                                 2.700e+01        NaN
## namefiat 131                                -5.233e+01        NaN
## namefiat strada custom                      -1.021e+01        NaN
## namefiat x1.9                               -4.174e+01        NaN
## nameford country                            -1.510e+02        NaN
## nameford country squire (sw)                 1.277e+04        NaN
## nameford escort 2h                           5.519e+03        NaN
## nameford escort 4w                           5.530e+03        NaN
## nameford f108                                2.502e+03        NaN
## nameford f250                               -1.385e+03        NaN
## nameford fairmont                            5.669e+03        NaN
## nameford fairmont (auto)                     6.013e+03        NaN
## nameford fairmont (man)                      5.666e+03        NaN
## nameford fairmont 4                          5.668e+03        NaN
## nameford fairmont futura                     5.581e+03        NaN
## nameford fiesta                              5.546e+03        NaN
## nameford futura                              2.282e+03        NaN
## nameford galaxie 500                         1.442e+04        NaN
## nameford gran torino                         1.182e+04        NaN
## nameford gran torino (sw)                    2.257e+03        NaN
## nameford granada                             5.760e+03        NaN
## nameford granada ghia                        6.366e+03        NaN
## nameford granada gl                          5.962e+03        NaN
## nameford granada l                           5.344e+03        NaN
## nameford ltd                                 7.389e+03        NaN
## nameford ltd landau                          2.515e+03        NaN
## nameford maverick                            8.853e+03        NaN
## nameford mustang                             5.868e+03        NaN
## nameford mustang gl                          5.688e+03        NaN
## nameford mustang ii                          2.479e+03        NaN
## nameford mustang ii 2+2                      5.654e+03        NaN
## nameford pinto                               5.331e+03        NaN
## nameford pinto (sw)                          5.510e+03        NaN
## nameford pinto runabout                      5.514e+03        NaN
## nameford ranger                              5.562e+03        NaN
## nameford thunderbird                         1.115e+03        NaN
## nameford torino                              2.243e+03        NaN
## nameford torino 500                          5.944e+03        NaN
## namehi 1200d                                 4.598e+02        NaN
## namehonda accord                            -5.172e+03        NaN
## namehonda accord cvcc                       -5.400e+03        NaN
## namehonda accord lx                         -5.416e+03        NaN
## namehonda civic                             -5.238e+03        NaN
## namehonda civic (auto)                      -5.420e+03        NaN
## namehonda civic 1300                        -5.416e+03        NaN
## namehonda civic 1500 gl                     -5.401e+03        NaN
## namehonda civic cvcc                        -5.495e+03        NaN
## namehonda prelude                           -5.418e+03        NaN
## namemaxda glc deluxe                        -5.428e+03        NaN
## namemaxda rx3                               -6.408e+03        NaN
## namemazda 626                               -4.617e+03        NaN
## namemazda glc                               -5.417e+03        NaN
## namemazda glc 4                             -5.416e+03        NaN
```

```
## namemazda glc custom                               -5.411e+03        NaN
## namemazda glc custom l                             -5.409e+03        NaN
## namemazda glc deluxe                               -5.438e+03        NaN
## namemazda rx-4                                     -6.486e+03        NaN
## namemazda rx-7 gs                                  -6.476e+03        NaN
## namemazda rx2 coupe                                -6.447e+03        NaN
## namemercedes benz 300d                              7.778e+02        NaN
## namemercedes-benz 240d                              6.462e+02        NaN
## namemercedes-benz 280s                             -1.625e+02        NaN
## namemercury capri 2000                              5.518e+03        NaN
## namemercury capri v6                                6.032e+03        NaN
## namemercury cougar brougham                         2.526e+03        NaN
## namemercury grand marquis                           1.365e+03        NaN
## namemercury lynx l                                  5.479e+03        NaN
## namemercury marquis                                -2.533e+03        NaN
## namemercury marquis brougham                       -1.960e+03        NaN
## namemercury monarch                                 6.469e+03        NaN
## namemercury monarch ghia                            2.271e+03        NaN
## namemercury zephyr                                  6.027e+03        NaN
## namemercury zephyr 6                                6.031e+03        NaN
## namenissan stanza xe                               -5.414e+03        NaN
## nameoldsmobile cutlass ciera (diesel)              5.866e+03        NaN
## nameoldsmobile cutlass ls                          2.355e+03        NaN
## nameoldsmobile cutlass salon brougham              6.449e+03        NaN
## nameoldsmobile cutlass supreme                     3.762e+03        NaN
## nameoldsmobile delta 88 royale                     7.959e+02        NaN
## nameoldsmobile omega                               7.088e+01        NaN
## nameoldsmobile omega brougham                      5.735e+03        NaN
## nameoldsmobile starfire sx                         5.876e+03        NaN
## nameoldsmobile vista cruiser                       1.099e+02        NaN
## nameopel 1900                                      5.222e+02        NaN
## nameopel manta                                     -7.449e+02        NaN
## namepeugeot 304                                    -4.408e+01        NaN
## namepeugeot 504                                     1.484e+03        NaN
## namepeugeot 504 (sw)                                2.766e+01        NaN
## namepeugeot 505s turbo diesel                       3.276e+02        NaN
## namepeugeot 604sl                                  -1.609e+02        NaN
## nameplymouth 'cuda 340                              8.976e+02        NaN
## nameplymouth arrow gs                               5.384e+03        NaN
## nameplymouth champ                                  5.455e+03        NaN
## nameplymouth cricket                                5.450e+03        NaN
## nameplymouth custom suburb                          3.020e+02        NaN
## nameplymouth duster                                 5.857e+03        NaN
## nameplymouth fury                                   5.914e+03        NaN
## nameplymouth fury gran sedan                        1.666e+03        NaN
## nameplymouth fury iii                               1.425e+04        NaN
## nameplymouth grand fury                             1.675e+03        NaN
## nameplymouth horizon                                5.526e+03        NaN
## nameplymouth horizon 4                              5.599e+03        NaN
## nameplymouth horizon miser                          5.605e+03        NaN
## nameplymouth horizon tc3                            5.540e+03        NaN
## nameplymouth reliant                                5.662e+03        NaN
## nameplymouth sapporo                                5.539e+03        NaN
## nameplymouth satellite                              1.634e+03        NaN
## nameplymouth satellite custom                       5.601e+03        NaN
## nameplymouth satellite custom (sw)                  1.659e+03        NaN
## nameplymouth satellite sebring                      5.616e+03        NaN
## nameplymouth valiant                                8.013e+03        NaN
## nameplymouth valiant custom                         5.793e+03        NaN
## nameplymouth volare                                 5.699e+03        NaN
## nameplymouth volare custom                          5.734e+03        NaN
## nameplymouth volare premier v8                      1.648e+03        NaN
## namepontiac astro                                   5.846e+03        NaN
## namepontiac catalina                                1.061e+04        NaN
## namepontiac catalina brougham                      -6.652e+02        NaN
## namepontiac firebird                                5.630e+03        NaN
## namepontiac grand prix                             -2.772e+03        NaN
## namepontiac grand prix lj                          -9.457e+02        NaN
## namepontiac j2000 se hatchback                      5.382e+03        NaN
## namepontiac lemans v6                               5.312e+03        NaN
## namepontiac phoenix                                 5.756e+03        NaN
## namepontiac phoenix lj                              5.592e+03        NaN
## namepontiac safari (sw)                            -3.725e+02        NaN
## namepontiac sunbird coupe                           5.806e+03        NaN
## namepontiac ventura sj                              5.456e+03        NaN
## namerenault 12 (sw)                                 3.431e+01        NaN
```

```
## namerenault 12tl                              -3.225e+01        NaN
## namerenault 5 gtl                              2.011e+01        NaN
## namesaab 99e                                   -1.220e+02        NaN
## namesaab 99gle                                 -3.066e+02        NaN
## namesaab 99le                                  8.744e+02        NaN
## namesubaru                                     -4.987e+03        NaN
## namesubaru dl                                  -5.410e+03        NaN
## nametoyota carina                              -5.450e+03        NaN
## nametoyota celica gt                           -5.426e+03        NaN
## nametoyota celica gt liftback                  -5.449e+03        NaN
## nametoyota corolla                             -5.263e+03        NaN
## nametoyota corolla 1200                        -5.385e+03        NaN
## nametoyota corolla 1600 (sw)                   -5.416e+03        NaN
## nametoyota corolla liftback                    -5.426e+03        NaN
## nametoyota corolla tercel                      -5.408e+03        NaN
## nametoyota corona                              -5.441e+03        NaN
## nametoyota corona hardtop                      -5.451e+03        NaN
## nametoyota corona liftback                     -5.412e+03        NaN
## nametoyota corona mark ii                      -5.456e+03        NaN
## nametoyota cressida                            -5.316e+03        NaN
## nametoyota mark ii                             -5.125e+03        NaN
## nametoyota starlet                             -5.416e+03        NaN
## nametoyota tercel                              -5.424e+03        NaN
## nametoyouta corona mark ii (sw)                -5.467e+03        NaN
## nametriumph tr7 coupe                          2.168e+01        NaN
## namevokswagen rabbit                           3.010e+01        NaN
## namevolkswagen 1131 deluxe sedan               1.782e+02        NaN
## namevolkswagen 411 (sw)                        1.478e+02        NaN
## namevolkswagen dasher                          -1.154e+02        NaN
## namevolkswagen jetta                           3.406e+01        NaN
## namevolkswagen model 111                       9.888e+01        NaN
## namevolkswagen rabbit                          -4.651e+02        NaN
## namevolkswagen rabbit custom                   1.179e+01        NaN
## namevolkswagen rabbit custom diesel            1.428e+02        NaN
## namevolkswagen rabbit l                        6.214e+01        NaN
## namevolkswagen scirocco                        -8.264e+00        NaN
## namevolkswagen super beetle                    1.908e+02        NaN
## namevolkswagen type 3                          1.925e+02        NaN
## namevolvo 144ea                                -2.776e+02        NaN
## namevolvo 145e (sw)                            -2.816e+02        NaN
## namevolvo 244dl                                -1.247e+02        NaN
## namevolvo 245                                  -1.239e+02        NaN
## namevolvo 264gl                                5.503e+01        NaN
## namevolvo diesel                               6.999e+02        NaN
## namevw dasher (diesel)                         1.685e+02        NaN
## namevw pickup                                  1.957e+02        NaN
## namevw rabbit                                  3.377e+00        NaN
## namevw rabbit c (diesel)                       1.411e+02        NaN
## namevw rabbit custom                                  NA         NA
## cylinders:displacement                         8.533e+00        NaN
## cylinders:horsepower                           -3.296e+00        NaN
## cylinders:weight                               1.907e-01        NaN
## cylinders:acceleration                         -2.330e+00        NaN
## cylinders:year                                 -5.977e-01        NaN
## cylinders:origin                                      NA         NA
## cylinders:nameamc ambassador dpl                      NA         NA
## cylinders:nameamc ambassador sst                      NA         NA
## cylinders:nameamc concord                      4.513e+01        NaN
## cylinders:nameamc concord d/l                         NA         NA
## cylinders:nameamc concord dl 6                        NA         NA
## cylinders:nameamc gremlin                             NA         NA
## cylinders:nameamc hornet                              NA         NA
## cylinders:nameamc hornet sportabout (sw)              NA         NA
## cylinders:nameamc matador                      -1.210e+03        NaN
## cylinders:nameamc matador (sw)                        NA         NA
## cylinders:nameamc pacer                               NA         NA
## cylinders:nameamc pacer d/l                           NA         NA
## cylinders:nameamc rebel sst                           NA         NA
## cylinders:nameamc spirit dl                           NA         NA
## cylinders:nameaudi 100 ls                             NA         NA
## cylinders:nameaudi 100ls                              NA         NA
## cylinders:nameaudi 4000                               NA         NA
## cylinders:nameaudi 5000                               NA         NA
## cylinders:nameaudi 5000s (diesel)                     NA         NA
## cylinders:nameaudi fox                                NA         NA
## cylinders:namebmw 2002                                NA         NA
```

```
## cylinders:namebmw 320i                                       NA        NA
## cylinders:namebuick century                                  NA        NA
## cylinders:namebuick century 350                              NA        NA
## cylinders:namebuick century limited                          NA        NA
## cylinders:namebuick century luxus (sw)                       NA        NA
## cylinders:namebuick century special                          NA        NA
## cylinders:namebuick electra 225 custom                       NA        NA
## cylinders:namebuick estate wagon (sw)                        NA        NA
## cylinders:namebuick lesabre custom                           NA        NA
## cylinders:namebuick opel isuzu deluxe                        NA        NA
## cylinders:namebuick regal sport coupe (turbo)                NA        NA
## cylinders:namebuick skyhawk                                  NA        NA
## cylinders:namebuick skylark                          -1.423e+02       NaN
## cylinders:namebuick skylark 320                              NA        NA
## cylinders:namebuick skylark limited                          NA        NA
## cylinders:namecadillac eldorado                              NA        NA
## cylinders:namecadillac seville                               NA        NA
## cylinders:namecapri ii                                       NA        NA
## cylinders:namechevroelt chevelle malibu                      NA        NA
## cylinders:namechevrolet bel air                              NA        NA
## cylinders:namechevrolet camaro                               NA        NA
## cylinders:namechevrolet caprice classic                      NA        NA
## cylinders:namechevrolet cavalier                             NA        NA
## cylinders:namechevrolet cavalier 2-door                      NA        NA
## cylinders:namechevrolet cavalier wagon                       NA        NA
## cylinders:namechevrolet chevelle concours (sw)               NA        NA
## cylinders:namechevrolet chevelle malibu             -1.635e+03       NaN
## cylinders:namechevrolet chevelle malibu classic     -1.801e+03       NaN
## cylinders:namechevrolet chevette                             NA        NA
## cylinders:namechevrolet citation                     3.483e+01       NaN
## cylinders:namechevrolet concours                             NA        NA
## cylinders:namechevrolet impala                               NA        NA
## cylinders:namechevrolet malibu                      -2.335e+03       NaN
## cylinders:namechevrolet malibu classic (sw)                  NA        NA
## cylinders:namechevrolet monte carlo                          NA        NA
## cylinders:namechevrolet monte carlo landau                   NA        NA
## cylinders:namechevrolet monte carlo s                        NA        NA
## cylinders:namechevrolet monza 2+2                            NA        NA
## cylinders:namechevrolet nova                                 NA        NA
## cylinders:namechevrolet nova custom                          NA        NA
## cylinders:namechevrolet vega                                 NA        NA
## cylinders:namechevrolet vega (sw)                            NA        NA
## cylinders:namechevrolet vega 2300                            NA        NA
## cylinders:namechevrolet woody                                NA        NA
## cylinders:namechevy c10                                      NA        NA
## cylinders:namechevy c20                                      NA        NA
## cylinders:namechevy s-10                                     NA        NA
## cylinders:namechrysler cordoba                               NA        NA
## cylinders:namechrysler lebaron medallion                     NA        NA
## cylinders:namechrysler lebaron salon                         NA        NA
## cylinders:namechrysler lebaron town @ country (sw)           NA        NA
## cylinders:namechrysler new yorker brougham                   NA        NA
## cylinders:namechrysler newport royal                         NA        NA
## cylinders:namedatsun 1200                                    NA        NA
## cylinders:namedatsun 200-sx                                  NA        NA
## cylinders:namedatsun 200sx                                   NA        NA
## cylinders:namedatsun 210                                     NA        NA
## cylinders:namedatsun 210 mpg                                 NA        NA
## cylinders:namedatsun 280-zx                                  NA        NA
## cylinders:namedatsun 310                                     NA        NA
## cylinders:namedatsun 310 gx                                  NA        NA
## cylinders:namedatsun 510                                     NA        NA
## cylinders:namedatsun 510 (sw)                                NA        NA
## cylinders:namedatsun 510 hatchback                           NA        NA
## cylinders:namedatsun 610                                     NA        NA
## cylinders:namedatsun 710                                     NA        NA
## cylinders:namedatsun 810                                     NA        NA
## cylinders:namedatsun 810 maxima                              NA        NA
## cylinders:namedatsun b-210                                   NA        NA
## cylinders:namedatsun b210                                    NA        NA
## cylinders:namedatsun b210 gx                                 NA        NA
## cylinders:namedatsun f-10 hatchback                          NA        NA
## cylinders:namedatsun pl510                                   NA        NA
## cylinders:namedodge aries se                                 NA        NA
## cylinders:namedodge aries wagon (sw)                         NA        NA
## cylinders:namedodge aspen                                    NA        NA
```

```
## cylinders:namedodge aspen 6                    NA    NA
## cylinders:namedodge aspen se                   NA    NA
## cylinders:namedodge challenger se              NA    NA
## cylinders:namedodge charger 2.2                NA    NA
## cylinders:namedodge colt                       NA    NA
## cylinders:namedodge colt (sw)                  NA    NA
## cylinders:namedodge colt hardtop               NA    NA
## cylinders:namedodge colt hatchback custom      NA    NA
## cylinders:namedodge colt m/m                   NA    NA
## cylinders:namedodge coronet brougham           NA    NA
## cylinders:namedodge coronet custom             NA    NA
## cylinders:namedodge coronet custom (sw)        NA    NA
## cylinders:namedodge d100                       NA    NA
## cylinders:namedodge d200                       NA    NA
## cylinders:namedodge dart custom                NA    NA
## cylinders:namedodge diplomat                   NA    NA
## cylinders:namedodge magnum xe                  NA    NA
## cylinders:namedodge monaco (sw)                NA    NA
## cylinders:namedodge monaco brougham            NA    NA
## cylinders:namedodge omni                       NA    NA
## cylinders:namedodge rampage                    NA    NA
## cylinders:namedodge st. regis                  NA    NA
## cylinders:namefiat 124 sport coupe             NA    NA
## cylinders:namefiat 124 tc                      NA    NA
## cylinders:namefiat 124b                        NA    NA
## cylinders:namefiat 128                         NA    NA
## cylinders:namefiat 131                         NA    NA
## cylinders:namefiat strada custom               NA    NA
## cylinders:namefiat x1.9                        NA    NA
## cylinders:nameford country                     NA    NA
## cylinders:nameford country squire (sw)         NA    NA
## cylinders:nameford escort 2h                   NA    NA
## cylinders:nameford escort 4w                   NA    NA
## cylinders:nameford f108                        NA    NA
## cylinders:nameford f250                        NA    NA
## cylinders:nameford fairmont                    NA    NA
## cylinders:nameford fairmont (auto)             NA    NA
## cylinders:nameford fairmont (man)              NA    NA
## cylinders:nameford fairmont 4                  NA    NA
## cylinders:nameford fairmont futura             NA    NA
## cylinders:nameford fiesta                      NA    NA
## cylinders:nameford futura                      NA    NA
## cylinders:nameford galaxie 500                 NA    NA
## cylinders:nameford gran torino                 NA    NA
## cylinders:nameford gran torino (sw)            NA    NA
## cylinders:nameford granada                     NA    NA
## cylinders:nameford granada ghia                NA    NA
## cylinders:nameford granada gl                  NA    NA
## cylinders:nameford granada l                   NA    NA
## cylinders:nameford ltd                         NA    NA
## cylinders:nameford ltd landau                  NA    NA
## cylinders:nameford maverick                    NA    NA
## cylinders:nameford mustang                     NA    NA
## cylinders:nameford mustang gl                  NA    NA
## cylinders:nameford mustang ii                  NA    NA
## cylinders:nameford mustang ii 2+2              NA    NA
## cylinders:nameford pinto                       NA    NA
## cylinders:nameford pinto (sw)                  NA    NA
## cylinders:nameford pinto runabout              NA    NA
## cylinders:nameford ranger                      NA    NA
## cylinders:nameford thunderbird                 NA    NA
## cylinders:nameford torino                      NA    NA
## cylinders:nameford torino 500                  NA    NA
## cylinders:namehi 1200d                         NA    NA
## cylinders:namehonda accord                     NA    NA
## cylinders:namehonda accord cvcc                NA    NA
## cylinders:namehonda accord lx                  NA    NA
## cylinders:namehonda civic                      NA    NA
## cylinders:namehonda civic (auto)               NA    NA
## cylinders:namehonda civic 1300                 NA    NA
## cylinders:namehonda civic 1500 gl              NA    NA
## cylinders:namehonda civic cvcc                 NA    NA
## cylinders:namehonda prelude                    NA    NA
## cylinders:namemaxda glc deluxe                 NA    NA
## cylinders:namemaxda rx3                        NA    NA
## cylinders:namemazda 626                        NA    NA
```

```
## cylinders:namemazda glc                             NA        NA
## cylinders:namemazda glc 4                           NA        NA
## cylinders:namemazda glc custom                      NA        NA
## cylinders:namemazda glc custom l                    NA        NA
## cylinders:namemazda glc deluxe                      NA        NA
## cylinders:namemazda rx-4                            NA        NA
## cylinders:namemazda rx-7 gs                         NA        NA
## cylinders:namemazda rx2 coupe                       NA        NA
## cylinders:namemercedes benz 300d                    NA        NA
## cylinders:namemercedes-benz 240d                    NA        NA
## cylinders:namemercedes-benz 280s                    NA        NA
## cylinders:namemercury capri 2000                    NA        NA
## cylinders:namemercury capri v6                      NA        NA
## cylinders:namemercury cougar brougham               NA        NA
## cylinders:namemercury grand marquis                 NA        NA
## cylinders:namemercury lynx l                        NA        NA
## cylinders:namemercury marquis                       NA        NA
## cylinders:namemercury marquis brougham              NA        NA
## cylinders:namemercury monarch                       NA        NA
## cylinders:namemercury monarch ghia                  NA        NA
## cylinders:namemercury zephyr                        NA        NA
## cylinders:namemercury zephyr 6                      NA        NA
## cylinders:namenissan stanza xe                      NA        NA
## cylinders:nameoldsmobile cutlass ciera (diesel)     NA        NA
## cylinders:nameoldsmobile cutlass ls                 NA        NA
## cylinders:nameoldsmobile cutlass salon brougham     NA        NA
## cylinders:nameoldsmobile cutlass supreme            NA        NA
## cylinders:nameoldsmobile delta 88 royale            NA        NA
## cylinders:nameoldsmobile omega                      NA        NA
## cylinders:nameoldsmobile omega brougham             NA        NA
## cylinders:nameoldsmobile starfire sx                NA        NA
## cylinders:nameoldsmobile vista cruiser              NA        NA
## cylinders:nameopel 1900                             NA        NA
## cylinders:nameopel manta                            NA        NA
## cylinders:namepeugeot 304                           NA        NA
## cylinders:namepeugeot 504                           NA        NA
## cylinders:namepeugeot 504 (sw)                      NA        NA
## cylinders:namepeugeot 505s turbo diesel             NA        NA
## cylinders:namepeugeot 604sl                         NA        NA
## cylinders:nameplymouth 'cuda 340                    NA        NA
## cylinders:nameplymouth arrow gs                     NA        NA
## cylinders:nameplymouth champ                        NA        NA
## cylinders:nameplymouth cricket                      NA        NA
## cylinders:nameplymouth custom suburb                NA        NA
## cylinders:nameplymouth duster                       NA        NA
## cylinders:nameplymouth fury                         NA        NA
## cylinders:nameplymouth fury gran sedan              NA        NA
## cylinders:nameplymouth fury iii                     NA        NA
## cylinders:nameplymouth grand fury                   NA        NA
## cylinders:nameplymouth horizon                      NA        NA
## cylinders:nameplymouth horizon 4                    NA        NA
## cylinders:nameplymouth horizon miser                NA        NA
## cylinders:nameplymouth horizon tc3                  NA        NA
## cylinders:nameplymouth reliant                      NA        NA
## cylinders:nameplymouth sapporo                      NA        NA
## cylinders:nameplymouth satellite                    NA        NA
## cylinders:nameplymouth satellite custom             NA        NA
## cylinders:nameplymouth satellite custom (sw)        NA        NA
## cylinders:nameplymouth satellite sebring            NA        NA
## cylinders:nameplymouth valiant                      NA        NA
## cylinders:nameplymouth valiant custom               NA        NA
## cylinders:nameplymouth volare                       NA        NA
## cylinders:nameplymouth volare custom                NA        NA
## cylinders:nameplymouth volare premier v8            NA        NA
## cylinders:namepontiac astro                         NA        NA
## cylinders:namepontiac catalina                      NA        NA
## cylinders:namepontiac catalina brougham             NA        NA
## cylinders:namepontiac firebird                      NA        NA
## cylinders:namepontiac grand prix                    NA        NA
## cylinders:namepontiac grand prix lj                 NA        NA
## cylinders:namepontiac j2000 se hatchback            NA        NA
## cylinders:namepontiac lemans v6                     NA        NA
## cylinders:namepontiac phoenix                       NA        NA
## cylinders:namepontiac phoenix lj                    NA        NA
## cylinders:namepontiac safari (sw)                   NA        NA
## cylinders:namepontiac sunbird coupe                 NA        NA
```

```
## cylinders:namepontiac ventura sj                               NA          NA
## cylinders:namerenault 12 (sw)                                  NA          NA
## cylinders:namerenault 12tl                                     NA          NA
## cylinders:namerenault 5 gtl                                    NA          NA
## cylinders:namesaab 99e                                         NA          NA
## cylinders:namesaab 99gle                                       NA          NA
## cylinders:namesaab 99le                                        NA          NA
## cylinders:namesubaru                                           NA          NA
## cylinders:namesubaru dl                                        NA          NA
## cylinders:nametoyota carina                                    NA          NA
## cylinders:nametoyota celica gt                                 NA          NA
## cylinders:nametoyota celica gt liftback                        NA          NA
## cylinders:nametoyota corolla                                   NA          NA
## cylinders:nametoyota corolla 1200                              NA          NA
## cylinders:nametoyota corolla 1600 (sw)                         NA          NA
## cylinders:nametoyota corolla liftback                          NA          NA
## cylinders:nametoyota corolla tercel                            NA          NA
## cylinders:nametoyota corona                                    NA          NA
## cylinders:nametoyota corona hardtop                            NA          NA
## cylinders:nametoyota corona liftback                           NA          NA
## cylinders:nametoyota corona mark ii                            NA          NA
## cylinders:nametoyota cressida                                  NA          NA
## cylinders:nametoyota mark ii                                   NA          NA
## cylinders:nametoyota starlet                                   NA          NA
## cylinders:nametoyota tercel                                    NA          NA
## cylinders:nametoyouta corona mark ii (sw)                      NA          NA
## cylinders:nametriumph tr7 coupe                                NA          NA
## cylinders:namevokswagen rabbit                                 NA          NA
## cylinders:namevolkswagen 1131 deluxe sedan                     NA          NA
## cylinders:namevolkswagen 411 (sw)                              NA          NA
## cylinders:namevolkswagen dasher                                NA          NA
## cylinders:namevolkswagen jetta                                 NA          NA
## cylinders:namevolkswagen model 111                             NA          NA
## cylinders:namevolkswagen rabbit                                NA          NA
## cylinders:namevolkswagen rabbit custom                         NA          NA
## cylinders:namevolkswagen rabbit custom diesel                  NA          NA
## cylinders:namevolkswagen rabbit l                              NA          NA
## cylinders:namevolkswagen scirocco                              NA          NA
## cylinders:namevolkswagen super beetle                          NA          NA
## cylinders:namevolkswagen type 3                                NA          NA
## cylinders:namevolvo 144ea                                      NA          NA
## cylinders:namevolvo 145e (sw)                                  NA          NA
## cylinders:namevolvo 244dl                                      NA          NA
## cylinders:namevolvo 245                                        NA          NA
## cylinders:namevolvo 264gl                                      NA          NA
## cylinders:namevolvo diesel                                     NA          NA
## cylinders:namevw dasher (diesel)                               NA          NA
## cylinders:namevw pickup                                        NA          NA
## cylinders:namevw rabbit                                        NA          NA
## cylinders:namevw rabbit c (diesel)                             NA          NA
## cylinders:namevw rabbit custom                                 NA          NA
## displacement:horsepower                                  9.741e-02         NaN
## displacement:weight                                     -6.496e-03         NaN
## displacement:acceleration                                4.453e-03         NaN
## displacement:year                                       -1.747e-02         NaN
## displacement:origin                                      4.278e+00         NaN
## displacement:nameamc ambassador dpl                             NA          NA
## displacement:nameamc ambassador sst                             NA          NA
## displacement:nameamc concord                                    NA          NA
## displacement:nameamc concord d/l                                NA          NA
## displacement:nameamc concord dl 6                               NA          NA
## displacement:nameamc gremlin                            -1.171e+01         NaN
## displacement:nameamc hornet                             -5.284e+00         NaN
## displacement:nameamc hornet sportabout (sw)                     NA          NA
## displacement:nameamc matador                            -3.359e+00         NaN
## displacement:nameamc matador (sw)                               NA          NA
## displacement:nameamc pacer                                      NA          NA
## displacement:nameamc pacer d/l                                  NA          NA
## displacement:nameamc rebel sst                                  NA          NA
## displacement:nameamc spirit dl                                  NA          NA
## displacement:nameaudi 100 ls                                    NA          NA
## displacement:nameaudi 100ls                             -4.622e+01         NaN
## displacement:nameaudi 4000                                      NA          NA
## displacement:nameaudi 5000                                      NA          NA
## displacement:nameaudi 5000s (diesel)                            NA          NA
## displacement:nameaudi fox                                       NA          NA
```

```
## displacement:namebmw 2002                                      NA        NA
## displacement:namebmw 320i                                      NA        NA
## displacement:namebuick century                                 NA        NA
## displacement:namebuick century 350                             NA        NA
## displacement:namebuick century limited                         NA        NA
## displacement:namebuick century luxus (sw)                      NA        NA
## displacement:namebuick century special                         NA        NA
## displacement:namebuick electra 225 custom                      NA        NA
## displacement:namebuick estate wagon (sw)               -5.250e+01        NaN
## displacement:namebuick lesabre custom                          NA        NA
## displacement:namebuick opel isuzu deluxe                       NA        NA
## displacement:namebuick regal sport coupe (turbo)               NA        NA
## displacement:namebuick skyhawk                                 NA        NA
## displacement:namebuick skylark                                 NA        NA
## displacement:namebuick skylark 320                             NA        NA
## displacement:namebuick skylark limited                         NA        NA
## displacement:namecadillac eldorado                             NA        NA
## displacement:namecadillac seville                              NA        NA
## displacement:namecapri ii                                      NA        NA
## displacement:namechevroelt chevelle malibu                     NA        NA
## displacement:namechevrolet bel air                             NA        NA
## displacement:namechevrolet camaro                              NA        NA
## displacement:namechevrolet caprice classic             -1.695e+01        NaN
## displacement:namechevrolet cavalier                            NA        NA
## displacement:namechevrolet cavalier 2-door                     NA        NA
## displacement:namechevrolet cavalier wagon                      NA        NA
## displacement:namechevrolet chevelle concours (sw)              NA        NA
## displacement:namechevrolet chevelle malibu                     NA        NA
## displacement:namechevrolet chevelle malibu classic            NA        NA
## displacement:namechevrolet chevette                     8.781e+00        NaN
## displacement:namechevrolet citation                           NA        NA
## displacement:namechevrolet concours                           NA        NA
## displacement:namechevrolet impala                      -1.607e+01        NaN
## displacement:namechevrolet malibu                             NA        NA
## displacement:namechevrolet malibu classic (sw)               NA        NA
## displacement:namechevrolet monte carlo                        NA        NA
## displacement:namechevrolet monte carlo landau         -3.639e+01        NaN
## displacement:namechevrolet monte carlo s                      NA        NA
## displacement:namechevrolet monza 2+2                          NA        NA
## displacement:namechevrolet nova                               NA        NA
## displacement:namechevrolet nova custom                        NA        NA
## displacement:namechevrolet vega                               NA        NA
## displacement:namechevrolet vega (sw)                          NA        NA
## displacement:namechevrolet vega 2300                          NA        NA
## displacement:namechevrolet woody                             NA        NA
## displacement:namechevy c10                                    NA        NA
## displacement:namechevy c20                                    NA        NA
## displacement:namechevy s-10                                   NA        NA
## displacement:namechrysler cordoba                            NA        NA
## displacement:namechrysler lebaron medallion                  NA        NA
## displacement:namechrysler lebaron salon                      NA        NA
## displacement:namechrysler lebaron town @ country (sw)        NA        NA
## displacement:namechrysler new yorker brougham               NA        NA
## displacement:namechrysler newport royal                     NA        NA
## displacement:namedatsun 1200                                 NA        NA
## displacement:namedatsun 200-sx                               NA        NA
## displacement:namedatsun 200sx                                NA        NA
## displacement:namedatsun 210                                  NA        NA
## displacement:namedatsun 210 mpg                              NA        NA
## displacement:namedatsun 280-zx                               NA        NA
## displacement:namedatsun 310                                  NA        NA
## displacement:namedatsun 310 gx                               NA        NA
## displacement:namedatsun 510                                  NA        NA
## displacement:namedatsun 510 (sw)                             NA        NA
## displacement:namedatsun 510 hatchback                        NA        NA
## displacement:namedatsun 610                                  NA        NA
## displacement:namedatsun 710                          -1.928e+00        NaN
## displacement:namedatsun 810                                  NA        NA
## displacement:namedatsun 810 maxima                           NA        NA
## displacement:namedatsun b-210                                NA        NA
## displacement:namedatsun b210                                 NA        NA
## displacement:namedatsun b210 gx                              NA        NA
## displacement:namedatsun f-10 hatchback                       NA        NA
## displacement:namedatsun pl510                                NA        NA
## displacement:namedodge aries se                              NA        NA
## displacement:namedodge aries wagon (sw)                      NA        NA
```

```
## displacement:namedodge aspen                            NA        NA
## displacement:namedodge aspen 6                          NA        NA
## displacement:namedodge aspen se                         NA        NA
## displacement:namedodge challenger se                    NA        NA
## displacement:namedodge charger 2.2                      NA        NA
## displacement:namedodge colt                       9.813e+00       NaN
## displacement:namedodge colt (sw)                        NA        NA
## displacement:namedodge colt hardtop                     NA        NA
## displacement:namedodge colt hatchback custom            NA        NA
## displacement:namedodge colt m/m                         NA        NA
## displacement:namedodge coronet brougham                 NA        NA
## displacement:namedodge coronet custom                   NA        NA
## displacement:namedodge coronet custom (sw)              NA        NA
## displacement:namedodge d100                             NA        NA
## displacement:namedodge d200                             NA        NA
## displacement:namedodge dart custom                      NA        NA
## displacement:namedodge diplomat                         NA        NA
## displacement:namedodge magnum xe                        NA        NA
## displacement:namedodge monaco (sw)                      NA        NA
## displacement:namedodge monaco brougham                  NA        NA
## displacement:namedodge omni                             NA        NA
## displacement:namedodge rampage                          NA        NA
## displacement:namedodge st. regis                        NA        NA
## displacement:namefiat 124 sport coupe                   NA        NA
## displacement:namefiat 124 tc                            NA        NA
## displacement:namefiat 124b                              NA        NA
## displacement:namefiat 128                         -7.103e-01       NaN
## displacement:namefiat 131                               NA        NA
## displacement:namefiat strada custom                     NA        NA
## displacement:namefiat x1.9                              NA        NA
## displacement:nameford country                          NA        NA
## displacement:nameford country squire (sw)        -3.278e+01       NaN
## displacement:nameford escort 2h                         NA        NA
## displacement:nameford escort 4w                         NA        NA
## displacement:nameford f108                              NA        NA
## displacement:nameford f250                              NA        NA
## displacement:nameford fairmont                          NA        NA
## displacement:nameford fairmont (auto)                   NA        NA
## displacement:nameford fairmont (man)                    NA        NA
## displacement:nameford fairmont 4                        NA        NA
## displacement:nameford fairmont futura                   NA        NA
## displacement:nameford fiesta                            NA        NA
## displacement:nameford futura                            NA        NA
## displacement:nameford galaxie 500                 -4.126e+01       NaN
## displacement:nameford gran torino                 -1.879e+01       NaN
## displacement:nameford gran torino (sw)                  NA        NA
## displacement:nameford granada                           NA        NA
## displacement:nameford granada ghia                      NA        NA
## displacement:nameford granada gl                        NA        NA
## displacement:nameford granada l                         NA        NA
## displacement:nameford ltd                               NA        NA
## displacement:nameford ltd landau                        NA        NA
## displacement:nameford maverick                    -1.580e+00       NaN
## displacement:nameford mustang                           NA        NA
## displacement:nameford mustang gl                        NA        NA
## displacement:nameford mustang ii                        NA        NA
## displacement:nameford mustang ii 2+2                    NA        NA
## displacement:nameford pinto                        1.152e+01       NaN
## displacement:nameford pinto (sw)                        NA        NA
## displacement:nameford pinto runabout                    NA        NA
## displacement:nameford ranger                            NA        NA
## displacement:nameford thunderbird                       NA        NA
## displacement:nameford torino                            NA        NA
## displacement:nameford torino 500                        NA        NA
## displacement:namehi 1200d                               NA        NA
## displacement:namehonda accord                           NA        NA
## displacement:namehonda accord cvcc                      NA        NA
## displacement:namehonda accord lx                        NA        NA
## displacement:namehonda civic                      -2.369e+00       NaN
## displacement:namehonda civic (auto)                     NA        NA
## displacement:namehonda civic 1300                       NA        NA
## displacement:namehonda civic 1500 gl                    NA        NA
## displacement:namehonda civic cvcc                       NA        NA
## displacement:namehonda prelude                          NA        NA
## displacement:namemaxda glc deluxe                       NA        NA
## displacement:namemaxda rx3                              NA        NA
```

```
## displacement:namemazda 626                                  NA         NA
## displacement:namemazda glc                                  NA         NA
## displacement:namemazda glc 4                                NA         NA
## displacement:namemazda glc custom                           NA         NA
## displacement:namemazda glc custom l                         NA         NA
## displacement:namemazda glc deluxe                           NA         NA
## displacement:namemazda rx-4                                 NA         NA
## displacement:namemazda rx-7 gs                              NA         NA
## displacement:namemazda rx2 coupe                            NA         NA
## displacement:namemercedes benz 300d                         NA         NA
## displacement:namemercedes-benz 240d                         NA         NA
## displacement:namemercedes-benz 280s                         NA         NA
## displacement:namemercury capri 2000                         NA         NA
## displacement:namemercury capri v6                           NA         NA
## displacement:namemercury cougar brougham                    NA         NA
## displacement:namemercury grand marquis                      NA         NA
## displacement:namemercury lynx l                             NA         NA
## displacement:namemercury marquis                            NA         NA
## displacement:namemercury marquis brougham                   NA         NA
## displacement:namemercury monarch                            NA         NA
## displacement:namemercury monarch ghia                       NA         NA
## displacement:namemercury zephyr                             NA         NA
## displacement:namemercury zephyr 6                           NA         NA
## displacement:namenissan stanza xe                           NA         NA
## displacement:nameoldsmobile cutlass ciera (diesel)          NA         NA
## displacement:nameoldsmobile cutlass ls                      NA         NA
## displacement:nameoldsmobile cutlass salon brougham          NA         NA
## displacement:nameoldsmobile cutlass supreme                 NA         NA
## displacement:nameoldsmobile delta 88 royale                 NA         NA
## displacement:nameoldsmobile omega                           NA         NA
## displacement:nameoldsmobile omega brougham                  NA         NA
## displacement:nameoldsmobile starfire sx                     NA         NA
## displacement:nameoldsmobile vista cruiser                   NA         NA
## displacement:nameopel 1900                                  NA         NA
## displacement:nameopel manta                          7.265e+00        NaN
## displacement:namepeugeot 304                                NA         NA
## displacement:namepeugeot 504                          5.738e+00        NaN
## displacement:namepeugeot 504 (sw)                           NA         NA
## displacement:namepeugeot 505s turbo diesel                  NA         NA
## displacement:namepeugeot 604sl                              NA         NA
## displacement:nameplymouth 'cuda 340                         NA         NA
## displacement:nameplymouth arrow gs                          NA         NA
## displacement:nameplymouth champ                             NA         NA
## displacement:nameplymouth cricket                           NA         NA
## displacement:nameplymouth custom suburb                     NA         NA
## displacement:nameplymouth duster                            NA         NA
## displacement:nameplymouth fury                              NA         NA
## displacement:nameplymouth fury gran sedan                   NA         NA
## displacement:nameplymouth fury iii                   -3.956e+01        NaN
## displacement:nameplymouth grand fury                        NA         NA
## displacement:nameplymouth horizon                           NA         NA
## displacement:nameplymouth horizon 4                         NA         NA
## displacement:nameplymouth horizon miser                     NA         NA
## displacement:nameplymouth horizon tc3                       NA         NA
## displacement:nameplymouth reliant                           NA         NA
## displacement:nameplymouth sapporo                           NA         NA
## displacement:nameplymouth satellite                         NA         NA
## displacement:nameplymouth satellite custom                  NA         NA
## displacement:nameplymouth satellite custom (sw)             NA         NA
## displacement:nameplymouth satellite sebring                 NA         NA
## displacement:nameplymouth valiant                           NA         NA
## displacement:nameplymouth valiant custom                    NA         NA
## displacement:nameplymouth volare                            NA         NA
## displacement:nameplymouth volare custom                     NA         NA
## displacement:nameplymouth volare premier v8                 NA         NA
## displacement:namepontiac astro                              NA         NA
## displacement:namepontiac catalina                           NA         NA
## displacement:namepontiac catalina brougham                  NA         NA
## displacement:namepontiac firebird                           NA         NA
## displacement:namepontiac grand prix                         NA         NA
## displacement:namepontiac grand prix lj                      NA         NA
## displacement:namepontiac j2000 se hatchback                 NA         NA
## displacement:namepontiac lemans v6                          NA         NA
## displacement:namepontiac phoenix                            NA         NA
## displacement:namepontiac phoenix lj                         NA         NA
## displacement:namepontiac safari (sw)                        NA         NA
```

```
## displacement:namepontiac sunbird coupe                    NA       NA
## displacement:namepontiac ventura sj                       NA       NA
## displacement:namerenault 12 (sw)                          NA       NA
## displacement:namerenault 12tl                             NA       NA
## displacement:namerenault 5 gtl                            NA       NA
## displacement:namesaab 99e                                 NA       NA
## displacement:namesaab 99gle                               NA       NA
## displacement:namesaab 99le                                NA       NA
## displacement:namesubaru                            -4.363e+00      NaN
## displacement:namesubaru dl                                NA       NA
## displacement:nametoyota carina                            NA       NA
## displacement:nametoyota celica gt                         NA       NA
## displacement:nametoyota celica gt liftback               NA       NA
## displacement:nametoyota corolla                     3.101e-01      NaN
## displacement:nametoyota corolla 1200                      NA       NA
## displacement:nametoyota corolla 1600 (sw)                NA       NA
## displacement:nametoyota corolla liftback                 NA       NA
## displacement:nametoyota corolla tercel                   NA       NA
## displacement:nametoyota corona                            NA       NA
## displacement:nametoyota corona hardtop                   NA       NA
## displacement:nametoyota corona liftback                  NA       NA
## displacement:nametoyota corona mark ii                   NA       NA
## displacement:nametoyota cressida                         NA       NA
## displacement:nametoyota mark ii                          NA       NA
## displacement:nametoyota starlet                          NA       NA
## displacement:nametoyota tercel                           NA       NA
## displacement:nametoyouta corona mark ii (sw)             NA       NA
## displacement:nametriumph tr7 coupe                       NA       NA
## displacement:namevokswagen rabbit                        NA       NA
## displacement:namevolkswagen 1131 deluxe sedan            NA       NA
## displacement:namevolkswagen 411 (sw)                     NA       NA
## displacement:namevolkswagen dasher                 9.204e-01      NaN
## displacement:namevolkswagen jetta                        NA       NA
## displacement:namevolkswagen model 111                    NA       NA
## displacement:namevolkswagen rabbit                 5.203e+00      NaN
## displacement:namevolkswagen rabbit custom               NA       NA
## displacement:namevolkswagen rabbit custom diesel        NA       NA
## displacement:namevolkswagen rabbit l                    NA       NA
## displacement:namevolkswagen scirocco                    NA       NA
## displacement:namevolkswagen super beetle                NA       NA
## displacement:namevolkswagen type 3                      NA       NA
## displacement:namevolvo 144ea                            NA       NA
## displacement:namevolvo 145e (sw)                        NA       NA
## displacement:namevolvo 244dl                            NA       NA
## displacement:namevolvo 245                              NA       NA
## displacement:namevolvo 264gl                            NA       NA
## displacement:namevolvo diesel                           NA       NA
## displacement:namevw dasher (diesel)                     NA       NA
## displacement:namevw pickup                              NA       NA
## displacement:namevw rabbit                              NA       NA
## displacement:namevw rabbit c (diesel)                   NA       NA
## displacement:namevw rabbit custom                       NA       NA
## horsepower:weight                                 6.227e-03      NaN
## horsepower:acceleration                           3.414e-01      NaN
## horsepower:year                                  -9.627e-02      NaN
## horsepower:origin                                -4.742e+00      NaN
## horsepower:nameamc ambassador dpl                       NA       NA
## horsepower:nameamc ambassador sst                       NA       NA
## horsepower:nameamc concord                              NA       NA
## horsepower:nameamc concord d/l                          NA       NA
## horsepower:nameamc concord dl 6                         NA       NA
## horsepower:nameamc gremlin                              NA       NA
## horsepower:nameamc hornet                        -2.299e+01      NaN
## horsepower:nameamc hornet sportabout (sw)               NA       NA
## horsepower:nameamc matador                       -2.352e+01      NaN
## horsepower:nameamc matador (sw)                         NA       NA
## horsepower:nameamc pacer                                NA       NA
## horsepower:nameamc pacer d/l                            NA       NA
## horsepower:nameamc rebel sst                            NA       NA
## horsepower:nameamc spirit dl                            NA       NA
## horsepower:nameaudi 100 ls                              NA       NA
## horsepower:nameaudi 100ls                               NA       NA
## horsepower:nameaudi 4000                                NA       NA
## horsepower:nameaudi 5000                                NA       NA
## horsepower:nameaudi 5000s (diesel)                      NA       NA
## horsepower:nameaudi fox                                 NA       NA
```

```
## horsepower:namebmw 2002                                    NA          NA
## horsepower:namebmw 320i                                    NA          NA
## horsepower:namebuick century                               NA          NA
## horsepower:namebuick century 350                           NA          NA
## horsepower:namebuick century limited                       NA          NA
## horsepower:namebuick century luxus (sw)                    NA          NA
## horsepower:namebuick century special                       NA          NA
## horsepower:namebuick electra 225 custom                    NA          NA
## horsepower:namebuick estate wagon (sw)                     NA          NA
## horsepower:namebuick lesabre custom                        NA          NA
## horsepower:namebuick opel isuzu deluxe                     NA          NA
## horsepower:namebuick regal sport coupe (turbo)             NA          NA
## horsepower:namebuick skyhawk                               NA          NA
## horsepower:namebuick skylark                               NA          NA
## horsepower:namebuick skylark 320                           NA          NA
## horsepower:namebuick skylark limited                       NA          NA
## horsepower:namecadillac eldorado                           NA          NA
## horsepower:namecadillac seville                            NA          NA
## horsepower:namecapri ii                                    NA          NA
## horsepower:namechevroelt chevelle malibu                   NA          NA
## horsepower:namechevrolet bel air                           NA          NA
## horsepower:namechevrolet camaro                            NA          NA
## horsepower:namechevrolet caprice classic            -2.611e+01         NaN
## horsepower:namechevrolet cavalier                          NA          NA
## horsepower:namechevrolet cavalier 2-door                   NA          NA
## horsepower:namechevrolet cavalier wagon                    NA          NA
## horsepower:namechevrolet chevelle concours (sw)            NA          NA
## horsepower:namechevrolet chevelle malibu                   NA          NA
## horsepower:namechevrolet chevelle malibu classic           NA          NA
## horsepower:namechevrolet chevette                   -1.135e+01         NaN
## horsepower:namechevrolet citation                   -1.995e+00         NaN
## horsepower:namechevrolet concours                          NA          NA
## horsepower:namechevrolet impala                      -4.807e+01        NaN
## horsepower:namechevrolet malibu                            NA          NA
## horsepower:namechevrolet malibu classic (sw)               NA          NA
## horsepower:namechevrolet monte carlo                       NA          NA
## horsepower:namechevrolet monte carlo landau                NA          NA
## horsepower:namechevrolet monte carlo s                     NA          NA
## horsepower:namechevrolet monza 2+2                         NA          NA
## horsepower:namechevrolet nova                        -2.771e+01        NaN
## horsepower:namechevrolet nova custom                       NA          NA
## horsepower:namechevrolet vega                        -1.685e+01        NaN
## horsepower:namechevrolet vega (sw)                         NA          NA
## horsepower:namechevrolet vega 2300                         NA          NA
## horsepower:namechevrolet woody                             NA          NA
## horsepower:namechevy c10                                   NA          NA
## horsepower:namechevy c20                                   NA          NA
## horsepower:namechevy s-10                                  NA          NA
## horsepower:namechrysler cordoba                            NA          NA
## horsepower:namechrysler lebaron medallion                  NA          NA
## horsepower:namechrysler lebaron salon                      NA          NA
## horsepower:namechrysler lebaron town @ country (sw)        NA          NA
## horsepower:namechrysler new yorker brougham                NA          NA
## horsepower:namechrysler newport royal                      NA          NA
## horsepower:namedatsun 1200                                 NA          NA
## horsepower:namedatsun 200-sx                               NA          NA
## horsepower:namedatsun 200sx                                NA          NA
## horsepower:namedatsun 210                                  NA          NA
## horsepower:namedatsun 210 mpg                              NA          NA
## horsepower:namedatsun 280-zx                               NA          NA
## horsepower:namedatsun 310                                  NA          NA
## horsepower:namedatsun 310 gx                               NA          NA
## horsepower:namedatsun 510                                  NA          NA
## horsepower:namedatsun 510 (sw)                             NA          NA
## horsepower:namedatsun 510 hatchback                        NA          NA
## horsepower:namedatsun 610                                  NA          NA
## horsepower:namedatsun 710                                  NA          NA
## horsepower:namedatsun 810                                  NA          NA
## horsepower:namedatsun 810 maxima                           NA          NA
## horsepower:namedatsun b-210                                NA          NA
## horsepower:namedatsun b210                                 NA          NA
## horsepower:namedatsun b210 gx                              NA          NA
## horsepower:namedatsun f-10 hatchback                       NA          NA
## horsepower:namedatsun pl510                                NA          NA
## horsepower:namedodge aries se                              NA          NA
## horsepower:namedodge aries wagon (sw)                      NA          NA
```

```
## horsepower:namedodge aspen                          -2.242e+01        NaN
## horsepower:namedodge aspen 6                              NA          NA
## horsepower:namedodge aspen se                             NA          NA
## horsepower:namedodge challenger se                        NA          NA
## horsepower:namedodge charger 2.2                          NA          NA
## horsepower:namedodge colt                           -1.491e+01        NaN
## horsepower:namedodge colt (sw)                            NA          NA
## horsepower:namedodge colt hardtop                         NA          NA
## horsepower:namedodge colt hatchback custom                NA          NA
## horsepower:namedodge colt m/m                             NA          NA
## horsepower:namedodge coronet brougham                     NA          NA
## horsepower:namedodge coronet custom                       NA          NA
## horsepower:namedodge coronet custom (sw)                  NA          NA
## horsepower:namedodge d100                                 NA          NA
## horsepower:namedodge d200                                 NA          NA
## horsepower:namedodge dart custom                          NA          NA
## horsepower:namedodge diplomat                             NA          NA
## horsepower:namedodge magnum xe                            NA          NA
## horsepower:namedodge monaco (sw)                          NA          NA
## horsepower:namedodge monaco brougham                      NA          NA
## horsepower:namedodge omni                                 NA          NA
## horsepower:namedodge rampage                              NA          NA
## horsepower:namedodge st. regis                            NA          NA
## horsepower:namefiat 124 sport coupe                       NA          NA
## horsepower:namefiat 124 tc                                NA          NA
## horsepower:namefiat 124b                                  NA          NA
## horsepower:namefiat 128                                   NA          NA
## horsepower:namefiat 131                                   NA          NA
## horsepower:namefiat strada custom                         NA          NA
## horsepower:namefiat x1.9                                  NA          NA
## horsepower:nameford country                               NA          NA
## horsepower:nameford country squire (sw)                   NA          NA
## horsepower:nameford escort 2h                             NA          NA
## horsepower:nameford escort 4w                             NA          NA
## horsepower:nameford f108                                  NA          NA
## horsepower:nameford f250                                  NA          NA
## horsepower:nameford fairmont                              NA          NA
## horsepower:nameford fairmont (auto)                       NA          NA
## horsepower:nameford fairmont (man)                        NA          NA
## horsepower:nameford fairmont 4                            NA          NA
## horsepower:nameford fairmont futura                       NA          NA
## horsepower:nameford fiesta                                NA          NA
## horsepower:nameford futura                                NA          NA
## horsepower:nameford galaxie 500                           NA          NA
## horsepower:nameford gran torino                     -2.784e+01        NaN
## horsepower:nameford gran torino (sw)                      NA          NA
## horsepower:nameford granada                               NA          NA
## horsepower:nameford granada ghia                          NA          NA
## horsepower:nameford granada gl                            NA          NA
## horsepower:nameford granada l                             NA          NA
## horsepower:nameford ltd                              -4.153e+01        NaN
## horsepower:nameford ltd landau                            NA          NA
## horsepower:nameford maverick                         -2.986e+01        NaN
## horsepower:nameford mustang                               NA          NA
## horsepower:nameford mustang gl                            NA          NA
## horsepower:nameford mustang ii                            NA          NA
## horsepower:nameford mustang ii 2+2                        NA          NA
## horsepower:nameford pinto                            -1.429e+01        NaN
## horsepower:nameford pinto (sw)                            NA          NA
## horsepower:nameford pinto runabout                        NA          NA
## horsepower:nameford ranger                                NA          NA
## horsepower:nameford thunderbird                           NA          NA
## horsepower:nameford torino                                NA          NA
## horsepower:nameford torino 500                            NA          NA
## horsepower:namehi 1200d                                   NA          NA
## horsepower:namehonda accord                          -3.263e+00        NaN
## horsepower:namehonda accord cvcc                          NA          NA
## horsepower:namehonda accord lx                            NA          NA
## horsepower:namehonda civic                            5.459e-01        NaN
## horsepower:namehonda civic (auto)                         NA          NA
## horsepower:namehonda civic 1300                           NA          NA
## horsepower:namehonda civic 1500 gl                        NA          NA
## horsepower:namehonda civic cvcc                       1.358e+00        NaN
## horsepower:namehonda prelude                              NA          NA
## horsepower:namemaxda glc deluxe                           NA          NA
## horsepower:namemaxda rx3                                  NA          NA
```

```
## horsepower:namemazda 626                              -1.008e+01        NaN
## horsepower:namemazda glc                                    NA          NA
## horsepower:namemazda glc 4                                  NA          NA
## horsepower:namemazda glc custom                             NA          NA
## horsepower:namemazda glc custom l                           NA          NA
## horsepower:namemazda glc deluxe                             NA          NA
## horsepower:namemazda rx-4                                   NA          NA
## horsepower:namemazda rx-7 gs                                NA          NA
## horsepower:namemazda rx2 coupe                              NA          NA
## horsepower:namemercedes benz 300d                           NA          NA
## horsepower:namemercedes-benz 240d                           NA          NA
## horsepower:namemercedes-benz 280s                           NA          NA
## horsepower:namemercury capri 2000                           NA          NA
## horsepower:namemercury capri v6                             NA          NA
## horsepower:namemercury cougar brougham                      NA          NA
## horsepower:namemercury grand marquis                        NA          NA
## horsepower:namemercury lynx l                               NA          NA
## horsepower:namemercury marquis                              NA          NA
## horsepower:namemercury marquis brougham                     NA          NA
## horsepower:namemercury monarch                              NA          NA
## horsepower:namemercury monarch ghia                         NA          NA
## horsepower:namemercury zephyr                               NA          NA
## horsepower:namemercury zephyr 6                             NA          NA
## horsepower:namenissan stanza xe                             NA          NA
## horsepower:nameoldsmobile cutlass ciera (diesel)            NA          NA
## horsepower:nameoldsmobile cutlass ls                        NA          NA
## horsepower:nameoldsmobile cutlass salon brougham      -2.421e+01        NaN
## horsepower:nameoldsmobile cutlass supreme                   NA          NA
## horsepower:nameoldsmobile delta 88 royale                   NA          NA
## horsepower:nameoldsmobile omega                             NA          NA
## horsepower:nameoldsmobile omega brougham                    NA          NA
## horsepower:nameoldsmobile starfire sx                       NA          NA
## horsepower:nameoldsmobile vista cruiser                     NA          NA
## horsepower:nameopel 1900                              -5.764e+00        NaN
## horsepower:nameopel manta                                   NA          NA
## horsepower:namepeugeot 304                                  NA          NA
## horsepower:namepeugeot 504                            -2.478e+01        NaN
## horsepower:namepeugeot 504 (sw)                             NA          NA
## horsepower:namepeugeot 505s turbo diesel                    NA          NA
## horsepower:namepeugeot 604sl                                NA          NA
## horsepower:nameplymouth 'cuda 340                           NA          NA
## horsepower:nameplymouth arrow gs                            NA          NA
## horsepower:nameplymouth champ                               NA          NA
## horsepower:nameplymouth cricket                             NA          NA
## horsepower:nameplymouth custom suburb                       NA          NA
## horsepower:nameplymouth duster                              NA          NA
## horsepower:nameplymouth fury                                NA          NA
## horsepower:nameplymouth fury gran sedan                     NA          NA
## horsepower:nameplymouth fury iii                            NA          NA
## horsepower:nameplymouth grand fury                          NA          NA
## horsepower:nameplymouth horizon                             NA          NA
## horsepower:nameplymouth horizon 4                           NA          NA
## horsepower:nameplymouth horizon miser                       NA          NA
## horsepower:nameplymouth horizon tc3                         NA          NA
## horsepower:nameplymouth reliant                             NA          NA
## horsepower:nameplymouth sapporo                             NA          NA
## horsepower:nameplymouth satellite                          NA          NA
## horsepower:nameplymouth satellite custom                    NA          NA
## horsepower:nameplymouth satellite custom (sw)               NA          NA
## horsepower:nameplymouth satellite sebring                   NA          NA
## horsepower:nameplymouth valiant                       -2.340e+01        NaN
## horsepower:nameplymouth valiant custom                      NA          NA
## horsepower:nameplymouth volare                              NA          NA
## horsepower:nameplymouth volare custom                       NA          NA
## horsepower:nameplymouth volare premier v8                   NA          NA
## horsepower:namepontiac astro                                NA          NA
## horsepower:namepontiac catalina                       -6.465e+01        NaN
## horsepower:namepontiac catalina brougham                    NA          NA
## horsepower:namepontiac firebird                             NA          NA
## horsepower:namepontiac grand prix                           NA          NA
## horsepower:namepontiac grand prix lj                        NA          NA
## horsepower:namepontiac j2000 se hatchback                   NA          NA
## horsepower:namepontiac lemans v6                            NA          NA
## horsepower:namepontiac phoenix                              NA          NA
## horsepower:namepontiac phoenix lj                           NA          NA
## horsepower:namepontiac safari (sw)                          NA          NA
```

```
## horsepower:namepontiac sunbird coupe                   NA        NA
## horsepower:namepontiac ventura sj                      NA        NA
## horsepower:namerenault 12 (sw)                         NA        NA
## horsepower:namerenault 12tl                            NA        NA
## horsepower:namerenault 5 gtl                           NA        NA
## horsepower:namesaab 99e                                NA        NA
## horsepower:namesaab 99gle                              NA        NA
## horsepower:namesaab 99le                         -9.820e+00     NaN
## horsepower:namesubaru                                  NA        NA
## horsepower:namesubaru dl                               NA        NA
## horsepower:nametoyota carina                           NA        NA
## horsepower:nametoyota celica gt                        NA        NA
## horsepower:nametoyota celica gt liftback               NA        NA
## horsepower:nametoyota corolla                    -2.486e+00     NaN
## horsepower:nametoyota corolla 1200                     NA        NA
## horsepower:nametoyota corolla 1600 (sw)                NA        NA
## horsepower:nametoyota corolla liftback                 NA        NA
## horsepower:nametoyota corolla tercel                   NA        NA
## horsepower:nametoyota corona                           NA        NA
## horsepower:nametoyota corona hardtop                   NA        NA
## horsepower:nametoyota corona liftback                  NA        NA
## horsepower:nametoyota corona mark ii                   NA        NA
## horsepower:nametoyota cressida                         NA        NA
## horsepower:nametoyota mark ii                          NA        NA
## horsepower:nametoyota starlet                          NA        NA
## horsepower:nametoyota tercel                           NA        NA
## horsepower:nametoyouta corona mark ii (sw)             NA        NA
## horsepower:nametriumph tr7 coupe                       NA        NA
## horsepower:namevokswagen rabbit                        NA        NA
## horsepower:namevolkswagen 1131 deluxe sedan            NA        NA
## horsepower:namevolkswagen 411 (sw)                     NA        NA
## horsepower:namevolkswagen dasher                       NA        NA
## horsepower:namevolkswagen jetta                        NA        NA
## horsepower:namevolkswagen model 111                    NA        NA
## horsepower:namevolkswagen rabbit                       NA        NA
## horsepower:namevolkswagen rabbit custom                NA        NA
## horsepower:namevolkswagen rabbit custom diesel         NA        NA
## horsepower:namevolkswagen rabbit l                     NA        NA
## horsepower:namevolkswagen scirocco                     NA        NA
## horsepower:namevolkswagen super beetle                 NA        NA
## horsepower:namevolkswagen type 3                       NA        NA
## horsepower:namevolvo 144ea                             NA        NA
## horsepower:namevolvo 145e (sw)                         NA        NA
## horsepower:namevolvo 244dl                             NA        NA
## horsepower:namevolvo 245                               NA        NA
## horsepower:namevolvo 264gl                             NA        NA
## horsepower:namevolvo diesel                            NA        NA
## horsepower:namevw dasher (diesel)                      NA        NA
## horsepower:namevw pickup                               NA        NA
## horsepower:namevw rabbit                               NA        NA
## horsepower:namevw rabbit c (diesel)                    NA        NA
## horsepower:namevw rabbit custom                        NA        NA
## weight:acceleration                             -5.769e-03     NaN
## weight:year                                      7.250e-03     NaN
## weight:origin                                   -3.458e-02     NaN
## weight:nameamc ambassador dpl                          NA        NA
## weight:nameamc ambassador sst                          NA        NA
## weight:nameamc concord                                 NA        NA
## weight:nameamc concord d/l                             NA        NA
## weight:nameamc concord dl 6                            NA        NA
## weight:nameamc gremlin                           2.250e-01     NaN
## weight:nameamc hornet                            2.047e-01     NaN
## weight:nameamc hornet sportabout (sw)                  NA        NA
## weight:nameamc matador                           2.936e-01     NaN
## weight:nameamc matador (sw)                     -6.943e-02     NaN
## weight:nameamc pacer                                   NA        NA
## weight:nameamc pacer d/l                               NA        NA
## weight:nameamc rebel sst                               NA        NA
## weight:nameamc spirit dl                               NA        NA
## weight:nameaudi 100 ls                                 NA        NA
## weight:nameaudi 100ls                                  NA        NA
## weight:nameaudi 4000                                   NA        NA
## weight:nameaudi 5000                                   NA        NA
## weight:nameaudi 5000s (diesel)                         NA        NA
## weight:nameaudi fox                                    NA        NA
## weight:namebmw 2002                                    NA        NA
```

```
## weight:namebmw 320i                                      NA        NA
## weight:namebuick century                          2.116e-01       NaN
## weight:namebuick century 350                              NA        NA
## weight:namebuick century limited                         NA        NA
## weight:namebuick century luxus (sw)                      NA        NA
## weight:namebuick century special                         NA        NA
## weight:namebuick electra 225 custom                      NA        NA
## weight:namebuick estate wagon (sw)                       NA        NA
## weight:namebuick lesabre custom                          NA        NA
## weight:namebuick opel isuzu deluxe                       NA        NA
## weight:namebuick regal sport coupe (turbo)               NA        NA
## weight:namebuick skyhawk                                 NA        NA
## weight:namebuick skylark                                 NA        NA
## weight:namebuick skylark 320                             NA        NA
## weight:namebuick skylark limited                         NA        NA
## weight:namecadillac eldorado                             NA        NA
## weight:namecadillac seville                              NA        NA
## weight:namecapri ii                                      NA        NA
## weight:namechevroelt chevelle malibu                     NA        NA
## weight:namechevrolet bel air                             NA        NA
## weight:namechevrolet camaro                              NA        NA
## weight:namechevrolet caprice classic                     NA        NA
## weight:namechevrolet cavalier                            NA        NA
## weight:namechevrolet cavalier 2-door                     NA        NA
## weight:namechevrolet cavalier wagon                      NA        NA
## weight:namechevrolet chevelle concours (sw)              NA        NA
## weight:namechevrolet chevelle malibu                     NA        NA
## weight:namechevrolet chevelle malibu classic             NA        NA
## weight:namechevrolet chevette                      -5.971e-02       NaN
## weight:namechevrolet citation                            NA        NA
## weight:namechevrolet concours                            NA        NA
## weight:namechevrolet impala                        1.436e-01       NaN
## weight:namechevrolet malibu                              NA        NA
## weight:namechevrolet malibu classic (sw)                 NA        NA
## weight:namechevrolet monte carlo                         NA        NA
## weight:namechevrolet monte carlo landau                  NA        NA
## weight:namechevrolet monte carlo s                       NA        NA
## weight:namechevrolet monza 2+2                           NA        NA
## weight:namechevrolet nova                          3.239e-01       NaN
## weight:namechevrolet nova custom                         NA        NA
## weight:namechevrolet vega                          8.181e-02       NaN
## weight:namechevrolet vega (sw)                           NA        NA
## weight:namechevrolet vega 2300                           NA        NA
## weight:namechevrolet woody                               NA        NA
## weight:namechevy c10                                     NA        NA
## weight:namechevy c20                                     NA        NA
## weight:namechevy s-10                                    NA        NA
## weight:namechrysler cordoba                              NA        NA
## weight:namechrysler lebaron medallion                    NA        NA
## weight:namechrysler lebaron salon                        NA        NA
## weight:namechrysler lebaron town @ country (sw)          NA        NA
## weight:namechrysler new yorker brougham                  NA        NA
## weight:namechrysler newport royal                        NA        NA
## weight:namedatsun 1200                                   NA        NA
## weight:namedatsun 200-sx                                 NA        NA
## weight:namedatsun 200sx                                  NA        NA
## weight:namedatsun 210                             -2.938e-02       NaN
## weight:namedatsun 210 mpg                                NA        NA
## weight:namedatsun 280-zx                                 NA        NA
## weight:namedatsun 310                                    NA        NA
## weight:namedatsun 310 gx                                 NA        NA
## weight:namedatsun 510                                    NA        NA
## weight:namedatsun 510 (sw)                               NA        NA
## weight:namedatsun 510 hatchback                          NA        NA
## weight:namedatsun 610                                    NA        NA
## weight:namedatsun 710                                    NA        NA
## weight:namedatsun 810                                    NA        NA
## weight:namedatsun 810 maxima                             NA        NA
## weight:namedatsun b-210                                  NA        NA
## weight:namedatsun b210                                   NA        NA
## weight:namedatsun b210 gx                                NA        NA
## weight:namedatsun f-10 hatchback                         NA        NA
## weight:namedatsun pl510                                  NA        NA
## weight:namedodge aries se                                NA        NA
## weight:namedodge aries wagon (sw)                        NA        NA
## weight:namedodge aspen                                   NA        NA
```

```
## weight:namedodge aspen 6                              NA          NA
## weight:namedodge aspen se                             NA          NA
## weight:namedodge challenger se                        NA          NA
## weight:namedodge charger 2.2                          NA          NA
## weight:namedodge colt                                 NA          NA
## weight:namedodge colt (sw)                            NA          NA
## weight:namedodge colt hardtop                         NA          NA
## weight:namedodge colt hatchback custom                NA          NA
## weight:namedodge colt m/m                             NA          NA
## weight:namedodge coronet brougham                     NA          NA
## weight:namedodge coronet custom                       NA          NA
## weight:namedodge coronet custom (sw)                  NA          NA
## weight:namedodge d100                                 NA          NA
## weight:namedodge d200                                 NA          NA
## weight:namedodge dart custom                          NA          NA
## weight:namedodge diplomat                             NA          NA
## weight:namedodge magnum xe                            NA          NA
## weight:namedodge monaco (sw)                          NA          NA
## weight:namedodge monaco brougham                      NA          NA
## weight:namedodge omni                                 NA          NA
## weight:namedodge rampage                              NA          NA
## weight:namedodge st. regis                            NA          NA
## weight:namefiat 124 sport coupe                       NA          NA
## weight:namefiat 124 tc                                NA          NA
## weight:namefiat 124b                                  NA          NA
## weight:namefiat 128                                   NA          NA
## weight:namefiat 131                                   NA          NA
## weight:namefiat strada custom                         NA          NA
## weight:namefiat x1.9                                  NA          NA
## weight:nameford country                              NA          NA
## weight:nameford country squire (sw)                   NA          NA
## weight:nameford escort 2h                             NA          NA
## weight:nameford escort 4w                             NA          NA
## weight:nameford f108                                  NA          NA
## weight:nameford f250                                  NA          NA
## weight:nameford fairmont                              NA          NA
## weight:nameford fairmont (auto)                       NA          NA
## weight:nameford fairmont (man)                        NA          NA
## weight:nameford fairmont 4                            NA          NA
## weight:nameford fairmont futura                       NA          NA
## weight:nameford fiesta                                NA          NA
## weight:nameford futura                                NA          NA
## weight:nameford galaxie 500                    2.438e-01          NaN
## weight:nameford gran torino                           NA          NA
## weight:nameford gran torino (sw)                      NA          NA
## weight:nameford granada                               NA          NA
## weight:nameford granada ghia                          NA          NA
## weight:nameford granada gl                            NA          NA
## weight:nameford granada l                             NA          NA
## weight:nameford ltd                                   NA          NA
## weight:nameford ltd landau                            NA          NA
## weight:nameford maverick                              NA          NA
## weight:nameford mustang                               NA          NA
## weight:nameford mustang gl                            NA          NA
## weight:nameford mustang ii                            NA          NA
## weight:nameford mustang ii 2+2                        NA          NA
## weight:nameford pinto                                 NA          NA
## weight:nameford pinto (sw)                            NA          NA
## weight:nameford pinto runabout                        NA          NA
## weight:nameford ranger                                NA          NA
## weight:nameford thunderbird                           NA          NA
## weight:nameford torino                                NA          NA
## weight:nameford torino 500                            NA          NA
## weight:namehi 1200d                                   NA          NA
## weight:namehonda accord                               NA          NA
## weight:namehonda accord cvcc                          NA          NA
## weight:namehonda accord lx                            NA          NA
## weight:namehonda civic                                NA          NA
## weight:namehonda civic (auto)                         NA          NA
## weight:namehonda civic 1300                           NA          NA
## weight:namehonda civic 1500 gl                        NA          NA
## weight:namehonda civic cvcc                           NA          NA
## weight:namehonda prelude                              NA          NA
## weight:namemaxda glc deluxe                           NA          NA
## weight:namemaxda rx3                                  NA          NA
## weight:namemazda 626                                  NA          NA
```

```
## weight:namemazda glc                                    NA          NA
## weight:namemazda glc 4                                  NA          NA
## weight:namemazda glc custom                             NA          NA
## weight:namemazda glc custom l                           NA          NA
## weight:namemazda glc deluxe                             NA          NA
## weight:namemazda rx-4                                   NA          NA
## weight:namemazda rx-7 gs                                NA          NA
## weight:namemazda rx2 coupe                              NA          NA
## weight:namemercedes benz 300d                           NA          NA
## weight:namemercedes-benz 240d                           NA          NA
## weight:namemercedes-benz 280s                           NA          NA
## weight:namemercury capri 2000                           NA          NA
## weight:namemercury capri v6                             NA          NA
## weight:namemercury cougar brougham                      NA          NA
## weight:namemercury grand marquis                        NA          NA
## weight:namemercury lynx l                               NA          NA
## weight:namemercury marquis                              NA          NA
## weight:namemercury marquis brougham                     NA          NA
## weight:namemercury monarch                              NA          NA
## weight:namemercury monarch ghia                         NA          NA
## weight:namemercury zephyr                               NA          NA
## weight:namemercury zephyr 6                             NA          NA
## weight:namenissan stanza xe                             NA          NA
## weight:nameoldsmobile cutlass ciera (diesel)            NA          NA
## weight:nameoldsmobile cutlass ls                        NA          NA
## weight:nameoldsmobile cutlass salon brougham            NA          NA
## weight:nameoldsmobile cutlass supreme                   NA          NA
## weight:nameoldsmobile delta 88 royale                   NA          NA
## weight:nameoldsmobile omega                             NA          NA
## weight:nameoldsmobile omega brougham                    NA          NA
## weight:nameoldsmobile starfire sx                       NA          NA
## weight:nameoldsmobile vista cruiser                     NA          NA
## weight:nameopel 1900                                    NA          NA
## weight:nameopel manta                                   NA          NA
## weight:namepeugeot 304                                  NA          NA
## weight:namepeugeot 504                                  NA          NA
## weight:namepeugeot 504 (sw)                             NA          NA
## weight:namepeugeot 505s turbo diesel                    NA          NA
## weight:namepeugeot 604sl                                NA          NA
## weight:nameplymouth 'cuda 340                           NA          NA
## weight:nameplymouth arrow gs                            NA          NA
## weight:nameplymouth champ                               NA          NA
## weight:nameplymouth cricket                             NA          NA
## weight:nameplymouth custom suburb                       NA          NA
## weight:nameplymouth duster                              NA          NA
## weight:nameplymouth fury                                NA          NA
## weight:nameplymouth fury gran sedan                     NA          NA
## weight:nameplymouth fury iii                            NA          NA
## weight:nameplymouth grand fury                          NA          NA
## weight:nameplymouth horizon                             NA          NA
## weight:nameplymouth horizon 4                           NA          NA
## weight:nameplymouth horizon miser                       NA          NA
## weight:nameplymouth horizon tc3                         NA          NA
## weight:nameplymouth reliant                             NA          NA
## weight:nameplymouth sapporo                             NA          NA
## weight:nameplymouth satellite                           NA          NA
## weight:nameplymouth satellite custom                    NA          NA
## weight:nameplymouth satellite custom (sw)               NA          NA
## weight:nameplymouth satellite sebring                   NA          NA
## weight:nameplymouth valiant                             NA          NA
## weight:nameplymouth valiant custom                      NA          NA
## weight:nameplymouth volare                              NA          NA
## weight:nameplymouth volare custom                       NA          NA
## weight:nameplymouth volare premier v8                   NA          NA
## weight:namepontiac astro                                NA          NA
## weight:namepontiac catalina                             NA          NA
## weight:namepontiac catalina brougham                    NA          NA
## weight:namepontiac firebird                             NA          NA
## weight:namepontiac grand prix                           NA          NA
## weight:namepontiac grand prix lj                        NA          NA
## weight:namepontiac j2000 se hatchback                   NA          NA
## weight:namepontiac lemans v6                            NA          NA
## weight:namepontiac phoenix                              NA          NA
## weight:namepontiac phoenix lj                           NA          NA
## weight:namepontiac safari (sw)                          NA          NA
## weight:namepontiac sunbird coupe                        NA          NA
```

```
## weight:namepontiac ventura sj                    NA          NA
## weight:namerenault 12 (sw)                        NA          NA
## weight:namerenault 12tl                           NA          NA
## weight:namerenault 5 gtl                          NA          NA
## weight:namesaab 99e                               NA          NA
## weight:namesaab 99gle                             NA          NA
## weight:namesaab 99le                              NA          NA
## weight:namesubaru                                 NA          NA
## weight:namesubaru dl                              NA          NA
## weight:nametoyota carina                          NA          NA
## weight:nametoyota celica gt                       NA          NA
## weight:nametoyota celica gt liftback             NA          NA
## weight:nametoyota corolla                         NA          NA
## weight:nametoyota corolla 1200                    NA          NA
## weight:nametoyota corolla 1600 (sw)               NA          NA
## weight:nametoyota corolla liftback               NA          NA
## weight:nametoyota corolla tercel                 NA          NA
## weight:nametoyota corona                          NA          NA
## weight:nametoyota corona hardtop                 NA          NA
## weight:nametoyota corona liftback                NA          NA
## weight:nametoyota corona mark ii                 NA          NA
## weight:nametoyota cressida                        NA          NA
## weight:nametoyota mark ii                         NA          NA
## weight:nametoyota starlet                         NA          NA
## weight:nametoyota tercel                          NA          NA
## weight:nametoyouta corona mark ii (sw)            NA          NA
## weight:nametriumph tr7 coupe                      NA          NA
## weight:namevokswagen rabbit                       NA          NA
## weight:namevolkswagen 1131 deluxe sedan           NA          NA
## weight:namevolkswagen 411 (sw)                    NA          NA
## weight:namevolkswagen dasher                      NA          NA
## weight:namevolkswagen jetta                       NA          NA
## weight:namevolkswagen model 111                   NA          NA
## weight:namevolkswagen rabbit                      NA          NA
## weight:namevolkswagen rabbit custom               NA          NA
## weight:namevolkswagen rabbit custom diesel        NA          NA
## weight:namevolkswagen rabbit l                    NA          NA
## weight:namevolkswagen scirocco                    NA          NA
## weight:namevolkswagen super beetle                NA          NA
## weight:namevolkswagen type 3                      NA          NA
## weight:namevolvo 144ea                            NA          NA
## weight:namevolvo 145e (sw)                        NA          NA
## weight:namevolvo 244dl                            NA          NA
## weight:namevolvo 245                              NA          NA
## weight:namevolvo 264gl                            NA          NA
## weight:namevolvo diesel                           NA          NA
## weight:namevw dasher (diesel)                     NA          NA
## weight:namevw pickup                              NA          NA
## weight:namevw rabbit                              NA          NA
## weight:namevw rabbit c (diesel)                   NA          NA
## weight:namevw rabbit custom                       NA          NA
## acceleration:year                                 NA          NA
## acceleration:origin                               NA          NA
## acceleration:nameamc ambassador dpl               NA          NA
## acceleration:nameamc ambassador sst               NA          NA
## acceleration:nameamc concord                      NA          NA
## acceleration:nameamc concord d/l                  NA          NA
## acceleration:nameamc concord dl 6                 NA          NA
## acceleration:nameamc gremlin                      NA          NA
## acceleration:nameamc hornet                       NA          NA
## acceleration:nameamc hornet sportabout (sw)       NA          NA
## acceleration:nameamc matador                      NA          NA
## acceleration:nameamc matador (sw)                 NA          NA
## acceleration:nameamc pacer                        NA          NA
## acceleration:nameamc pacer d/l                    NA          NA
## acceleration:nameamc rebel sst                    NA          NA
## acceleration:nameamc spirit dl                    NA          NA
## acceleration:nameaudi 100 ls                      NA          NA
## acceleration:nameaudi 100ls                       NA          NA
## acceleration:nameaudi 4000                        NA          NA
## acceleration:nameaudi 5000                        NA          NA
## acceleration:nameaudi 5000s (diesel)              NA          NA
## acceleration:nameaudi fox                         NA          NA
## acceleration:namebmw 2002                         NA          NA
## acceleration:namebmw 320i                         NA          NA
## acceleration:namebuick century                    NA          NA
```

```
## acceleration:namebuick century 350                              NA          NA
## acceleration:namebuick century limited                          NA          NA
## acceleration:namebuick century luxus (sw)                       NA          NA
## acceleration:namebuick century special                          NA          NA
## acceleration:namebuick electra 225 custom                       NA          NA
## acceleration:namebuick estate wagon (sw)                        NA          NA
## acceleration:namebuick lesabre custom                           NA          NA
## acceleration:namebuick opel isuzu deluxe                        NA          NA
## acceleration:namebuick regal sport coupe (turbo)                NA          NA
## acceleration:namebuick skyhawk                                  NA          NA
## acceleration:namebuick skylark                                  NA          NA
## acceleration:namebuick skylark 320                              NA          NA
## acceleration:namebuick skylark limited                          NA          NA
## acceleration:namecadillac eldorado                              NA          NA
## acceleration:namecadillac seville                               NA          NA
## acceleration:namecapri ii                                       NA          NA
## acceleration:namechevroelt chevelle malibu                      NA          NA
## acceleration:namechevrolet bel air                              NA          NA
## acceleration:namechevrolet camaro                               NA          NA
## acceleration:namechevrolet caprice classic                      NA          NA
## acceleration:namechevrolet cavalier                             NA          NA
## acceleration:namechevrolet cavalier 2-door                      NA          NA
## acceleration:namechevrolet cavalier wagon                       NA          NA
## acceleration:namechevrolet chevelle concours (sw)               NA          NA
## acceleration:namechevrolet chevelle malibu                      NA          NA
## acceleration:namechevrolet chevelle malibu classic              NA          NA
## acceleration:namechevrolet chevette                             NA          NA
## acceleration:namechevrolet citation                             NA          NA
## acceleration:namechevrolet concours                             NA          NA
## acceleration:namechevrolet impala                               NA          NA
## acceleration:namechevrolet malibu                               NA          NA
## acceleration:namechevrolet malibu classic (sw)                  NA          NA
## acceleration:namechevrolet monte carlo                          NA          NA
## acceleration:namechevrolet monte carlo landau                   NA          NA
## acceleration:namechevrolet monte carlo s                        NA          NA
## acceleration:namechevrolet monza 2+2                            NA          NA
## acceleration:namechevrolet nova                                 NA          NA
## acceleration:namechevrolet nova custom                          NA          NA
## acceleration:namechevrolet vega                                 NA          NA
## acceleration:namechevrolet vega (sw)                            NA          NA
## acceleration:namechevrolet vega 2300                            NA          NA
## acceleration:namechevrolet woody                                NA          NA
## acceleration:namechevy c10                                      NA          NA
## acceleration:namechevy c20                                      NA          NA
## acceleration:namechevy s-10                                     NA          NA
## acceleration:namechrysler cordoba                               NA          NA
## acceleration:namechrysler lebaron medallion                     NA          NA
## acceleration:namechrysler lebaron salon                         NA          NA
## acceleration:namechrysler lebaron town @ country (sw)           NA          NA
## acceleration:namechrysler new yorker brougham                   NA          NA
## acceleration:namechrysler newport royal                         NA          NA
## acceleration:namedatsun 1200                                    NA          NA
## acceleration:namedatsun 200-sx                                  NA          NA
## acceleration:namedatsun 200sx                                   NA          NA
## acceleration:namedatsun 210                                     NA          NA
## acceleration:namedatsun 210 mpg                                 NA          NA
## acceleration:namedatsun 280-zx                                  NA          NA
## acceleration:namedatsun 310                                     NA          NA
## acceleration:namedatsun 310 gx                                  NA          NA
## acceleration:namedatsun 510                                     NA          NA
## acceleration:namedatsun 510 (sw)                                NA          NA
## acceleration:namedatsun 510 hatchback                           NA          NA
## acceleration:namedatsun 610                                     NA          NA
## acceleration:namedatsun 710                                     NA          NA
## acceleration:namedatsun 810                                     NA          NA
## acceleration:namedatsun 810 maxima                              NA          NA
## acceleration:namedatsun b-210                                   NA          NA
## acceleration:namedatsun b210                                    NA          NA
## acceleration:namedatsun b210 gx                                 NA          NA
## acceleration:namedatsun f-10 hatchback                          NA          NA
## acceleration:namedatsun pl510                                   NA          NA
## acceleration:namedodge aries se                                 NA          NA
## acceleration:namedodge aries wagon (sw)                         NA          NA
## acceleration:namedodge aspen                                    NA          NA
## acceleration:namedodge aspen 6                                  NA          NA
## acceleration:namedodge aspen se                                 NA          NA
```

```
## acceleration:namedodge challenger se                      NA        NA
## acceleration:namedodge charger 2.2                        NA        NA
## acceleration:namedodge colt                               NA        NA
## acceleration:namedodge colt (sw)                          NA        NA
## acceleration:namedodge colt hardtop                       NA        NA
## acceleration:namedodge colt hatchback custom              NA        NA
## acceleration:namedodge colt m/m                           NA        NA
## acceleration:namedodge coronet brougham                   NA        NA
## acceleration:namedodge coronet custom                     NA        NA
## acceleration:namedodge coronet custom (sw)                NA        NA
## acceleration:namedodge d100                               NA        NA
## acceleration:namedodge d200                               NA        NA
## acceleration:namedodge dart custom                        NA        NA
## acceleration:namedodge diplomat                           NA        NA
## acceleration:namedodge magnum xe                          NA        NA
## acceleration:namedodge monaco (sw)                        NA        NA
## acceleration:namedodge monaco brougham                    NA        NA
## acceleration:namedodge omni                               NA        NA
## acceleration:namedodge rampage                            NA        NA
## acceleration:namedodge st. regis                          NA        NA
## acceleration:namefiat 124 sport coupe                     NA        NA
## acceleration:namefiat 124 tc                              NA        NA
## acceleration:namefiat 124b                                NA        NA
## acceleration:namefiat 128                                 NA        NA
## acceleration:namefiat 131                                 NA        NA
## acceleration:namefiat strada custom                       NA        NA
## acceleration:namefiat x1.9                                NA        NA
## acceleration:nameford country                             NA        NA
## acceleration:nameford country squire (sw)                 NA        NA
## acceleration:nameford escort 2h                           NA        NA
## acceleration:nameford escort 4w                           NA        NA
## acceleration:nameford f108                                NA        NA
## acceleration:nameford f250                                NA        NA
## acceleration:nameford fairmont                            NA        NA
## acceleration:nameford fairmont (auto)                     NA        NA
## acceleration:nameford fairmont (man)                      NA        NA
## acceleration:nameford fairmont 4                          NA        NA
## acceleration:nameford fairmont futura                     NA        NA
## acceleration:nameford fiesta                              NA        NA
## acceleration:nameford futura                              NA        NA
## acceleration:nameford galaxie 500                         NA        NA
## acceleration:nameford gran torino                         NA        NA
## acceleration:nameford gran torino (sw)                    NA        NA
## acceleration:nameford granada                             NA        NA
## acceleration:nameford granada ghia                        NA        NA
## acceleration:nameford granada gl                          NA        NA
## acceleration:nameford granada l                           NA        NA
## acceleration:nameford ltd                                 NA        NA
## acceleration:nameford ltd landau                          NA        NA
## acceleration:nameford maverick                            NA        NA
## acceleration:nameford mustang                             NA        NA
## acceleration:nameford mustang gl                          NA        NA
## acceleration:nameford mustang ii                          NA        NA
## acceleration:nameford mustang ii 2+2                      NA        NA
## acceleration:nameford pinto                               NA        NA
## acceleration:nameford pinto (sw)                          NA        NA
## acceleration:nameford pinto runabout                      NA        NA
## acceleration:nameford ranger                              NA        NA
## acceleration:nameford thunderbird                         NA        NA
## acceleration:nameford torino                              NA        NA
## acceleration:nameford torino 500                          NA        NA
## acceleration:namehi 1200d                                 NA        NA
## acceleration:namehonda accord                             NA        NA
## acceleration:namehonda accord cvcc                        NA        NA
## acceleration:namehonda accord lx                          NA        NA
## acceleration:namehonda civic                              NA        NA
## acceleration:namehonda civic (auto)                       NA        NA
## acceleration:namehonda civic 1300                         NA        NA
## acceleration:namehonda civic 1500 gl                      NA        NA
## acceleration:namehonda civic cvcc                         NA        NA
## acceleration:namehonda prelude                            NA        NA
## acceleration:namemaxda glc deluxe                         NA        NA
## acceleration:namemaxda rx3                                NA        NA
## acceleration:namemazda 626                                NA        NA
## acceleration:namemazda glc                                NA        NA
## acceleration:namemazda glc 4                              NA        NA
```

```
## acceleration:namemazda glc custom                          NA          NA
## acceleration:namemazda glc custom l                        NA          NA
## acceleration:namemazda glc deluxe                          NA          NA
## acceleration:namemazda rx-4                                NA          NA
## acceleration:namemazda rx-7 gs                             NA          NA
## acceleration:namemazda rx2 coupe                           NA          NA
## acceleration:namemercedes benz 300d                        NA          NA
## acceleration:namemercedes-benz 240d                        NA          NA
## acceleration:namemercedes-benz 280s                        NA          NA
## acceleration:namemercury capri 2000                        NA          NA
## acceleration:namemercury capri v6                          NA          NA
## acceleration:namemercury cougar brougham                   NA          NA
## acceleration:namemercury grand marquis                     NA          NA
## acceleration:namemercury lynx l                            NA          NA
## acceleration:namemercury marquis                           NA          NA
## acceleration:namemercury marquis brougham                  NA          NA
## acceleration:namemercury monarch                           NA          NA
## acceleration:namemercury monarch ghia                      NA          NA
## acceleration:namemercury zephyr                            NA          NA
## acceleration:namemercury zephyr 6                          NA          NA
## acceleration:namenissan stanza xe                          NA          NA
## acceleration:nameoldsmobile cutlass ciera (diesel)         NA          NA
## acceleration:nameoldsmobile cutlass ls                     NA          NA
## acceleration:nameoldsmobile cutlass salon brougham         NA          NA
## acceleration:nameoldsmobile cutlass supreme                NA          NA
## acceleration:nameoldsmobile delta 88 royale                NA          NA
## acceleration:nameoldsmobile omega                          NA          NA
## acceleration:nameoldsmobile omega brougham                 NA          NA
## acceleration:nameoldsmobile starfire sx                    NA          NA
## acceleration:nameoldsmobile vista cruiser                  NA          NA
## acceleration:nameopel 1900                                 NA          NA
## acceleration:nameopel manta                                NA          NA
## acceleration:namepeugeot 304                               NA          NA
## acceleration:namepeugeot 504                               NA          NA
## acceleration:namepeugeot 504 (sw)                          NA          NA
## acceleration:namepeugeot 505s turbo diesel                 NA          NA
## acceleration:namepeugeot 604sl                             NA          NA
## acceleration:nameplymouth 'cuda 340                        NA          NA
## acceleration:nameplymouth arrow gs                         NA          NA
## acceleration:nameplymouth champ                            NA          NA
## acceleration:nameplymouth cricket                          NA          NA
## acceleration:nameplymouth custom suburb                    NA          NA
## acceleration:nameplymouth duster                           NA          NA
## acceleration:nameplymouth fury                             NA          NA
## acceleration:nameplymouth fury gran sedan                  NA          NA
## acceleration:nameplymouth fury iii                         NA          NA
## acceleration:nameplymouth grand fury                       NA          NA
## acceleration:nameplymouth horizon                          NA          NA
## acceleration:nameplymouth horizon 4                        NA          NA
## acceleration:nameplymouth horizon miser                    NA          NA
## acceleration:nameplymouth horizon tc3                      NA          NA
## acceleration:nameplymouth reliant                          NA          NA
## acceleration:nameplymouth sapporo                          NA          NA
## acceleration:nameplymouth satellite                        NA          NA
## acceleration:nameplymouth satellite custom                 NA          NA
## acceleration:nameplymouth satellite custom (sw)            NA          NA
## acceleration:nameplymouth satellite sebring                NA          NA
## acceleration:nameplymouth valiant                          NA          NA
## acceleration:nameplymouth valiant custom                   NA          NA
## acceleration:nameplymouth volare                           NA          NA
## acceleration:nameplymouth volare custom                    NA          NA
## acceleration:nameplymouth volare premier v8                NA          NA
## acceleration:namepontiac astro                             NA          NA
## acceleration:namepontiac catalina                          NA          NA
## acceleration:namepontiac catalina brougham                 NA          NA
## acceleration:namepontiac firebird                          NA          NA
## acceleration:namepontiac grand prix                        NA          NA
## acceleration:namepontiac grand prix lj                     NA          NA
## acceleration:namepontiac j2000 se hatchback                NA          NA
## acceleration:namepontiac lemans v6                         NA          NA
## acceleration:namepontiac phoenix                           NA          NA
## acceleration:namepontiac phoenix lj                        NA          NA
## acceleration:namepontiac safari (sw)                       NA          NA
## acceleration:namepontiac sunbird coupe                     NA          NA
## acceleration:namepontiac ventura sj                        NA          NA
## acceleration:namerenault 12 (sw)                           NA          NA
```

```
## acceleration:namerenault 12tl                              NA         NA
## acceleration:namerenault 5 gtl                             NA         NA
## acceleration:namesaab 99e                                  NA         NA
## acceleration:namesaab 99gle                                NA         NA
## acceleration:namesaab 99le                                 NA         NA
## acceleration:namesubaru                                    NA         NA
## acceleration:namesubaru dl                                 NA         NA
## acceleration:nametoyota carina                             NA         NA
## acceleration:nametoyota celica gt                          NA         NA
## acceleration:nametoyota celica gt liftback                 NA         NA
## acceleration:nametoyota corolla                            NA         NA
## acceleration:nametoyota corolla 1200                       NA         NA
## acceleration:nametoyota corolla 1600 (sw)                  NA         NA
## acceleration:nametoyota corolla liftback                   NA         NA
## acceleration:nametoyota corolla tercel                     NA         NA
## acceleration:nametoyota corona                             NA         NA
## acceleration:nametoyota corona hardtop                     NA         NA
## acceleration:nametoyota corona liftback                    NA         NA
## acceleration:nametoyota corona mark ii                     NA         NA
## acceleration:nametoyota cressida                           NA         NA
## acceleration:nametoyota mark ii                            NA         NA
## acceleration:nametoyota starlet                            NA         NA
## acceleration:nametoyota tercel                             NA         NA
## acceleration:nametoyouta corona mark ii (sw)               NA         NA
## acceleration:nametriumph tr7 coupe                         NA         NA
## acceleration:namevokswagen rabbit                          NA         NA
## acceleration:namevolkswagen 1131 deluxe sedan              NA         NA
## acceleration:namevolkswagen 411 (sw)                       NA         NA
## acceleration:namevolkswagen dasher                         NA         NA
## acceleration:namevolkswagen jetta                          NA         NA
## acceleration:namevolkswagen model 111                      NA         NA
## acceleration:namevolkswagen rabbit                         NA         NA
## acceleration:namevolkswagen rabbit custom                  NA         NA
## acceleration:namevolkswagen rabbit custom diesel           NA         NA
## acceleration:namevolkswagen rabbit l                       NA         NA
## acceleration:namevolkswagen scirocco                       NA         NA
## acceleration:namevolkswagen super beetle                   NA         NA
## acceleration:namevolkswagen type 3                         NA         NA
## acceleration:namevolvo 144ea                               NA         NA
## acceleration:namevolvo 145e (sw)                           NA         NA
## acceleration:namevolvo 244dl                               NA         NA
## acceleration:namevolvo 245                                 NA         NA
## acceleration:namevolvo 264gl                               NA         NA
## acceleration:namevolvo diesel                              NA         NA
## acceleration:namevw dasher (diesel)                        NA         NA
## acceleration:namevw pickup                                 NA         NA
## acceleration:namevw rabbit                                 NA         NA
## acceleration:namevw rabbit c (diesel)                      NA         NA
## acceleration:namevw rabbit custom                          NA         NA
## year:origin                                                NA         NA
## year:nameamc ambassador dpl                                NA         NA
## year:nameamc ambassador sst                                NA         NA
## year:nameamc concord                                       NA         NA
## year:nameamc concord d/l                                   NA         NA
## year:nameamc concord dl 6                                  NA         NA
## year:nameamc gremlin                                       NA         NA
## year:nameamc hornet                                        NA         NA
## year:nameamc hornet sportabout (sw)                        NA         NA
## year:nameamc matador                                       NA         NA
## year:nameamc matador (sw)                                  NA         NA
## year:nameamc pacer                                         NA         NA
## year:nameamc pacer d/l                                     NA         NA
## year:nameamc rebel sst                                     NA         NA
## year:nameamc spirit dl                                     NA         NA
## year:nameaudi 100 ls                                       NA         NA
## year:nameaudi 100ls                                        NA         NA
## year:nameaudi 4000                                         NA         NA
## year:nameaudi 5000                                         NA         NA
## year:nameaudi 5000s (diesel)                               NA         NA
## year:nameaudi fox                                          NA         NA
## year:namebmw 2002                                          NA         NA
## year:namebmw 320i                                          NA         NA
## year:namebuick century                                     NA         NA
## year:namebuick century 350                                 NA         NA
## year:namebuick century limited                             NA         NA
## year:namebuick century luxus (sw)                          NA         NA
```

```
## year:namebuick century special                          NA        NA
## year:namebuick electra 225 custom                       NA        NA
## year:namebuick estate wagon (sw)                        NA        NA
## year:namebuick lesabre custom                           NA        NA
## year:namebuick opel isuzu deluxe                        NA        NA
## year:namebuick regal sport coupe (turbo)                NA        NA
## year:namebuick skyhawk                                  NA        NA
## year:namebuick skylark                                  NA        NA
## year:namebuick skylark 320                              NA        NA
## year:namebuick skylark limited                          NA        NA
## year:namecadillac eldorado                              NA        NA
## year:namecadillac seville                               NA        NA
## year:namecapri ii                                       NA        NA
## year:namechevroelt chevelle malibu                      NA        NA
## year:namechevrolet bel air                              NA        NA
## year:namechevrolet camaro                               NA        NA
## year:namechevrolet caprice classic                      NA        NA
## year:namechevrolet cavalier                             NA        NA
## year:namechevrolet cavalier 2-door                      NA        NA
## year:namechevrolet cavalier wagon                       NA        NA
## year:namechevrolet chevelle concours (sw)               NA        NA
## year:namechevrolet chevelle malibu                      NA        NA
## year:namechevrolet chevelle malibu classic              NA        NA
## year:namechevrolet chevette                             NA        NA
## year:namechevrolet citation                             NA        NA
## year:namechevrolet concours                             NA        NA
## year:namechevrolet impala                               NA        NA
## year:namechevrolet malibu                               NA        NA
## year:namechevrolet malibu classic (sw)                  NA        NA
## year:namechevrolet monte carlo                          NA        NA
## year:namechevrolet monte carlo landau                   NA        NA
## year:namechevrolet monte carlo s                        NA        NA
## year:namechevrolet monza 2+2                            NA        NA
## year:namechevrolet nova                                 NA        NA
## year:namechevrolet nova custom                          NA        NA
## year:namechevrolet vega                                 NA        NA
## year:namechevrolet vega (sw)                            NA        NA
## year:namechevrolet vega 2300                            NA        NA
## year:namechevrolet woody                                NA        NA
## year:namechevy c10                                      NA        NA
## year:namechevy c20                                      NA        NA
## year:namechevy s-10                                     NA        NA
## year:namechrysler cordoba                               NA        NA
## year:namechrysler lebaron medallion                     NA        NA
## year:namechrysler lebaron salon                         NA        NA
## year:namechrysler lebaron town @ country (sw)           NA        NA
## year:namechrysler new yorker brougham                   NA        NA
## year:namechrysler newport royal                         NA        NA
## year:namedatsun 1200                                    NA        NA
## year:namedatsun 200-sx                                  NA        NA
## year:namedatsun 200sx                                   NA        NA
## year:namedatsun 210                                     NA        NA
## year:namedatsun 210 mpg                                 NA        NA
## year:namedatsun 280-zx                                  NA        NA
## year:namedatsun 310                                     NA        NA
## year:namedatsun 310 gx                                  NA        NA
## year:namedatsun 510                                     NA        NA
## year:namedatsun 510 (sw)                                NA        NA
## year:namedatsun 510 hatchback                           NA        NA
## year:namedatsun 610                                     NA        NA
## year:namedatsun 710                                     NA        NA
## year:namedatsun 810                                     NA        NA
## year:namedatsun 810 maxima                              NA        NA
## year:namedatsun b-210                                   NA        NA
## year:namedatsun b210                                    NA        NA
## year:namedatsun b210 gx                                 NA        NA
## year:namedatsun f-10 hatchback                          NA        NA
## year:namedatsun pl510                                   NA        NA
## year:namedodge aries se                                 NA        NA
## year:namedodge aries wagon (sw)                         NA        NA
## year:namedodge aspen                                    NA        NA
## year:namedodge aspen 6                                  NA        NA
## year:namedodge aspen se                                 NA        NA
## year:namedodge challenger se                            NA        NA
## year:namedodge charger 2.2                              NA        NA
## year:namedodge colt                                     NA        NA
```

```
## year:namedodge colt (sw)                          NA        NA
## year:namedodge colt hardtop                        NA        NA
## year:namedodge colt hatchback custom              NA        NA
## year:namedodge colt m/m                            NA        NA
## year:namedodge coronet brougham                   NA        NA
## year:namedodge coronet custom                     NA        NA
## year:namedodge coronet custom (sw)                NA        NA
## year:namedodge d100                                NA        NA
## year:namedodge d200                                NA        NA
## year:namedodge dart custom                         NA        NA
## year:namedodge diplomat                            NA        NA
## year:namedodge magnum xe                           NA        NA
## year:namedodge monaco (sw)                         NA        NA
## year:namedodge monaco brougham                     NA        NA
## year:namedodge omni                                NA        NA
## year:namedodge rampage                             NA        NA
## year:namedodge st. regis                           NA        NA
## year:namefiat 124 sport coupe                      NA        NA
## year:namefiat 124 tc                               NA        NA
## year:namefiat 124b                                 NA        NA
## year:namefiat 128                                  NA        NA
## year:namefiat 131                                  NA        NA
## year:namefiat strada custom                        NA        NA
## year:namefiat x1.9                                 NA        NA
## year:nameford country                              NA        NA
## year:nameford country squire (sw)                 NA        NA
## year:nameford escort 2h                            NA        NA
## year:nameford escort 4w                            NA        NA
## year:nameford f108                                 NA        NA
## year:nameford f250                                 NA        NA
## year:nameford fairmont                             NA        NA
## year:nameford fairmont (auto)                      NA        NA
## year:nameford fairmont (man)                       NA        NA
## year:nameford fairmont 4                           NA        NA
## year:nameford fairmont futura                      NA        NA
## year:nameford fiesta                               NA        NA
## year:nameford futura                               NA        NA
## year:nameford galaxie 500                          NA        NA
## year:nameford gran torino                          NA        NA
## year:nameford gran torino (sw)                     NA        NA
## year:nameford granada                              NA        NA
## year:nameford granada ghia                         NA        NA
## year:nameford granada gl                           NA        NA
## year:nameford granada l                            NA        NA
## year:nameford ltd                                  NA        NA
## year:nameford ltd landau                           NA        NA
## year:nameford maverick                             NA        NA
## year:nameford mustang                              NA        NA
## year:nameford mustang gl                           NA        NA
## year:nameford mustang ii                           NA        NA
## year:nameford mustang ii 2+2                       NA        NA
## year:nameford pinto                                NA        NA
## year:nameford pinto (sw)                           NA        NA
## year:nameford pinto runabout                       NA        NA
## year:nameford ranger                               NA        NA
## year:nameford thunderbird                          NA        NA
## year:nameford torino                               NA        NA
## year:nameford torino 500                           NA        NA
## year:namehi 1200d                                  NA        NA
## year:namehonda accord                              NA        NA
## year:namehonda accord cvcc                         NA        NA
## year:namehonda accord lx                           NA        NA
## year:namehonda civic                               NA        NA
## year:namehonda civic (auto)                        NA        NA
## year:namehonda civic 1300                          NA        NA
## year:namehonda civic 1500 gl                       NA        NA
## year:namehonda civic cvcc                          NA        NA
## year:namehonda prelude                             NA        NA
## year:namemaxda glc deluxe                          NA        NA
## year:namemaxda rx3                                 NA        NA
## year:namemazda 626                                 NA        NA
## year:namemazda glc                                 NA        NA
## year:namemazda glc 4                               NA        NA
## year:namemazda glc custom                          NA        NA
## year:namemazda glc custom l                        NA        NA
## year:namemazda glc deluxe                          NA        NA
```

```
## year:namemazda rx-4                                    NA        NA
## year:namemazda rx-7 gs                                 NA        NA
## year:namemazda rx2 coupe                               NA        NA
## year:namemercedes benz 300d                            NA        NA
## year:namemercedes-benz 240d                            NA        NA
## year:namemercedes-benz 280s                            NA        NA
## year:namemercury capri 2000                            NA        NA
## year:namemercury capri v6                              NA        NA
## year:namemercury cougar brougham                       NA        NA
## year:namemercury grand marquis                         NA        NA
## year:namemercury lynx l                                NA        NA
## year:namemercury marquis                               NA        NA
## year:namemercury marquis brougham                      NA        NA
## year:namemercury monarch                               NA        NA
## year:namemercury monarch ghia                          NA        NA
## year:namemercury zephyr                                NA        NA
## year:namemercury zephyr 6                              NA        NA
## year:namenissan stanza xe                              NA        NA
## year:nameoldsmobile cutlass ciera (diesel)             NA        NA
## year:nameoldsmobile cutlass ls                         NA        NA
## year:nameoldsmobile cutlass salon brougham             NA        NA
## year:nameoldsmobile cutlass supreme                    NA        NA
## year:nameoldsmobile delta 88 royale                    NA        NA
## year:nameoldsmobile omega                              NA        NA
## year:nameoldsmobile omega brougham                     NA        NA
## year:nameoldsmobile starfire sx                        NA        NA
## year:nameoldsmobile vista cruiser                      NA        NA
## year:nameopel 1900                                     NA        NA
## year:nameopel manta                                    NA        NA
## year:namepeugeot 304                                   NA        NA
## year:namepeugeot 504                                   NA        NA
## year:namepeugeot 504 (sw)                              NA        NA
## year:namepeugeot 505s turbo diesel                     NA        NA
## year:namepeugeot 604sl                                 NA        NA
## year:nameplymouth 'cuda 340                            NA        NA
## year:nameplymouth arrow gs                             NA        NA
## year:nameplymouth champ                                NA        NA
## year:nameplymouth cricket                              NA        NA
## year:nameplymouth custom suburb                        NA        NA
## year:nameplymouth duster                               NA        NA
## year:nameplymouth fury                                 NA        NA
## year:nameplymouth fury gran sedan                      NA        NA
## year:nameplymouth fury iii                             NA        NA
## year:nameplymouth grand fury                           NA        NA
## year:nameplymouth horizon                              NA        NA
## year:nameplymouth horizon 4                            NA        NA
## year:nameplymouth horizon miser                        NA        NA
## year:nameplymouth horizon tc3                          NA        NA
## year:nameplymouth reliant                              NA        NA
## year:nameplymouth sapporo                              NA        NA
## year:nameplymouth satellite                            NA        NA
## year:nameplymouth satellite custom                     NA        NA
## year:nameplymouth satellite custom (sw)                NA        NA
## year:nameplymouth satellite sebring                    NA        NA
## year:nameplymouth valiant                              NA        NA
## year:nameplymouth valiant custom                       NA        NA
## year:nameplymouth volare                               NA        NA
## year:nameplymouth volare custom                        NA        NA
## year:nameplymouth volare premier v8                    NA        NA
## year:namepontiac astro                                 NA        NA
## year:namepontiac catalina                              NA        NA
## year:namepontiac catalina brougham                     NA        NA
## year:namepontiac firebird                              NA        NA
## year:namepontiac grand prix                            NA        NA
## year:namepontiac grand prix lj                         NA        NA
## year:namepontiac j2000 se hatchback                    NA        NA
## year:namepontiac lemans v6                             NA        NA
## year:namepontiac phoenix                               NA        NA
## year:namepontiac phoenix lj                            NA        NA
## year:namepontiac safari (sw)                           NA        NA
## year:namepontiac sunbird coupe                         NA        NA
## year:namepontiac ventura sj                            NA        NA
## year:namerenault 12 (sw)                               NA        NA
## year:namerenault 12tl                                  NA        NA
## year:namerenault 5 gtl                                 NA        NA
## year:namesaab 99e                                      NA        NA
```

```
## year:namesaab 99gle                              NA          NA
## year:namesaab 99le                               NA          NA
## year:namesubaru                                  NA          NA
## year:namesubaru dl                               NA          NA
## year:nametoyota carina                           NA          NA
## year:nametoyota celica gt                        NA          NA
## year:nametoyota celica gt liftback               NA          NA
## year:nametoyota corolla                          NA          NA
## year:nametoyota corolla 1200                     NA          NA
## year:nametoyota corolla 1600 (sw)                NA          NA
## year:nametoyota corolla liftback                 NA          NA
## year:nametoyota corolla tercel                   NA          NA
## year:nametoyota corona                           NA          NA
## year:nametoyota corona hardtop                   NA          NA
## year:nametoyota corona liftback                  NA          NA
## year:nametoyota corona mark ii                   NA          NA
## year:nametoyota cressida                         NA          NA
## year:nametoyota mark ii                          NA          NA
## year:nametoyota starlet                          NA          NA
## year:nametoyota tercel                           NA          NA
## year:nametoyouta corona mark ii (sw)             NA          NA
## year:nametriumph tr7 coupe                       NA          NA
## year:namevokswagen rabbit                        NA          NA
## year:namevolkswagen 1131 deluxe sedan            NA          NA
## year:namevolkswagen 411 (sw)                     NA          NA
## year:namevolkswagen dasher                       NA          NA
## year:namevolkswagen jetta                        NA          NA
## year:namevolkswagen model 111                    NA          NA
## year:namevolkswagen rabbit                       NA          NA
## year:namevolkswagen rabbit custom                NA          NA
## year:namevolkswagen rabbit custom diesel         NA          NA
## year:namevolkswagen rabbit l                     NA          NA
## year:namevolkswagen scirocco                     NA          NA
## year:namevolkswagen super beetle                 NA          NA
## year:namevolkswagen type 3                       NA          NA
## year:namevolvo 144ea                             NA          NA
## year:namevolvo 145e (sw)                         NA          NA
## year:namevolvo 244dl                             NA          NA
## year:namevolvo 245                               NA          NA
## year:namevolvo 264gl                             NA          NA
## year:namevolvo diesel                            NA          NA
## year:namevw dasher (diesel)                      NA          NA
## year:namevw pickup                               NA          NA
## year:namevw rabbit                               NA          NA
## year:namevw rabbit c (diesel)                    NA          NA
## year:namevw rabbit custom                        NA          NA
## origin:nameamc ambassador dpl                    NA          NA
## origin:nameamc ambassador sst                    NA          NA
## origin:nameamc concord                           NA          NA
## origin:nameamc concord d/l                       NA          NA
## origin:nameamc concord dl 6                      NA          NA
## origin:nameamc gremlin                           NA          NA
## origin:nameamc hornet                            NA          NA
## origin:nameamc hornet sportabout (sw)            NA          NA
## origin:nameamc matador                           NA          NA
## origin:nameamc matador (sw)                      NA          NA
## origin:nameamc pacer                             NA          NA
## origin:nameamc pacer d/l                         NA          NA
## origin:nameamc rebel sst                         NA          NA
## origin:nameamc spirit dl                         NA          NA
## origin:nameaudi 100 ls                           NA          NA
## origin:nameaudi 100ls                            NA          NA
## origin:nameaudi 4000                             NA          NA
## origin:nameaudi 5000                             NA          NA
## origin:nameaudi 5000s (diesel)                   NA          NA
## origin:nameaudi fox                              NA          NA
## origin:namebmw 2002                              NA          NA
## origin:namebmw 320i                              NA          NA
## origin:namebuick century                         NA          NA
## origin:namebuick century 350                     NA          NA
## origin:namebuick century limited                 NA          NA
## origin:namebuick century luxus (sw)              NA          NA
## origin:namebuick century special                 NA          NA
## origin:namebuick electra 225 custom              NA          NA
## origin:namebuick estate wagon (sw)               NA          NA
## origin:namebuick lesabre custom                  NA          NA
```

```
## origin:namebuick opel isuzu deluxe                          NA      NA
## origin:namebuick regal sport coupe (turbo)                  NA      NA
## origin:namebuick skyhawk                                     NA      NA
## origin:namebuick skylark                                     NA      NA
## origin:namebuick skylark 320                                 NA      NA
## origin:namebuick skylark limited                            NA      NA
## origin:namecadillac eldorado                                 NA      NA
## origin:namecadillac seville                                  NA      NA
## origin:namecapri ii                                          NA      NA
## origin:namechevroelt chevelle malibu                         NA      NA
## origin:namechevrolet bel air                                 NA      NA
## origin:namechevrolet camaro                                  NA      NA
## origin:namechevrolet caprice classic                         NA      NA
## origin:namechevrolet cavalier                                NA      NA
## origin:namechevrolet cavalier 2-door                         NA      NA
## origin:namechevrolet cavalier wagon                          NA      NA
## origin:namechevrolet chevelle concours (sw)                  NA      NA
## origin:namechevrolet chevelle malibu                         NA      NA
## origin:namechevrolet chevelle malibu classic                 NA      NA
## origin:namechevrolet chevette                                NA      NA
## origin:namechevrolet citation                                NA      NA
## origin:namechevrolet concours                                NA      NA
## origin:namechevrolet impala                                  NA      NA
## origin:namechevrolet malibu                                  NA      NA
## origin:namechevrolet malibu classic (sw)                     NA      NA
## origin:namechevrolet monte carlo                             NA      NA
## origin:namechevrolet monte carlo landau                      NA      NA
## origin:namechevrolet monte carlo s                           NA      NA
## origin:namechevrolet monza 2+2                               NA      NA
## origin:namechevrolet nova                                    NA      NA
## origin:namechevrolet nova custom                             NA      NA
## origin:namechevrolet vega                                    NA      NA
## origin:namechevrolet vega (sw)                               NA      NA
## origin:namechevrolet vega 2300                               NA      NA
## origin:namechevrolet woody                                   NA      NA
## origin:namechevy c10                                         NA      NA
## origin:namechevy c20                                         NA      NA
## origin:namechevy s-10                                        NA      NA
## origin:namechrysler cordoba                                  NA      NA
## origin:namechrysler lebaron medallion                        NA      NA
## origin:namechrysler lebaron salon                            NA      NA
## origin:namechrysler lebaron town @ country (sw)              NA      NA
## origin:namechrysler new yorker brougham                      NA      NA
## origin:namechrysler newport royal                            NA      NA
## origin:namedatsun 1200                                       NA      NA
## origin:namedatsun 200-sx                                     NA      NA
## origin:namedatsun 200sx                                      NA      NA
## origin:namedatsun 210                                        NA      NA
## origin:namedatsun 210 mpg                                    NA      NA
## origin:namedatsun 280-zx                                     NA      NA
## origin:namedatsun 310                                        NA      NA
## origin:namedatsun 310 gx                                     NA      NA
## origin:namedatsun 510                                        NA      NA
## origin:namedatsun 510 (sw)                                   NA      NA
## origin:namedatsun 510 hatchback                              NA      NA
## origin:namedatsun 610                                        NA      NA
## origin:namedatsun 710                                        NA      NA
## origin:namedatsun 810                                        NA      NA
## origin:namedatsun 810 maxima                                 NA      NA
## origin:namedatsun b-210                                      NA      NA
## origin:namedatsun b210                                       NA      NA
## origin:namedatsun b210 gx                                    NA      NA
## origin:namedatsun f-10 hatchback                             NA      NA
## origin:namedatsun pl510                                      NA      NA
## origin:namedodge aries se                                    NA      NA
## origin:namedodge aries wagon (sw)                            NA      NA
## origin:namedodge aspen                                       NA      NA
## origin:namedodge aspen 6                                     NA      NA
## origin:namedodge aspen se                                    NA      NA
## origin:namedodge challenger se                               NA      NA
## origin:namedodge charger 2.2                                 NA      NA
## origin:namedodge colt                                        NA      NA
## origin:namedodge colt (sw)                                   NA      NA
## origin:namedodge colt hardtop                                NA      NA
## origin:namedodge colt hatchback custom                       NA      NA
## origin:namedodge colt m/m                                    NA      NA
```

```
## origin:namedodge coronet brougham              NA        NA
## origin:namedodge coronet custom                NA        NA
## origin:namedodge coronet custom (sw)           NA        NA
## origin:namedodge d100                          NA        NA
## origin:namedodge d200                          NA        NA
## origin:namedodge dart custom                   NA        NA
## origin:namedodge diplomat                      NA        NA
## origin:namedodge magnum xe                     NA        NA
## origin:namedodge monaco (sw)                   NA        NA
## origin:namedodge monaco brougham               NA        NA
## origin:namedodge omni                          NA        NA
## origin:namedodge rampage                       NA        NA
## origin:namedodge st. regis                     NA        NA
## origin:namefiat 124 sport coupe                NA        NA
## origin:namefiat 124 tc                         NA        NA
## origin:namefiat 124b                           NA        NA
## origin:namefiat 128                            NA        NA
## origin:namefiat 131                            NA        NA
## origin:namefiat strada custom                  NA        NA
## origin:namefiat x1.9                           NA        NA
## origin:nameford country                        NA        NA
## origin:nameford country squire (sw)            NA        NA
## origin:nameford escort 2h                      NA        NA
## origin:nameford escort 4w                      NA        NA
## origin:nameford f108                           NA        NA
## origin:nameford f250                           NA        NA
## origin:nameford fairmont                       NA        NA
## origin:nameford fairmont (auto)                NA        NA
## origin:nameford fairmont (man)                 NA        NA
## origin:nameford fairmont 4                     NA        NA
## origin:nameford fairmont futura                NA        NA
## origin:nameford fiesta                         NA        NA
## origin:nameford futura                         NA        NA
## origin:nameford galaxie 500                    NA        NA
## origin:nameford gran torino                    NA        NA
## origin:nameford gran torino (sw)               NA        NA
## origin:nameford granada                        NA        NA
## origin:nameford granada ghia                   NA        NA
## origin:nameford granada gl                     NA        NA
## origin:nameford granada l                      NA        NA
## origin:nameford ltd                            NA        NA
## origin:nameford ltd landau                     NA        NA
## origin:nameford maverick                       NA        NA
## origin:nameford mustang                        NA        NA
## origin:nameford mustang gl                     NA        NA
## origin:nameford mustang ii                     NA        NA
## origin:nameford mustang ii 2+2                 NA        NA
## origin:nameford pinto                          NA        NA
## origin:nameford pinto (sw)                     NA        NA
## origin:nameford pinto runabout                 NA        NA
## origin:nameford ranger                         NA        NA
## origin:nameford thunderbird                    NA        NA
## origin:nameford torino                         NA        NA
## origin:nameford torino 500                     NA        NA
## origin:namehi 1200d                            NA        NA
## origin:namehonda accord                        NA        NA
## origin:namehonda accord cvcc                   NA        NA
## origin:namehonda accord lx                     NA        NA
## origin:namehonda civic                         NA        NA
## origin:namehonda civic (auto)                  NA        NA
## origin:namehonda civic 1300                    NA        NA
## origin:namehonda civic 1500 gl                 NA        NA
## origin:namehonda civic cvcc                    NA        NA
## origin:namehonda prelude                       NA        NA
## origin:namemaxda glc deluxe                    NA        NA
## origin:namemaxda rx3                           NA        NA
## origin:namemazda 626                           NA        NA
## origin:namemazda glc                           NA        NA
## origin:namemazda glc 4                         NA        NA
## origin:namemazda glc custom                    NA        NA
## origin:namemazda glc custom l                  NA        NA
## origin:namemazda glc deluxe                    NA        NA
## origin:namemazda rx-4                          NA        NA
## origin:namemazda rx-7 gs                       NA        NA
## origin:namemazda rx2 coupe                     NA        NA
## origin:namemercedes benz 300d                  NA        NA
```

```
## origin:namemercedes-benz 240d                              NA          NA
## origin:namemercedes-benz 280s                              NA          NA
## origin:namemercury capri 2000                              NA          NA
## origin:namemercury capri v6                                NA          NA
## origin:namemercury cougar brougham                         NA          NA
## origin:namemercury grand marquis                           NA          NA
## origin:namemercury lynx l                                  NA          NA
## origin:namemercury marquis                                 NA          NA
## origin:namemercury marquis brougham                        NA          NA
## origin:namemercury monarch                                 NA          NA
## origin:namemercury monarch ghia                            NA          NA
## origin:namemercury zephyr                                  NA          NA
## origin:namemercury zephyr 6                                NA          NA
## origin:namenissan stanza xe                                NA          NA
## origin:nameoldsmobile cutlass ciera (diesel)               NA          NA
## origin:nameoldsmobile cutlass ls                           NA          NA
## origin:nameoldsmobile cutlass salon brougham               NA          NA
## origin:nameoldsmobile cutlass supreme                      NA          NA
## origin:nameoldsmobile delta 88 royale                      NA          NA
## origin:nameoldsmobile omega                                NA          NA
## origin:nameoldsmobile omega brougham                       NA          NA
## origin:nameoldsmobile starfire sx                          NA          NA
## origin:nameoldsmobile vista cruiser                        NA          NA
## origin:nameopel 1900                                       NA          NA
## origin:nameopel manta                                      NA          NA
## origin:namepeugeot 304                                     NA          NA
## origin:namepeugeot 504                                     NA          NA
## origin:namepeugeot 504 (sw)                                NA          NA
## origin:namepeugeot 505s turbo diesel                       NA          NA
## origin:namepeugeot 604sl                                   NA          NA
## origin:nameplymouth 'cuda 340                              NA          NA
## origin:nameplymouth arrow gs                               NA          NA
## origin:nameplymouth champ                                  NA          NA
## origin:nameplymouth cricket                                NA          NA
## origin:nameplymouth custom suburb                          NA          NA
## origin:nameplymouth duster                                 NA          NA
## origin:nameplymouth fury                                   NA          NA
## origin:nameplymouth fury gran sedan                        NA          NA
## origin:nameplymouth fury iii                               NA          NA
## origin:nameplymouth grand fury                             NA          NA
## origin:nameplymouth horizon                                NA          NA
## origin:nameplymouth horizon 4                              NA          NA
## origin:nameplymouth horizon miser                          NA          NA
## origin:nameplymouth horizon tc3                            NA          NA
## origin:nameplymouth reliant                                NA          NA
## origin:nameplymouth sapporo                                NA          NA
## origin:nameplymouth satellite                              NA          NA
## origin:nameplymouth satellite custom                       NA          NA
## origin:nameplymouth satellite custom (sw)                  NA          NA
## origin:nameplymouth satellite sebring                      NA          NA
## origin:nameplymouth valiant                                NA          NA
## origin:nameplymouth valiant custom                         NA          NA
## origin:nameplymouth volare                                 NA          NA
## origin:nameplymouth volare custom                          NA          NA
## origin:nameplymouth volare premier v8                      NA          NA
## origin:namepontiac astro                                   NA          NA
## origin:namepontiac catalina                                NA          NA
## origin:namepontiac catalina brougham                       NA          NA
## origin:namepontiac firebird                                NA          NA
## origin:namepontiac grand prix                              NA          NA
## origin:namepontiac grand prix lj                           NA          NA
## origin:namepontiac j2000 se hatchback                      NA          NA
## origin:namepontiac lemans v6                               NA          NA
## origin:namepontiac phoenix                                 NA          NA
## origin:namepontiac phoenix lj                              NA          NA
## origin:namepontiac safari (sw)                             NA          NA
## origin:namepontiac sunbird coupe                           NA          NA
## origin:namepontiac ventura sj                              NA          NA
## origin:namerenault 12 (sw)                                 NA          NA
## origin:namerenault 12tl                                    NA          NA
## origin:namerenault 5 gtl                                   NA          NA
## origin:namesaab 99e                                        NA          NA
## origin:namesaab 99gle                                      NA          NA
## origin:namesaab 99le                                       NA          NA
## origin:namesubaru                                          NA          NA
## origin:namesubaru dl                                       NA          NA
```

```
## origin:nametoyota carina                                         NA        NA
## origin:nametoyota celica gt                                      NA        NA
## origin:nametoyota celica gt liftback                             NA        NA
## origin:nametoyota corolla                                        NA        NA
## origin:nametoyota corolla 1200                                   NA        NA
## origin:nametoyota corolla 1600 (sw)                              NA        NA
## origin:nametoyota corolla liftback                               NA        NA
## origin:nametoyota corolla tercel                                 NA        NA
## origin:nametoyota corona                                         NA        NA
## origin:nametoyota corona hardtop                                 NA        NA
## origin:nametoyota corona liftback                                NA        NA
## origin:nametoyota corona mark ii                                 NA        NA
## origin:nametoyota cressida                                       NA        NA
## origin:nametoyota mark ii                                        NA        NA
## origin:nametoyota starlet                                        NA        NA
## origin:nametoyota tercel                                         NA        NA
## origin:nametoyouta corona mark ii (sw)                           NA        NA
## origin:nametriumph tr7 coupe                                     NA        NA
## origin:namevokswagen rabbit                                      NA        NA
## origin:namevolkswagen 1131 deluxe sedan                          NA        NA
## origin:namevolkswagen 411 (sw)                                   NA        NA
## origin:namevolkswagen dasher                                     NA        NA
## origin:namevolkswagen jetta                                      NA        NA
## origin:namevolkswagen model 111                                  NA        NA
## origin:namevolkswagen rabbit                                     NA        NA
## origin:namevolkswagen rabbit custom                              NA        NA
## origin:namevolkswagen rabbit custom diesel                       NA        NA
## origin:namevolkswagen rabbit l                                   NA        NA
## origin:namevolkswagen scirocco                                   NA        NA
## origin:namevolkswagen super beetle                               NA        NA
## origin:namevolkswagen type 3                                     NA        NA
## origin:namevolvo 144ea                                           NA        NA
## origin:namevolvo 145e (sw)                                       NA        NA
## origin:namevolvo 244dl                                           NA        NA
## origin:namevolvo 245                                             NA        NA
## origin:namevolvo 264gl                                           NA        NA
## origin:namevolvo diesel                                          NA        NA
## origin:namevw dasher (diesel)                                    NA        NA
## origin:namevw pickup                                             NA        NA
## origin:namevw rabbit                                             NA        NA
## origin:namevw rabbit c (diesel)                                  NA        NA
## origin:namevw rabbit custom                                      NA        NA
##                                                         t value Pr(>|t|)
## (Intercept)                                                NaN       NaN
## cylinders                                                  NaN       NaN
## displacement                                               NaN       NaN
## horsepower                                                 NaN       NaN
## weight                                                     NaN       NaN
## acceleration                                               NaN       NaN
## year                                                       NaN       NaN
## origin                                                     NaN       NaN
## nameamc ambassador dpl                                     NaN       NaN
## nameamc ambassador sst                                     NaN       NaN
## nameamc concord                                            NaN       NaN
## nameamc concord d/l                                        NaN       NaN
## nameamc concord dl 6                                       NaN       NaN
## nameamc gremlin                                            NaN       NaN
## nameamc hornet                                             NaN       NaN
## nameamc hornet sportabout (sw)                             NaN       NaN
## nameamc matador                                            NaN       NaN
## nameamc matador (sw)                                       NaN       NaN
## nameamc pacer                                              NaN       NaN
## nameamc pacer d/l                                          NaN       NaN
## nameamc rebel sst                                          NaN       NaN
## nameamc spirit dl                                          NaN       NaN
## nameaudi 100 ls                                            NaN       NaN
## nameaudi 100ls                                             NaN       NaN
## nameaudi 4000                                              NaN       NaN
## nameaudi 5000                                              NaN       NaN
## nameaudi 5000s (diesel)                                    NaN       NaN
## nameaudi fox                                               NaN       NaN
## namebmw 2002                                               NaN       NaN
## namebmw 320i                                               NaN       NaN
## namebuick century                                          NaN       NaN
## namebuick century 350                                      NaN       NaN
## namebuick century limited                                  NaN       NaN
```

```
## namebuick century luxus (sw)                        NaN        NaN
## namebuick century special                           NaN        NaN
## namebuick electra 225 custom                         NaN        NaN
## namebuick estate wagon (sw)                          NaN        NaN
## namebuick lesabre custom                             NaN        NaN
## namebuick opel isuzu deluxe                          NaN        NaN
## namebuick regal sport coupe (turbo)                  NaN        NaN
## namebuick skyhawk                                    NaN        NaN
## namebuick skylark                                    NaN        NaN
## namebuick skylark 320                                NaN        NaN
## namebuick skylark limited                            NaN        NaN
## namecadillac eldorado                                NaN        NaN
## namecadillac seville                                 NaN        NaN
## namecapri ii                                         NaN        NaN
## namechevroelt chevelle malibu                        NaN        NaN
## namechevrolet bel air                                NaN        NaN
## namechevrolet camaro                                 NaN        NaN
## namechevrolet caprice classic                        NaN        NaN
## namechevrolet cavalier                               NaN        NaN
## namechevrolet cavalier 2-door                        NaN        NaN
## namechevrolet cavalier wagon                         NaN        NaN
## namechevrolet chevelle concours (sw)                 NaN        NaN
## namechevrolet chevelle malibu                        NaN        NaN
## namechevrolet chevelle malibu classic                NaN        NaN
## namechevrolet chevette                               NaN        NaN
## namechevrolet citation                               NaN        NaN
## namechevrolet concours                               NaN        NaN
## namechevrolet impala                                 NaN        NaN
## namechevrolet malibu                                 NaN        NaN
## namechevrolet malibu classic (sw)                    NaN        NaN
## namechevrolet monte carlo                            NaN        NaN
## namechevrolet monte carlo landau                     NaN        NaN
## namechevrolet monte carlo s                          NaN        NaN
## namechevrolet monza 2+2                              NaN        NaN
## namechevrolet nova                                   NaN        NaN
## namechevrolet nova custom                            NaN        NaN
## namechevrolet vega                                   NaN        NaN
## namechevrolet vega (sw)                              NaN        NaN
## namechevrolet vega 2300                              NaN        NaN
## namechevrolet woody                                  NaN        NaN
## namechevy c10                                        NaN        NaN
## namechevy c20                                        NaN        NaN
## namechevy s-10                                       NaN        NaN
## namechrysler cordoba                                 NaN        NaN
## namechrysler lebaron medallion                       NaN        NaN
## namechrysler lebaron salon                           NaN        NaN
## namechrysler lebaron town @ country (sw)             NaN        NaN
## namechrysler new yorker brougham                     NaN        NaN
## namechrysler newport royal                           NaN        NaN
## namedatsun 1200                                      NaN        NaN
## namedatsun 200-sx                                    NaN        NaN
## namedatsun 200sx                                     NaN        NaN
## namedatsun 210                                       NaN        NaN
## namedatsun 210 mpg                                   NaN        NaN
## namedatsun 280-zx                                    NaN        NaN
## namedatsun 310                                       NaN        NaN
## namedatsun 310 gx                                    NaN        NaN
## namedatsun 510                                       NaN        NaN
## namedatsun 510 (sw)                                  NaN        NaN
## namedatsun 510 hatchback                             NaN        NaN
## namedatsun 610                                       NaN        NaN
## namedatsun 710                                       NaN        NaN
## namedatsun 810                                       NaN        NaN
## namedatsun 810 maxima                                NaN        NaN
## namedatsun b-210                                     NaN        NaN
## namedatsun b210                                      NaN        NaN
## namedatsun b210 gx                                   NaN        NaN
## namedatsun f-10 hatchback                            NaN        NaN
## namedatsun pl510                                     NaN        NaN
## namedodge aries se                                   NaN        NaN
## namedodge aries wagon (sw)                           NaN        NaN
## namedodge aspen                                      NaN        NaN
## namedodge aspen 6                                    NaN        NaN
## namedodge aspen se                                   NaN        NaN
## namedodge challenger se                              NaN        NaN
## namedodge charger 2.2                                NaN        NaN
```

```
## namedodge colt                              NaN       NaN
## namedodge colt (sw)                         NaN       NaN
## namedodge colt hardtop                      NaN       NaN
## namedodge colt hatchback custom             NaN       NaN
## namedodge colt m/m                          NaN       NaN
## namedodge coronet brougham                  NaN       NaN
## namedodge coronet custom                    NaN       NaN
## namedodge coronet custom (sw)               NaN       NaN
## namedodge d100                              NaN       NaN
## namedodge d200                              NaN       NaN
## namedodge dart custom                       NaN       NaN
## namedodge diplomat                          NaN       NaN
## namedodge magnum xe                         NaN       NaN
## namedodge monaco (sw)                       NaN       NaN
## namedodge monaco brougham                   NaN       NaN
## namedodge omni                              NaN       NaN
## namedodge rampage                           NaN       NaN
## namedodge st. regis                         NaN       NaN
## namefiat 124 sport coupe                    NaN       NaN
## namefiat 124 tc                             NaN       NaN
## namefiat 124b                               NaN       NaN
## namefiat 128                                NaN       NaN
## namefiat 131                                NaN       NaN
## namefiat strada custom                      NaN       NaN
## namefiat x1.9                               NaN       NaN
## nameford country                            NaN       NaN
## nameford country squire (sw)                NaN       NaN
## nameford escort 2h                          NaN       NaN
## nameford escort 4w                          NaN       NaN
## nameford f108                               NaN       NaN
## nameford f250                               NaN       NaN
## nameford fairmont                           NaN       NaN
## nameford fairmont (auto)                    NaN       NaN
## nameford fairmont (man)                     NaN       NaN
## nameford fairmont 4                         NaN       NaN
## nameford fairmont futura                    NaN       NaN
## nameford fiesta                             NaN       NaN
## nameford futura                             NaN       NaN
## nameford galaxie 500                        NaN       NaN
## nameford gran torino                        NaN       NaN
## nameford gran torino (sw)                   NaN       NaN
## nameford granada                            NaN       NaN
## nameford granada ghia                        NaN       NaN
## nameford granada gl                         NaN       NaN
## nameford granada l                          NaN       NaN
## nameford ltd                                NaN       NaN
## nameford ltd landau                         NaN       NaN
## nameford maverick                           NaN       NaN
## nameford mustang                            NaN       NaN
## nameford mustang gl                         NaN       NaN
## nameford mustang ii                         NaN       NaN
## nameford mustang ii 2+2                     NaN       NaN
## nameford pinto                              NaN       NaN
## nameford pinto (sw)                         NaN       NaN
## nameford pinto runabout                     NaN       NaN
## nameford ranger                             NaN       NaN
## nameford thunderbird                        NaN       NaN
## nameford torino                             NaN       NaN
## nameford torino 500                         NaN       NaN
## namehi 1200d                                NaN       NaN
## namehonda accord                            NaN       NaN
## namehonda accord cvcc                       NaN       NaN
## namehonda accord lx                         NaN       NaN
## namehonda civic                             NaN       NaN
## namehonda civic (auto)                      NaN       NaN
## namehonda civic 1300                        NaN       NaN
## namehonda civic 1500 gl                     NaN       NaN
## namehonda civic cvcc                        NaN       NaN
## namehonda prelude                           NaN       NaN
## namemaxda glc deluxe                        NaN       NaN
## namemaxda rx3                               NaN       NaN
## namemazda 626                               NaN       NaN
## namemazda glc                               NaN       NaN
## namemazda glc 4                             NaN       NaN
## namemazda glc custom                        NaN       NaN
## namemazda glc custom l                      NaN       NaN
```

```
## namemazda glc deluxe                              NaN        NaN
## namemazda rx-4                                    NaN        NaN
## namemazda rx-7 gs                                 NaN        NaN
## namemazda rx2 coupe                               NaN        NaN
## namemercedes benz 300d                            NaN        NaN
## namemercedes-benz 240d                            NaN        NaN
## namemercedes-benz 280s                            NaN        NaN
## namemercury capri 2000                            NaN        NaN
## namemercury capri v6                              NaN        NaN
## namemercury cougar brougham                       NaN        NaN
## namemercury grand marquis                         NaN        NaN
## namemercury lynx l                                NaN        NaN
## namemercury marquis                               NaN        NaN
## namemercury marquis brougham                      NaN        NaN
## namemercury monarch                               NaN        NaN
## namemercury monarch ghia                          NaN        NaN
## namemercury zephyr                                NaN        NaN
## namemercury zephyr 6                              NaN        NaN
## namenissan stanza xe                              NaN        NaN
## nameoldsmobile cutlass ciera (diesel)             NaN        NaN
## nameoldsmobile cutlass ls                         NaN        NaN
## nameoldsmobile cutlass salon brougham             NaN        NaN
## nameoldsmobile cutlass supreme                    NaN        NaN
## nameoldsmobile delta 88 royale                    NaN        NaN
## nameoldsmobile omega                              NaN        NaN
## nameoldsmobile omega brougham                     NaN        NaN
## nameoldsmobile starfire sx                        NaN        NaN
## nameoldsmobile vista cruiser                      NaN        NaN
## nameopel 1900                                     NaN        NaN
## nameopel manta                                    NaN        NaN
## namepeugeot 304                                   NaN        NaN
## namepeugeot 504                                   NaN        NaN
## namepeugeot 504 (sw)                              NaN        NaN
## namepeugeot 505s turbo diesel                     NaN        NaN
## namepeugeot 604sl                                 NaN        NaN
## nameplymouth 'cuda 340                            NaN        NaN
## nameplymouth arrow gs                             NaN        NaN
## nameplymouth champ                                NaN        NaN
## nameplymouth cricket                              NaN        NaN
## nameplymouth custom suburb                        NaN        NaN
## nameplymouth duster                               NaN        NaN
## nameplymouth fury                                 NaN        NaN
## nameplymouth fury gran sedan                      NaN        NaN
## nameplymouth fury iii                             NaN        NaN
## nameplymouth grand fury                           NaN        NaN
## nameplymouth horizon                              NaN        NaN
## nameplymouth horizon 4                            NaN        NaN
## nameplymouth horizon miser                        NaN        NaN
## nameplymouth horizon tc3                          NaN        NaN
## nameplymouth reliant                              NaN        NaN
## nameplymouth sapporo                              NaN        NaN
## nameplymouth satellite                            NaN        NaN
## nameplymouth satellite custom                     NaN        NaN
## nameplymouth satellite custom (sw)                NaN        NaN
## nameplymouth satellite sebring                    NaN        NaN
## nameplymouth valiant                              NaN        NaN
## nameplymouth valiant custom                       NaN        NaN
## nameplymouth volare                               NaN        NaN
## nameplymouth volare custom                        NaN        NaN
## nameplymouth volare premier v8                    NaN        NaN
## namepontiac astro                                 NaN        NaN
## namepontiac catalina                              NaN        NaN
## namepontiac catalina brougham                     NaN        NaN
## namepontiac firebird                              NaN        NaN
## namepontiac grand prix                            NaN        NaN
## namepontiac grand prix lj                         NaN        NaN
## namepontiac j2000 se hatchback                    NaN        NaN
## namepontiac lemans v6                             NaN        NaN
## namepontiac phoenix                               NaN        NaN
## namepontiac phoenix lj                            NaN        NaN
## namepontiac safari (sw)                           NaN        NaN
## namepontiac sunbird coupe                         NaN        NaN
## namepontiac ventura sj                            NaN        NaN
## namerenault 12 (sw)                               NaN        NaN
## namerenault 12tl                                  NaN        NaN
## namerenault 5 gtl                                 NaN        NaN
```

```
## namesaab 99e                                       NaN    NaN
## namesaab 99gle                                     NaN    NaN
## namesaab 99le                                      NaN    NaN
## namesubaru                                         NaN    NaN
## namesubaru dl                                      NaN    NaN
## nametoyota carina                                  NaN    NaN
## nametoyota celica gt                               NaN    NaN
## nametoyota celica gt liftback                      NaN    NaN
## nametoyota corolla                                 NaN    NaN
## nametoyota corolla 1200                            NaN    NaN
## nametoyota corolla 1600 (sw)                       NaN    NaN
## nametoyota corolla liftback                        NaN    NaN
## nametoyota corolla tercel                          NaN    NaN
## nametoyota corona                                  NaN    NaN
## nametoyota corona hardtop                          NaN    NaN
## nametoyota corona liftback                         NaN    NaN
## nametoyota corona mark ii                          NaN    NaN
## nametoyota cressida                                NaN    NaN
## nametoyota mark ii                                 NaN    NaN
## nametoyota starlet                                 NaN    NaN
## nametoyota tercel                                  NaN    NaN
## nametoyouta corona mark ii (sw)                    NaN    NaN
## nametriumph tr7 coupe                              NaN    NaN
## namevokswagen rabbit                               NaN    NaN
## namevolkswagen 1131 deluxe sedan                   NaN    NaN
## namevolkswagen 411 (sw)                            NaN    NaN
## namevolkswagen dasher                              NaN    NaN
## namevolkswagen jetta                               NaN    NaN
## namevolkswagen model 111                           NaN    NaN
## namevolkswagen rabbit                              NaN    NaN
## namevolkswagen rabbit custom                       NaN    NaN
## namevolkswagen rabbit custom diesel                NaN    NaN
## namevolkswagen rabbit l                            NaN    NaN
## namevolkswagen scirocco                            NaN    NaN
## namevolkswagen super beetle                        NaN    NaN
## namevolkswagen type 3                              NaN    NaN
## namevolvo 144ea                                    NaN    NaN
## namevolvo 145e (sw)                                NaN    NaN
## namevolvo 244dl                                    NaN    NaN
## namevolvo 245                                      NaN    NaN
## namevolvo 264gl                                    NaN    NaN
## namevolvo diesel                                   NaN    NaN
## namevw dasher (diesel)                             NaN    NaN
## namevw pickup                                      NaN    NaN
## namevw rabbit                                      NaN    NaN
## namevw rabbit c (diesel)                           NaN    NaN
## namevw rabbit custom                               NA     NA
## cylinders:displacement                             NaN    NaN
## cylinders:horsepower                               NaN    NaN
## cylinders:weight                                   NaN    NaN
## cylinders:acceleration                             NaN    NaN
## cylinders:year                                     NaN    NaN
## cylinders:origin                                   NA     NA
## cylinders:nameamc ambassador dpl                   NA     NA
## cylinders:nameamc ambassador sst                   NA     NA
## cylinders:nameamc concord                          NaN    NaN
## cylinders:nameamc concord d/l                      NA     NA
## cylinders:nameamc concord dl 6                     NA     NA
## cylinders:nameamc gremlin                          NA     NA
## cylinders:nameamc hornet                           NA     NA
## cylinders:nameamc hornet sportabout (sw)           NA     NA
## cylinders:nameamc matador                          NaN    NaN
## cylinders:nameamc matador (sw)                     NA     NA
## cylinders:nameamc pacer                            NA     NA
## cylinders:nameamc pacer d/l                        NA     NA
## cylinders:nameamc rebel sst                        NA     NA
## cylinders:nameamc spirit dl                        NA     NA
## cylinders:nameaudi 100 ls                          NA     NA
## cylinders:nameaudi 100ls                           NA     NA
## cylinders:nameaudi 4000                            NA     NA
## cylinders:nameaudi 5000                            NA     NA
## cylinders:nameaudi 5000s (diesel)                  NA     NA
## cylinders:nameaudi fox                             NA     NA
## cylinders:namebmw 2002                             NA     NA
## cylinders:namebmw 320i                             NA     NA
## cylinders:namebuick century                        NA     NA
```

```
## cylinders:namebuick century 350                            NA       NA
## cylinders:namebuick century limited                        NA       NA
## cylinders:namebuick century luxus (sw)                     NA       NA
## cylinders:namebuick century special                        NA       NA
## cylinders:namebuick electra 225 custom                      NA       NA
## cylinders:namebuick estate wagon (sw)                       NA       NA
## cylinders:namebuick lesabre custom                          NA       NA
## cylinders:namebuick opel isuzu deluxe                       NA       NA
## cylinders:namebuick regal sport coupe (turbo)               NA       NA
## cylinders:namebuick skyhawk                                 NA       NA
## cylinders:namebuick skylark                                NaN      NaN
## cylinders:namebuick skylark 320                             NA       NA
## cylinders:namebuick skylark limited                         NA       NA
## cylinders:namecadillac eldorado                             NA       NA
## cylinders:namecadillac seville                              NA       NA
## cylinders:namecapri ii                                      NA       NA
## cylinders:namechevroelt chevelle malibu                     NA       NA
## cylinders:namechevrolet bel air                             NA       NA
## cylinders:namechevrolet camaro                              NA       NA
## cylinders:namechevrolet caprice classic                     NA       NA
## cylinders:namechevrolet cavalier                            NA       NA
## cylinders:namechevrolet cavalier 2-door                     NA       NA
## cylinders:namechevrolet cavalier wagon                      NA       NA
## cylinders:namechevrolet chevelle concours (sw)              NA       NA
## cylinders:namechevrolet chevelle malibu                    NaN      NaN
## cylinders:namechevrolet chevelle malibu classic            NaN      NaN
## cylinders:namechevrolet chevette                            NA       NA
## cylinders:namechevrolet citation                           NaN      NaN
## cylinders:namechevrolet concours                            NA       NA
## cylinders:namechevrolet impala                              NA       NA
## cylinders:namechevrolet malibu                             NaN      NaN
## cylinders:namechevrolet malibu classic (sw)                 NA       NA
## cylinders:namechevrolet monte carlo                         NA       NA
## cylinders:namechevrolet monte carlo landau                  NA       NA
## cylinders:namechevrolet monte carlo s                       NA       NA
## cylinders:namechevrolet monza 2+2                           NA       NA
## cylinders:namechevrolet nova                                NA       NA
## cylinders:namechevrolet nova custom                         NA       NA
## cylinders:namechevrolet vega                                NA       NA
## cylinders:namechevrolet vega (sw)                           NA       NA
## cylinders:namechevrolet vega 2300                           NA       NA
## cylinders:namechevrolet woody                               NA       NA
## cylinders:namechevy c10                                     NA       NA
## cylinders:namechevy c20                                     NA       NA
## cylinders:namechevy s-10                                    NA       NA
## cylinders:namechrysler cordoba                              NA       NA
## cylinders:namechrysler lebaron medallion                    NA       NA
## cylinders:namechrysler lebaron salon                        NA       NA
## cylinders:namechrysler lebaron town @ country (sw)          NA       NA
## cylinders:namechrysler new yorker brougham                  NA       NA
## cylinders:namechrysler newport royal                        NA       NA
## cylinders:namedatsun 1200                                   NA       NA
## cylinders:namedatsun 200-sx                                 NA       NA
## cylinders:namedatsun 200sx                                  NA       NA
## cylinders:namedatsun 210                                    NA       NA
## cylinders:namedatsun 210 mpg                                NA       NA
## cylinders:namedatsun 280-zx                                 NA       NA
## cylinders:namedatsun 310                                    NA       NA
## cylinders:namedatsun 310 gx                                 NA       NA
## cylinders:namedatsun 510                                    NA       NA
## cylinders:namedatsun 510 (sw)                               NA       NA
## cylinders:namedatsun 510 hatchback                          NA       NA
## cylinders:namedatsun 610                                    NA       NA
## cylinders:namedatsun 710                                    NA       NA
## cylinders:namedatsun 810                                    NA       NA
## cylinders:namedatsun 810 maxima                             NA       NA
## cylinders:namedatsun b-210                                  NA       NA
## cylinders:namedatsun b210                                   NA       NA
## cylinders:namedatsun b210 gx                                NA       NA
## cylinders:namedatsun f-10 hatchback                         NA       NA
## cylinders:namedatsun pl510                                  NA       NA
## cylinders:namedodge aries se                                NA       NA
## cylinders:namedodge aries wagon (sw)                        NA       NA
## cylinders:namedodge aspen                                   NA       NA
## cylinders:namedodge aspen 6                                 NA       NA
## cylinders:namedodge aspen se                                NA       NA
```

```
## cylinders:namedodge challenger se                    NA      NA
## cylinders:namedodge charger 2.2                      NA      NA
## cylinders:namedodge colt                             NA      NA
## cylinders:namedodge colt (sw)                        NA      NA
## cylinders:namedodge colt hardtop                     NA      NA
## cylinders:namedodge colt hatchback custom            NA      NA
## cylinders:namedodge colt m/m                         NA      NA
## cylinders:namedodge coronet brougham                 NA      NA
## cylinders:namedodge coronet custom                   NA      NA
## cylinders:namedodge coronet custom (sw)              NA      NA
## cylinders:namedodge d100                             NA      NA
## cylinders:namedodge d200                             NA      NA
## cylinders:namedodge dart custom                      NA      NA
## cylinders:namedodge diplomat                         NA      NA
## cylinders:namedodge magnum xe                        NA      NA
## cylinders:namedodge monaco (sw)                      NA      NA
## cylinders:namedodge monaco brougham                  NA      NA
## cylinders:namedodge omni                             NA      NA
## cylinders:namedodge rampage                          NA      NA
## cylinders:namedodge st. regis                        NA      NA
## cylinders:namefiat 124 sport coupe                   NA      NA
## cylinders:namefiat 124 tc                            NA      NA
## cylinders:namefiat 124b                              NA      NA
## cylinders:namefiat 128                               NA      NA
## cylinders:namefiat 131                               NA      NA
## cylinders:namefiat strada custom                     NA      NA
## cylinders:namefiat x1.9                              NA      NA
## cylinders:nameford country                           NA      NA
## cylinders:nameford country squire (sw)               NA      NA
## cylinders:nameford escort 2h                         NA      NA
## cylinders:nameford escort 4w                         NA      NA
## cylinders:nameford f108                              NA      NA
## cylinders:nameford f250                              NA      NA
## cylinders:nameford fairmont                          NA      NA
## cylinders:nameford fairmont (auto)                   NA      NA
## cylinders:nameford fairmont (man)                    NA      NA
## cylinders:nameford fairmont 4                        NA      NA
## cylinders:nameford fairmont futura                   NA      NA
## cylinders:nameford fiesta                            NA      NA
## cylinders:nameford futura                            NA      NA
## cylinders:nameford galaxie 500                       NA      NA
## cylinders:nameford gran torino                       NA      NA
## cylinders:nameford gran torino (sw)                  NA      NA
## cylinders:nameford granada                           NA      NA
## cylinders:nameford granada ghia                      NA      NA
## cylinders:nameford granada gl                        NA      NA
## cylinders:nameford granada l                         NA      NA
## cylinders:nameford ltd                               NA      NA
## cylinders:nameford ltd landau                        NA      NA
## cylinders:nameford maverick                          NA      NA
## cylinders:nameford mustang                           NA      NA
## cylinders:nameford mustang gl                        NA      NA
## cylinders:nameford mustang ii                        NA      NA
## cylinders:nameford mustang ii 2+2                    NA      NA
## cylinders:nameford pinto                             NA      NA
## cylinders:nameford pinto (sw)                        NA      NA
## cylinders:nameford pinto runabout                    NA      NA
## cylinders:nameford ranger                            NA      NA
## cylinders:nameford thunderbird                       NA      NA
## cylinders:nameford torino                            NA      NA
## cylinders:nameford torino 500                        NA      NA
## cylinders:namehi 1200d                               NA      NA
## cylinders:namehonda accord                           NA      NA
## cylinders:namehonda accord cvcc                      NA      NA
## cylinders:namehonda accord lx                        NA      NA
## cylinders:namehonda civic                            NA      NA
## cylinders:namehonda civic (auto)                     NA      NA
## cylinders:namehonda civic 1300                       NA      NA
## cylinders:namehonda civic 1500 gl                    NA      NA
## cylinders:namehonda civic cvcc                       NA      NA
## cylinders:namehonda prelude                          NA      NA
## cylinders:namemaxda glc deluxe                       NA      NA
## cylinders:namemaxda rx3                              NA      NA
## cylinders:namemazda 626                              NA      NA
## cylinders:namemazda glc                              NA      NA
## cylinders:namemazda glc 4                            NA      NA
```

```
## cylinders:namemazda glc custom                              NA        NA
## cylinders:namemazda glc custom l                            NA        NA
## cylinders:namemazda glc deluxe                              NA        NA
## cylinders:namemazda rx-4                                    NA        NA
## cylinders:namemazda rx-7 gs                                 NA        NA
## cylinders:namemazda rx2 coupe                               NA        NA
## cylinders:namemercedes benz 300d                            NA        NA
## cylinders:namemercedes-benz 240d                            NA        NA
## cylinders:namemercedes-benz 280s                            NA        NA
## cylinders:namemercury capri 2000                            NA        NA
## cylinders:namemercury capri v6                              NA        NA
## cylinders:namemercury cougar brougham                       NA        NA
## cylinders:namemercury grand marquis                         NA        NA
## cylinders:namemercury lynx l                                NA        NA
## cylinders:namemercury marquis                               NA        NA
## cylinders:namemercury marquis brougham                      NA        NA
## cylinders:namemercury monarch                               NA        NA
## cylinders:namemercury monarch ghia                          NA        NA
## cylinders:namemercury zephyr                                NA        NA
## cylinders:namemercury zephyr 6                              NA        NA
## cylinders:namenissan stanza xe                              NA        NA
## cylinders:nameoldsmobile cutlass ciera (diesel)            NA        NA
## cylinders:nameoldsmobile cutlass ls                         NA        NA
## cylinders:nameoldsmobile cutlass salon brougham             NA        NA
## cylinders:nameoldsmobile cutlass supreme                    NA        NA
## cylinders:nameoldsmobile delta 88 royale                    NA        NA
## cylinders:nameoldsmobile omega                              NA        NA
## cylinders:nameoldsmobile omega brougham                     NA        NA
## cylinders:nameoldsmobile starfire sx                        NA        NA
## cylinders:nameoldsmobile vista cruiser                      NA        NA
## cylinders:nameopel 1900                                     NA        NA
## cylinders:nameopel manta                                    NA        NA
## cylinders:namepeugeot 304                                   NA        NA
## cylinders:namepeugeot 504                                   NA        NA
## cylinders:namepeugeot 504 (sw)                              NA        NA
## cylinders:namepeugeot 505s turbo diesel                     NA        NA
## cylinders:namepeugeot 604sl                                 NA        NA
## cylinders:nameplymouth 'cuda 340                            NA        NA
## cylinders:nameplymouth arrow gs                             NA        NA
## cylinders:nameplymouth champ                                NA        NA
## cylinders:nameplymouth cricket                              NA        NA
## cylinders:nameplymouth custom suburb                        NA        NA
## cylinders:nameplymouth duster                               NA        NA
## cylinders:nameplymouth fury                                 NA        NA
## cylinders:nameplymouth fury gran sedan                      NA        NA
## cylinders:nameplymouth fury iii                             NA        NA
## cylinders:nameplymouth grand fury                           NA        NA
## cylinders:nameplymouth horizon                              NA        NA
## cylinders:nameplymouth horizon 4                            NA        NA
## cylinders:nameplymouth horizon miser                        NA        NA
## cylinders:nameplymouth horizon tc3                          NA        NA
## cylinders:nameplymouth reliant                              NA        NA
## cylinders:nameplymouth sapporo                              NA        NA
## cylinders:nameplymouth satellite                            NA        NA
## cylinders:nameplymouth satellite custom                     NA        NA
## cylinders:nameplymouth satellite custom (sw)                NA        NA
## cylinders:nameplymouth satellite sebring                    NA        NA
## cylinders:nameplymouth valiant                              NA        NA
## cylinders:nameplymouth valiant custom                       NA        NA
## cylinders:nameplymouth volare                               NA        NA
## cylinders:nameplymouth volare custom                        NA        NA
## cylinders:nameplymouth volare premier v8                    NA        NA
## cylinders:namepontiac astro                                 NA        NA
## cylinders:namepontiac catalina                              NA        NA
## cylinders:namepontiac catalina brougham                     NA        NA
## cylinders:namepontiac firebird                              NA        NA
## cylinders:namepontiac grand prix                            NA        NA
## cylinders:namepontiac grand prix lj                         NA        NA
## cylinders:namepontiac j2000 se hatchback                    NA        NA
## cylinders:namepontiac lemans v6                             NA        NA
## cylinders:namepontiac phoenix                               NA        NA
## cylinders:namepontiac phoenix lj                            NA        NA
## cylinders:namepontiac safari (sw)                           NA        NA
## cylinders:namepontiac sunbird coupe                         NA        NA
## cylinders:namepontiac ventura sj                            NA        NA
## cylinders:namerenault 12 (sw)                               NA        NA
```

```
## cylinders:namerenault 12tl                        NA      NA
## cylinders:namerenault 5 gtl                        NA      NA
## cylinders:namesaab 99e                             NA      NA
## cylinders:namesaab 99gle                           NA      NA
## cylinders:namesaab 99le                            NA      NA
## cylinders:namesubaru                               NA      NA
## cylinders:namesubaru dl                            NA      NA
## cylinders:nametoyota carina                        NA      NA
## cylinders:nametoyota celica gt                     NA      NA
## cylinders:nametoyota celica gt liftback            NA      NA
## cylinders:nametoyota corolla                       NA      NA
## cylinders:nametoyota corolla 1200                  NA      NA
## cylinders:nametoyota corolla 1600 (sw)             NA      NA
## cylinders:nametoyota corolla liftback              NA      NA
## cylinders:nametoyota corolla tercel                NA      NA
## cylinders:nametoyota corona                        NA      NA
## cylinders:nametoyota corona hardtop                NA      NA
## cylinders:nametoyota corona liftback               NA      NA
## cylinders:nametoyota corona mark ii                NA      NA
## cylinders:nametoyota cressida                      NA      NA
## cylinders:nametoyota mark ii                       NA      NA
## cylinders:nametoyota starlet                       NA      NA
## cylinders:nametoyota tercel                        NA      NA
## cylinders:nametoyouta corona mark ii (sw)          NA      NA
## cylinders:nametriumph tr7 coupe                    NA      NA
## cylinders:namevokswagen rabbit                     NA      NA
## cylinders:namevolkswagen 1131 deluxe sedan         NA      NA
## cylinders:namevolkswagen 411 (sw)                  NA      NA
## cylinders:namevolkswagen dasher                    NA      NA
## cylinders:namevolkswagen jetta                     NA      NA
## cylinders:namevolkswagen model 111                 NA      NA
## cylinders:namevolkswagen rabbit                    NA      NA
## cylinders:namevolkswagen rabbit custom             NA      NA
## cylinders:namevolkswagen rabbit custom diesel      NA      NA
## cylinders:namevolkswagen rabbit l                  NA      NA
## cylinders:namevolkswagen scirocco                  NA      NA
## cylinders:namevolkswagen super beetle              NA      NA
## cylinders:namevolkswagen type 3                    NA      NA
## cylinders:namevolvo 144ea                          NA      NA
## cylinders:namevolvo 145e (sw)                      NA      NA
## cylinders:namevolvo 244dl                          NA      NA
## cylinders:namevolvo 245                            NA      NA
## cylinders:namevolvo 264gl                          NA      NA
## cylinders:namevolvo diesel                         NA      NA
## cylinders:namevw dasher (diesel)                   NA      NA
## cylinders:namevw pickup                            NA      NA
## cylinders:namevw rabbit                            NA      NA
## cylinders:namevw rabbit c (diesel)                 NA      NA
## cylinders:namevw rabbit custom                     NA      NA
## displacement:horsepower                           NaN     NaN
## displacement:weight                               NaN     NaN
## displacement:acceleration                         NaN     NaN
## displacement:year                                 NaN     NaN
## displacement:origin                               NaN     NaN
## displacement:nameamc ambassador dpl                NA      NA
## displacement:nameamc ambassador sst                NA      NA
## displacement:nameamc concord                       NA      NA
## displacement:nameamc concord d/l                   NA      NA
## displacement:nameamc concord dl 6                  NA      NA
## displacement:nameamc gremlin                      NaN     NaN
## displacement:nameamc hornet                       NaN     NaN
## displacement:nameamc hornet sportabout (sw)        NA      NA
## displacement:nameamc matador                      NaN     NaN
## displacement:nameamc matador (sw)                  NA      NA
## displacement:nameamc pacer                         NA      NA
## displacement:nameamc pacer d/l                     NA      NA
## displacement:nameamc rebel sst                     NA      NA
## displacement:nameamc spirit dl                     NA      NA
## displacement:nameaudi 100 ls                       NA      NA
## displacement:nameaudi 100ls                       NaN     NaN
## displacement:nameaudi 4000                         NA      NA
## displacement:nameaudi 5000                         NA      NA
## displacement:nameaudi 5000s (diesel)               NA      NA
## displacement:nameaudi fox                          NA      NA
## displacement:namebmw 2002                          NA      NA
## displacement:namebmw 320i                          NA      NA
```

```
## displacement:namebuick century                            NA      NA
## displacement:namebuick century 350                         NA      NA
## displacement:namebuick century limited                     NA      NA
## displacement:namebuick century luxus (sw)                  NA      NA
## displacement:namebuick century special                     NA      NA
## displacement:namebuick electra 225 custom                  NA      NA
## displacement:namebuick estate wagon (sw)                   NaN     NaN
## displacement:namebuick lesabre custom                      NA      NA
## displacement:namebuick opel isuzu deluxe                   NA      NA
## displacement:namebuick regal sport coupe (turbo)           NA      NA
## displacement:namebuick skyhawk                             NA      NA
## displacement:namebuick skylark                             NA      NA
## displacement:namebuick skylark 320                         NA      NA
## displacement:namebuick skylark limited                     NA      NA
## displacement:namecadillac eldorado                         NA      NA
## displacement:namecadillac seville                          NA      NA
## displacement:namecapri ii                                  NA      NA
## displacement:namechevroelt chevelle malibu                 NA      NA
## displacement:namechevrolet bel air                         NA      NA
## displacement:namechevrolet camaro                          NA      NA
## displacement:namechevrolet caprice classic                 NaN     NaN
## displacement:namechevrolet cavalier                        NA      NA
## displacement:namechevrolet cavalier 2-door                 NA      NA
## displacement:namechevrolet cavalier wagon                  NA      NA
## displacement:namechevrolet chevelle concours (sw)          NA      NA
## displacement:namechevrolet chevelle malibu                 NA      NA
## displacement:namechevrolet chevelle malibu classic         NA      NA
## displacement:namechevrolet chevette                        NaN     NaN
## displacement:namechevrolet citation                        NA      NA
## displacement:namechevrolet concours                        NA      NA
## displacement:namechevrolet impala                          NaN     NaN
## displacement:namechevrolet malibu                          NA      NA
## displacement:namechevrolet malibu classic (sw)             NA      NA
## displacement:namechevrolet monte carlo                     NA      NA
## displacement:namechevrolet monte carlo landau              NaN     NaN
## displacement:namechevrolet monte carlo s                   NA      NA
## displacement:namechevrolet monza 2+2                       NA      NA
## displacement:namechevrolet nova                            NA      NA
## displacement:namechevrolet nova custom                     NA      NA
## displacement:namechevrolet vega                            NA      NA
## displacement:namechevrolet vega (sw)                       NA      NA
## displacement:namechevrolet vega 2300                       NA      NA
## displacement:namechevrolet woody                           NA      NA
## displacement:namechevy c10                                 NA      NA
## displacement:namechevy c20                                 NA      NA
## displacement:namechevy s-10                                NA      NA
## displacement:namechrysler cordoba                          NA      NA
## displacement:namechrysler lebaron medallion                NA      NA
## displacement:namechrysler lebaron salon                    NA      NA
## displacement:namechrysler lebaron town @ country (sw)      NA      NA
## displacement:namechrysler new yorker brougham              NA      NA
## displacement:namechrysler newport royal                    NA      NA
## displacement:namedatsun 1200                               NA      NA
## displacement:namedatsun 200-sx                             NA      NA
## displacement:namedatsun 200sx                              NA      NA
## displacement:namedatsun 210                                NA      NA
## displacement:namedatsun 210 mpg                            NA      NA
## displacement:namedatsun 280-zx                             NA      NA
## displacement:namedatsun 310                                NA      NA
## displacement:namedatsun 310 gx                             NA      NA
## displacement:namedatsun 510                                NA      NA
## displacement:namedatsun 510 (sw)                           NA      NA
## displacement:namedatsun 510 hatchback                      NA      NA
## displacement:namedatsun 610                                NA      NA
## displacement:namedatsun 710                                NaN     NaN
## displacement:namedatsun 810                                NA      NA
## displacement:namedatsun 810 maxima                         NA      NA
## displacement:namedatsun b-210                              NA      NA
## displacement:namedatsun b210                               NA      NA
## displacement:namedatsun b210 gx                            NA      NA
## displacement:namedatsun f-10 hatchback                     NA      NA
## displacement:namedatsun pl510                              NA      NA
## displacement:namedodge aries se                            NA      NA
## displacement:namedodge aries wagon (sw)                    NA      NA
## displacement:namedodge aspen                               NA      NA
## displacement:namedodge aspen 6                             NA      NA
```

```
## displacement:namedodge aspen se                        NA        NA
## displacement:namedodge challenger se                    NA        NA
## displacement:namedodge charger 2.2                      NA        NA
## displacement:namedodge colt                            NaN       NaN
## displacement:namedodge colt (sw)                        NA        NA
## displacement:namedodge colt hardtop                     NA        NA
## displacement:namedodge colt hatchback custom            NA        NA
## displacement:namedodge colt m/m                         NA        NA
## displacement:namedodge coronet brougham                 NA        NA
## displacement:namedodge coronet custom                   NA        NA
## displacement:namedodge coronet custom (sw)              NA        NA
## displacement:namedodge d100                             NA        NA
## displacement:namedodge d200                             NA        NA
## displacement:namedodge dart custom                      NA        NA
## displacement:namedodge diplomat                         NA        NA
## displacement:namedodge magnum xe                        NA        NA
## displacement:namedodge monaco (sw)                      NA        NA
## displacement:namedodge monaco brougham                  NA        NA
## displacement:namedodge omni                             NA        NA
## displacement:namedodge rampage                          NA        NA
## displacement:namedodge st. regis                        NA        NA
## displacement:namefiat 124 sport coupe                   NA        NA
## displacement:namefiat 124 tc                            NA        NA
## displacement:namefiat 124b                              NA        NA
## displacement:namefiat 128                              NaN       NaN
## displacement:namefiat 131                               NA        NA
## displacement:namefiat strada custom                     NA        NA
## displacement:namefiat x1.9                              NA        NA
## displacement:nameford country                           NA        NA
## displacement:nameford country squire (sw)              NaN       NaN
## displacement:nameford escort 2h                         NA        NA
## displacement:nameford escort 4w                         NA        NA
## displacement:nameford f108                              NA        NA
## displacement:nameford f250                              NA        NA
## displacement:nameford fairmont                          NA        NA
## displacement:nameford fairmont (auto)                   NA        NA
## displacement:nameford fairmont (man)                    NA        NA
## displacement:nameford fairmont 4                        NA        NA
## displacement:nameford fairmont futura                   NA        NA
## displacement:nameford fiesta                            NA        NA
## displacement:nameford futura                            NA        NA
## displacement:nameford galaxie 500                      NaN       NaN
## displacement:nameford gran torino                      NaN       NaN
## displacement:nameford gran torino (sw)                  NA        NA
## displacement:nameford granada                           NA        NA
## displacement:nameford granada ghia                      NA        NA
## displacement:nameford granada gl                        NA        NA
## displacement:nameford granada l                         NA        NA
## displacement:nameford ltd                               NA        NA
## displacement:nameford ltd landau                        NA        NA
## displacement:nameford maverick                         NaN       NaN
## displacement:nameford mustang                           NA        NA
## displacement:nameford mustang gl                        NA        NA
## displacement:nameford mustang ii                        NA        NA
## displacement:nameford mustang ii 2+2                    NA        NA
## displacement:nameford pinto                            NaN       NaN
## displacement:nameford pinto (sw)                        NA        NA
## displacement:nameford pinto runabout                    NA        NA
## displacement:nameford ranger                            NA        NA
## displacement:nameford thunderbird                       NA        NA
## displacement:nameford torino                            NA        NA
## displacement:nameford torino 500                        NA        NA
## displacement:namehi 1200d                               NA        NA
## displacement:namehonda accord                           NA        NA
## displacement:namehonda accord cvcc                      NA        NA
## displacement:namehonda accord lx                        NA        NA
## displacement:namehonda civic                           NaN       NaN
## displacement:namehonda civic (auto)                     NA        NA
## displacement:namehonda civic 1300                       NA        NA
## displacement:namehonda civic 1500 gl                    NA        NA
## displacement:namehonda civic cvcc                       NA        NA
## displacement:namehonda prelude                          NA        NA
## displacement:namemaxda glc deluxe                       NA        NA
## displacement:namemaxda rx3                              NA        NA
## displacement:namemazda 626                              NA        NA
## displacement:namemazda glc                              NA        NA
```

```
## displacement:namemazda glc 4                              NA      NA
## displacement:namemazda glc custom                         NA      NA
## displacement:namemazda glc custom l                       NA      NA
## displacement:namemazda glc deluxe                         NA      NA
## displacement:namemazda rx-4                               NA      NA
## displacement:namemazda rx-7 gs                            NA      NA
## displacement:namemazda rx2 coupe                          NA      NA
## displacement:namemercedes benz 300d                       NA      NA
## displacement:namemercedes-benz 240d                       NA      NA
## displacement:namemercedes-benz 280s                       NA      NA
## displacement:namemercury capri 2000                       NA      NA
## displacement:namemercury capri v6                         NA      NA
## displacement:namemercury cougar brougham                  NA      NA
## displacement:namemercury grand marquis                    NA      NA
## displacement:namemercury lynx l                           NA      NA
## displacement:namemercury marquis                          NA      NA
## displacement:namemercury marquis brougham                 NA      NA
## displacement:namemercury monarch                          NA      NA
## displacement:namemercury monarch ghia                     NA      NA
## displacement:namemercury zephyr                           NA      NA
## displacement:namemercury zephyr 6                         NA      NA
## displacement:namenissan stanza xe                         NA      NA
## displacement:nameoldsmobile cutlass ciera (diesel)        NA      NA
## displacement:nameoldsmobile cutlass ls                    NA      NA
## displacement:nameoldsmobile cutlass salon brougham        NA      NA
## displacement:nameoldsmobile cutlass supreme               NA      NA
## displacement:nameoldsmobile delta 88 royale               NA      NA
## displacement:nameoldsmobile omega                         NA      NA
## displacement:nameoldsmobile omega brougham                NA      NA
## displacement:nameoldsmobile starfire sx                   NA      NA
## displacement:nameoldsmobile vista cruiser                 NA      NA
## displacement:nameopel 1900                                NA      NA
## displacement:nameopel manta                               NaN     NaN
## displacement:namepeugeot 304                              NA      NA
## displacement:namepeugeot 504                              NaN     NaN
## displacement:namepeugeot 504 (sw)                         NA      NA
## displacement:namepeugeot 505s turbo diesel                NA      NA
## displacement:namepeugeot 604sl                            NA      NA
## displacement:nameplymouth 'cuda 340                       NA      NA
## displacement:nameplymouth arrow gs                        NA      NA
## displacement:nameplymouth champ                           NA      NA
## displacement:nameplymouth cricket                         NA      NA
## displacement:nameplymouth custom suburb                   NA      NA
## displacement:nameplymouth duster                          NA      NA
## displacement:nameplymouth fury                            NA      NA
## displacement:nameplymouth fury gran sedan                 NA      NA
## displacement:nameplymouth fury iii                        NaN     NaN
## displacement:nameplymouth grand fury                      NA      NA
## displacement:nameplymouth horizon                         NA      NA
## displacement:nameplymouth horizon 4                       NA      NA
## displacement:nameplymouth horizon miser                   NA      NA
## displacement:nameplymouth horizon tc3                     NA      NA
## displacement:nameplymouth reliant                         NA      NA
## displacement:nameplymouth sapporo                         NA      NA
## displacement:nameplymouth satellite                       NA      NA
## displacement:nameplymouth satellite custom                NA      NA
## displacement:nameplymouth satellite custom (sw)           NA      NA
## displacement:nameplymouth satellite sebring               NA      NA
## displacement:nameplymouth valiant                         NA      NA
## displacement:nameplymouth valiant custom                  NA      NA
## displacement:nameplymouth volare                          NA      NA
## displacement:nameplymouth volare custom                   NA      NA
## displacement:nameplymouth volare premier v8               NA      NA
## displacement:namepontiac astro                            NA      NA
## displacement:namepontiac catalina                         NA      NA
## displacement:namepontiac catalina brougham                NA      NA
## displacement:namepontiac firebird                         NA      NA
## displacement:namepontiac grand prix                       NA      NA
## displacement:namepontiac grand prix lj                    NA      NA
## displacement:namepontiac j2000 se hatchback               NA      NA
## displacement:namepontiac lemans v6                        NA      NA
## displacement:namepontiac phoenix                          NA      NA
## displacement:namepontiac phoenix lj                       NA      NA
## displacement:namepontiac safari (sw)                      NA      NA
## displacement:namepontiac sunbird coupe                    NA      NA
## displacement:namepontiac ventura sj                       NA      NA
```

```
## displacement:namerenault 12 (sw)                              NA      NA
## displacement:namerenault 12tl                                 NA      NA
## displacement:namerenault 5 gtl                                NA      NA
## displacement:namesaab 99e                                     NA      NA
## displacement:namesaab 99gle                                   NA      NA
## displacement:namesaab 99le                                    NA      NA
## displacement:namesubaru                                       NaN     NaN
## displacement:namesubaru dl                                    NA      NA
## displacement:nametoyota carina                                NA      NA
## displacement:nametoyota celica gt                             NA      NA
## displacement:nametoyota celica gt liftback                    NA      NA
## displacement:nametoyota corolla                               NaN     NaN
## displacement:nametoyota corolla 1200                          NA      NA
## displacement:nametoyota corolla 1600 (sw)                     NA      NA
## displacement:nametoyota corolla liftback                      NA      NA
## displacement:nametoyota corolla tercel                        NA      NA
## displacement:nametoyota corona                                NA      NA
## displacement:nametoyota corona hardtop                        NA      NA
## displacement:nametoyota corona liftback                       NA      NA
## displacement:nametoyota corona mark ii                        NA      NA
## displacement:nametoyota cressida                              NA      NA
## displacement:nametoyota mark ii                               NA      NA
## displacement:nametoyota starlet                               NA      NA
## displacement:nametoyota tercel                                NA      NA
## displacement:nametoyouta corona mark ii (sw)                  NA      NA
## displacement:nametriumph tr7 coupe                            NA      NA
## displacement:namevokswagen rabbit                             NA      NA
## displacement:namevolkswagen 1131 deluxe sedan                 NA      NA
## displacement:namevolkswagen 411 (sw)                          NA      NA
## displacement:namevolkswagen dasher                            NaN     NaN
## displacement:namevolkswagen jetta                             NA      NA
## displacement:namevolkswagen model 111                         NA      NA
## displacement:namevolkswagen rabbit                            NaN     NaN
## displacement:namevolkswagen rabbit custom                     NA      NA
## displacement:namevolkswagen rabbit custom diesel              NA      NA
## displacement:namevolkswagen rabbit l                          NA      NA
## displacement:namevolkswagen scirocco                          NA      NA
## displacement:namevolkswagen super beetle                      NA      NA
## displacement:namevolkswagen type 3                            NA      NA
## displacement:namevolvo 144ea                                  NA      NA
## displacement:namevolvo 145e (sw)                              NA      NA
## displacement:namevolvo 244dl                                  NA      NA
## displacement:namevolvo 245                                    NA      NA
## displacement:namevolvo 264gl                                  NA      NA
## displacement:namevolvo diesel                                 NA      NA
## displacement:namevw dasher (diesel)                           NA      NA
## displacement:namevw pickup                                    NA      NA
## displacement:namevw rabbit                                    NA      NA
## displacement:namevw rabbit c (diesel)                         NA      NA
## displacement:namevw rabbit custom                             NA      NA
## horsepower:weight                                             NaN     NaN
## horsepower:acceleration                                       NaN     NaN
## horsepower:year                                               NaN     NaN
## horsepower:origin                                             NaN     NaN
## horsepower:nameamc ambassador dpl                             NA      NA
## horsepower:nameamc ambassador sst                             NA      NA
## horsepower:nameamc concord                                    NA      NA
## horsepower:nameamc concord d/l                                NA      NA
## horsepower:nameamc concord dl 6                               NA      NA
## horsepower:nameamc gremlin                                    NA      NA
## horsepower:nameamc hornet                                     NaN     NaN
## horsepower:nameamc hornet sportabout (sw)                     NA      NA
## horsepower:nameamc matador                                    NaN     NaN
## horsepower:nameamc matador (sw)                               NA      NA
## horsepower:nameamc pacer                                      NA      NA
## horsepower:nameamc pacer d/l                                  NA      NA
## horsepower:nameamc rebel sst                                  NA      NA
## horsepower:nameamc spirit dl                                  NA      NA
## horsepower:nameaudi 100 ls                                    NA      NA
## horsepower:nameaudi 100ls                                     NA      NA
## horsepower:nameaudi 4000                                      NA      NA
## horsepower:nameaudi 5000                                      NA      NA
## horsepower:nameaudi 5000s (diesel)                            NA      NA
## horsepower:nameaudi fox                                       NA      NA
## horsepower:namebmw 2002                                       NA      NA
## horsepower:namebmw 320i                                       NA      NA
```

```
## horsepower:namebuick century                                NA      NA
## horsepower:namebuick century 350                            NA      NA
## horsepower:namebuick century limited                        NA      NA
## horsepower:namebuick century luxus (sw)                     NA      NA
## horsepower:namebuick century special                        NA      NA
## horsepower:namebuick electra 225 custom                     NA      NA
## horsepower:namebuick estate wagon (sw)                      NA      NA
## horsepower:namebuick lesabre custom                         NA      NA
## horsepower:namebuick opel isuzu deluxe                      NA      NA
## horsepower:namebuick regal sport coupe (turbo)              NA      NA
## horsepower:namebuick skyhawk                                NA      NA
## horsepower:namebuick skylark                                NA      NA
## horsepower:namebuick skylark 320                            NA      NA
## horsepower:namebuick skylark limited                        NA      NA
## horsepower:namecadillac eldorado                            NA      NA
## horsepower:namecadillac seville                             NA      NA
## horsepower:namecapri ii                                     NA      NA
## horsepower:namechevroelt chevelle malibu                    NA      NA
## horsepower:namechevrolet bel air                            NA      NA
## horsepower:namechevrolet camaro                             NA      NA
## horsepower:namechevrolet caprice classic                    NaN     NaN
## horsepower:namechevrolet cavalier                           NA      NA
## horsepower:namechevrolet cavalier 2-door                    NA      NA
## horsepower:namechevrolet cavalier wagon                     NA      NA
## horsepower:namechevrolet chevelle concours (sw)             NA      NA
## horsepower:namechevrolet chevelle malibu                    NA      NA
## horsepower:namechevrolet chevelle malibu classic            NA      NA
## horsepower:namechevrolet chevette                           NaN     NaN
## horsepower:namechevrolet citation                           NaN     NaN
## horsepower:namechevrolet concours                           NA      NA
## horsepower:namechevrolet impala                             NaN     NaN
## horsepower:namechevrolet malibu                             NA      NA
## horsepower:namechevrolet malibu classic (sw)                NA      NA
## horsepower:namechevrolet monte carlo                        NA      NA
## horsepower:namechevrolet monte carlo landau                 NA      NA
## horsepower:namechevrolet monte carlo s                      NA      NA
## horsepower:namechevrolet monza 2+2                          NA      NA
## horsepower:namechevrolet nova                               NaN     NaN
## horsepower:namechevrolet nova custom                        NA      NA
## horsepower:namechevrolet vega                               NaN     NaN
## horsepower:namechevrolet vega (sw)                          NA      NA
## horsepower:namechevrolet vega 2300                          NA      NA
## horsepower:namechevrolet woody                              NA      NA
## horsepower:namechevy c10                                    NA      NA
## horsepower:namechevy c20                                    NA      NA
## horsepower:namechevy s-10                                   NA      NA
## horsepower:namechrysler cordoba                             NA      NA
## horsepower:namechrysler lebaron medallion                   NA      NA
## horsepower:namechrysler lebaron salon                       NA      NA
## horsepower:namechrysler lebaron town @ country (sw)         NA      NA
## horsepower:namechrysler new yorker brougham                 NA      NA
## horsepower:namechrysler newport royal                       NA      NA
## horsepower:namedatsun 1200                                  NA      NA
## horsepower:namedatsun 200-sx                                NA      NA
## horsepower:namedatsun 200sx                                 NA      NA
## horsepower:namedatsun 210                                   NA      NA
## horsepower:namedatsun 210 mpg                               NA      NA
## horsepower:namedatsun 280-zx                                NA      NA
## horsepower:namedatsun 310                                   NA      NA
## horsepower:namedatsun 310 gx                                NA      NA
## horsepower:namedatsun 510                                   NA      NA
## horsepower:namedatsun 510 (sw)                              NA      NA
## horsepower:namedatsun 510 hatchback                         NA      NA
## horsepower:namedatsun 610                                   NA      NA
## horsepower:namedatsun 710                                   NA      NA
## horsepower:namedatsun 810                                   NA      NA
## horsepower:namedatsun 810 maxima                            NA      NA
## horsepower:namedatsun b-210                                 NA      NA
## horsepower:namedatsun b210                                  NA      NA
## horsepower:namedatsun b210 gx                               NA      NA
## horsepower:namedatsun f-10 hatchback                        NA      NA
## horsepower:namedatsun pl510                                 NA      NA
## horsepower:namedodge aries se                               NA      NA
## horsepower:namedodge aries wagon (sw)                       NA      NA
## horsepower:namedodge aspen                                  NaN     NaN
## horsepower:namedodge aspen 6                                NA      NA
```

```
## horsepower:namedodge aspen se                             NA      NA
## horsepower:namedodge challenger se                        NA      NA
## horsepower:namedodge charger 2.2                          NA      NA
## horsepower:namedodge colt                                 NaN     NaN
## horsepower:namedodge colt (sw)                            NA      NA
## horsepower:namedodge colt hardtop                         NA      NA
## horsepower:namedodge colt hatchback custom                NA      NA
## horsepower:namedodge colt m/m                             NA      NA
## horsepower:namedodge coronet brougham                     NA      NA
## horsepower:namedodge coronet custom                       NA      NA
## horsepower:namedodge coronet custom (sw)                  NA      NA
## horsepower:namedodge d100                                 NA      NA
## horsepower:namedodge d200                                 NA      NA
## horsepower:namedodge dart custom                          NA      NA
## horsepower:namedodge diplomat                             NA      NA
## horsepower:namedodge magnum xe                            NA      NA
## horsepower:namedodge monaco (sw)                          NA      NA
## horsepower:namedodge monaco brougham                      NA      NA
## horsepower:namedodge omni                                 NA      NA
## horsepower:namedodge rampage                              NA      NA
## horsepower:namedodge st. regis                            NA      NA
## horsepower:namefiat 124 sport coupe                       NA      NA
## horsepower:namefiat 124 tc                                NA      NA
## horsepower:namefiat 124b                                  NA      NA
## horsepower:namefiat 128                                   NA      NA
## horsepower:namefiat 131                                   NA      NA
## horsepower:namefiat strada custom                         NA      NA
## horsepower:namefiat x1.9                                  NA      NA
## horsepower:nameford country                               NA      NA
## horsepower:nameford country squire (sw)                   NA      NA
## horsepower:nameford escort 2h                             NA      NA
## horsepower:nameford escort 4w                             NA      NA
## horsepower:nameford f108                                  NA      NA
## horsepower:nameford f250                                  NA      NA
## horsepower:nameford fairmont                              NA      NA
## horsepower:nameford fairmont (auto)                       NA      NA
## horsepower:nameford fairmont (man)                        NA      NA
## horsepower:nameford fairmont 4                            NA      NA
## horsepower:nameford fairmont futura                       NA      NA
## horsepower:nameford fiesta                                NA      NA
## horsepower:nameford futura                                NA      NA
## horsepower:nameford galaxie 500                           NA      NA
## horsepower:nameford gran torino                           NaN     NaN
## horsepower:nameford gran torino (sw)                      NA      NA
## horsepower:nameford granada                               NA      NA
## horsepower:nameford granada ghia                          NA      NA
## horsepower:nameford granada gl                            NA      NA
## horsepower:nameford granada l                             NA      NA
## horsepower:nameford ltd                                   NaN     NaN
## horsepower:nameford ltd landau                            NA      NA
## horsepower:nameford maverick                              NaN     NaN
## horsepower:nameford mustang                               NA      NA
## horsepower:nameford mustang gl                            NA      NA
## horsepower:nameford mustang ii                            NA      NA
## horsepower:nameford mustang ii 2+2                        NA      NA
## horsepower:nameford pinto                                 NaN     NaN
## horsepower:nameford pinto (sw)                            NA      NA
## horsepower:nameford pinto runabout                        NA      NA
## horsepower:nameford ranger                                NA      NA
## horsepower:nameford thunderbird                           NA      NA
## horsepower:nameford torino                                NA      NA
## horsepower:nameford torino 500                            NA      NA
## horsepower:namehi 1200d                                   NA      NA
## horsepower:namehonda accord                               NaN     NaN
## horsepower:namehonda accord cvcc                          NA      NA
## horsepower:namehonda accord lx                            NA      NA
## horsepower:namehonda civic                                NaN     NaN
## horsepower:namehonda civic (auto)                         NA      NA
## horsepower:namehonda civic 1300                           NA      NA
## horsepower:namehonda civic 1500 gl                        NA      NA
## horsepower:namehonda civic cvcc                           NaN     NaN
## horsepower:namehonda prelude                              NA      NA
## horsepower:namemaxda glc deluxe                           NA      NA
## horsepower:namemaxda rx3                                  NA      NA
## horsepower:namemazda 626                                  NaN     NaN
## horsepower:namemazda glc                                  NA      NA
```

```
## horsepower:namemazda glc 4                              NA      NA
## horsepower:namemazda glc custom                         NA      NA
## horsepower:namemazda glc custom l                       NA      NA
## horsepower:namemazda glc deluxe                         NA      NA
## horsepower:namemazda rx-4                               NA      NA
## horsepower:namemazda rx-7 gs                            NA      NA
## horsepower:namemazda rx2 coupe                          NA      NA
## horsepower:namemercedes benz 300d                       NA      NA
## horsepower:namemercedes-benz 240d                       NA      NA
## horsepower:namemercedes-benz 280s                       NA      NA
## horsepower:namemercury capri 2000                       NA      NA
## horsepower:namemercury capri v6                         NA      NA
## horsepower:namemercury cougar brougham                  NA      NA
## horsepower:namemercury grand marquis                    NA      NA
## horsepower:namemercury lynx l                           NA      NA
## horsepower:namemercury marquis                          NA      NA
## horsepower:namemercury marquis brougham                 NA      NA
## horsepower:namemercury monarch                          NA      NA
## horsepower:namemercury monarch ghia                     NA      NA
## horsepower:namemercury zephyr                           NA      NA
## horsepower:namemercury zephyr 6                         NA      NA
## horsepower:namenissan stanza xe                         NA      NA
## horsepower:nameoldsmobile cutlass ciera (diesel)        NA      NA
## horsepower:nameoldsmobile cutlass ls                    NA      NA
## horsepower:nameoldsmobile cutlass salon brougham        NaN     NaN
## horsepower:nameoldsmobile cutlass supreme               NA      NA
## horsepower:nameoldsmobile delta 88 royale               NA      NA
## horsepower:nameoldsmobile omega                         NA      NA
## horsepower:nameoldsmobile omega brougham                NA      NA
## horsepower:nameoldsmobile starfire sx                   NA      NA
## horsepower:nameoldsmobile vista cruiser                 NA      NA
## horsepower:nameopel 1900                                NaN     NaN
## horsepower:nameopel manta                               NA      NA
## horsepower:namepeugeot 304                              NA      NA
## horsepower:namepeugeot 504                              NaN     NaN
## horsepower:namepeugeot 504 (sw)                         NA      NA
## horsepower:namepeugeot 505s turbo diesel                NA      NA
## horsepower:namepeugeot 604sl                            NA      NA
## horsepower:nameplymouth 'cuda 340                       NA      NA
## horsepower:nameplymouth arrow gs                        NA      NA
## horsepower:nameplymouth champ                           NA      NA
## horsepower:nameplymouth cricket                         NA      NA
## horsepower:nameplymouth custom suburb                   NA      NA
## horsepower:nameplymouth duster                          NA      NA
## horsepower:nameplymouth fury                            NA      NA
## horsepower:nameplymouth fury gran sedan                 NA      NA
## horsepower:nameplymouth fury iii                        NA      NA
## horsepower:nameplymouth grand fury                      NA      NA
## horsepower:nameplymouth horizon                         NA      NA
## horsepower:nameplymouth horizon 4                       NA      NA
## horsepower:nameplymouth horizon miser                   NA      NA
## horsepower:nameplymouth horizon tc3                     NA      NA
## horsepower:nameplymouth reliant                         NA      NA
## horsepower:nameplymouth sapporo                         NA      NA
## horsepower:nameplymouth satellite                       NA      NA
## horsepower:nameplymouth satellite custom                NA      NA
## horsepower:nameplymouth satellite custom (sw)           NA      NA
## horsepower:nameplymouth satellite sebring               NA      NA
## horsepower:nameplymouth valiant                         NaN     NaN
## horsepower:nameplymouth valiant custom                  NA      NA
## horsepower:nameplymouth volare                          NA      NA
## horsepower:nameplymouth volare custom                   NA      NA
## horsepower:nameplymouth volare premier v8               NA      NA
## horsepower:namepontiac astro                            NA      NA
## horsepower:namepontiac catalina                         NaN     NaN
## horsepower:namepontiac catalina brougham                NA      NA
## horsepower:namepontiac firebird                         NA      NA
## horsepower:namepontiac grand prix                       NA      NA
## horsepower:namepontiac grand prix lj                    NA      NA
## horsepower:namepontiac j2000 se hatchback               NA      NA
## horsepower:namepontiac lemans v6                        NA      NA
## horsepower:namepontiac phoenix                          NA      NA
## horsepower:namepontiac phoenix lj                       NA      NA
## horsepower:namepontiac safari (sw)                      NA      NA
## horsepower:namepontiac sunbird coupe                    NA      NA
## horsepower:namepontiac ventura sj                       NA      NA
```

```
## horsepower:namerenault 12 (sw)                        NA      NA
## horsepower:namerenault 12tl                           NA      NA
## horsepower:namerenault 5 gtl                          NA      NA
## horsepower:namesaab 99e                               NA      NA
## horsepower:namesaab 99gle                             NA      NA
## horsepower:namesaab 99le                              NaN     NaN
## horsepower:namesubaru                                 NA      NA
## horsepower:namesubaru dl                              NA      NA
## horsepower:nametoyota carina                          NA      NA
## horsepower:nametoyota celica gt                       NA      NA
## horsepower:nametoyota celica gt liftback              NA      NA
## horsepower:nametoyota corolla                         NaN     NaN
## horsepower:nametoyota corolla 1200                    NA      NA
## horsepower:nametoyota corolla 1600 (sw)               NA      NA
## horsepower:nametoyota corolla liftback                NA      NA
## horsepower:nametoyota corolla tercel                  NA      NA
## horsepower:nametoyota corona                          NA      NA
## horsepower:nametoyota corona hardtop                  NA      NA
## horsepower:nametoyota corona liftback                 NA      NA
## horsepower:nametoyota corona mark ii                  NA      NA
## horsepower:nametoyota cressida                        NA      NA
## horsepower:nametoyota mark ii                         NA      NA
## horsepower:nametoyota starlet                         NA      NA
## horsepower:nametoyota tercel                          NA      NA
## horsepower:nametoyouta corona mark ii (sw)            NA      NA
## horsepower:nametriumph tr7 coupe                      NA      NA
## horsepower:namevokswagen rabbit                       NA      NA
## horsepower:namevolkswagen 1131 deluxe sedan           NA      NA
## horsepower:namevolkswagen 411 (sw)                    NA      NA
## horsepower:namevolkswagen dasher                      NA      NA
## horsepower:namevolkswagen jetta                       NA      NA
## horsepower:namevolkswagen model 111                   NA      NA
## horsepower:namevolkswagen rabbit                      NA      NA
## horsepower:namevolkswagen rabbit custom               NA      NA
## horsepower:namevolkswagen rabbit custom diesel        NA      NA
## horsepower:namevolkswagen rabbit l                    NA      NA
## horsepower:namevolkswagen scirocco                    NA      NA
## horsepower:namevolkswagen super beetle                NA      NA
## horsepower:namevolkswagen type 3                      NA      NA
## horsepower:namevolvo 144ea                            NA      NA
## horsepower:namevolvo 145e (sw)                        NA      NA
## horsepower:namevolvo 244dl                            NA      NA
## horsepower:namevolvo 245                              NA      NA
## horsepower:namevolvo 264gl                            NA      NA
## horsepower:namevolvo diesel                           NA      NA
## horsepower:namevw dasher (diesel)                     NA      NA
## horsepower:namevw pickup                              NA      NA
## horsepower:namevw rabbit                              NA      NA
## horsepower:namevw rabbit c (diesel)                   NA      NA
## horsepower:namevw rabbit custom                       NA      NA
## weight:acceleration                                   NaN     NaN
## weight:year                                           NaN     NaN
## weight:origin                                         NaN     NaN
## weight:nameamc ambassador dpl                         NA      NA
## weight:nameamc ambassador sst                         NA      NA
## weight:nameamc concord                                NA      NA
## weight:nameamc concord d/l                            NA      NA
## weight:nameamc concord dl 6                           NA      NA
## weight:nameamc gremlin                                NaN     NaN
## weight:nameamc hornet                                 NaN     NaN
## weight:nameamc hornet sportabout (sw)                 NA      NA
## weight:nameamc matador                                NaN     NaN
## weight:nameamc matador (sw)                           NaN     NaN
## weight:nameamc pacer                                  NA      NA
## weight:nameamc pacer d/l                              NA      NA
## weight:nameamc rebel sst                              NA      NA
## weight:nameamc spirit dl                              NA      NA
## weight:nameaudi 100 ls                                NA      NA
## weight:nameaudi 100ls                                 NA      NA
## weight:nameaudi 4000                                  NA      NA
## weight:nameaudi 5000                                  NA      NA
## weight:nameaudi 5000s (diesel)                        NA      NA
## weight:nameaudi fox                                   NA      NA
## weight:namebmw 2002                                   NA      NA
## weight:namebmw 320i                                   NA      NA
## weight:namebuick century                              NaN     NaN
```

```
## weight:namebuick century 350                                      NA       NA
## weight:namebuick century limited                                  NA       NA
## weight:namebuick century luxus (sw)                               NA       NA
## weight:namebuick century special                                  NA       NA
## weight:namebuick electra 225 custom                               NA       NA
## weight:namebuick estate wagon (sw)                                NA       NA
## weight:namebuick lesabre custom                                   NA       NA
## weight:namebuick opel isuzu deluxe                                NA       NA
## weight:namebuick regal sport coupe (turbo)                        NA       NA
## weight:namebuick skyhawk                                          NA       NA
## weight:namebuick skylark                                          NA       NA
## weight:namebuick skylark 320                                      NA       NA
## weight:namebuick skylark limited                                  NA       NA
## weight:namecadillac eldorado                                      NA       NA
## weight:namecadillac seville                                       NA       NA
## weight:namecapri ii                                               NA       NA
## weight:namechevroelt chevelle malibu                              NA       NA
## weight:namechevrolet bel air                                      NA       NA
## weight:namechevrolet camaro                                       NA       NA
## weight:namechevrolet caprice classic                              NA       NA
## weight:namechevrolet cavalier                                     NA       NA
## weight:namechevrolet cavalier 2-door                              NA       NA
## weight:namechevrolet cavalier wagon                               NA       NA
## weight:namechevrolet chevelle concours (sw)                       NA       NA
## weight:namechevrolet chevelle malibu                              NA       NA
## weight:namechevrolet chevelle malibu classic                      NA       NA
## weight:namechevrolet chevette                                     NaN      NaN
## weight:namechevrolet citation                                     NA       NA
## weight:namechevrolet concours                                     NA       NA
## weight:namechevrolet impala                                       NaN      NaN
## weight:namechevrolet malibu                                       NA       NA
## weight:namechevrolet malibu classic (sw)                          NA       NA
## weight:namechevrolet monte carlo                                  NA       NA
## weight:namechevrolet monte carlo landau                           NA       NA
## weight:namechevrolet monte carlo s                                NA       NA
## weight:namechevrolet monza 2+2                                    NA       NA
## weight:namechevrolet nova                                         NaN      NaN
## weight:namechevrolet nova custom                                  NA       NA
## weight:namechevrolet vega                                         NaN      NaN
## weight:namechevrolet vega (sw)                                    NA       NA
## weight:namechevrolet vega 2300                                    NA       NA
## weight:namechevrolet woody                                        NA       NA
## weight:namechevy c10                                              NA       NA
## weight:namechevy c20                                              NA       NA
## weight:namechevy s-10                                             NA       NA
## weight:namechrysler cordoba                                       NA       NA
## weight:namechrysler lebaron medallion                             NA       NA
## weight:namechrysler lebaron salon                                 NA       NA
## weight:namechrysler lebaron town @ country (sw)                   NA       NA
## weight:namechrysler new yorker brougham                           NA       NA
## weight:namechrysler newport royal                                 NA       NA
## weight:namedatsun 1200                                            NA       NA
## weight:namedatsun 200-sx                                          NA       NA
## weight:namedatsun 200sx                                           NA       NA
## weight:namedatsun 210                                             NaN      NaN
## weight:namedatsun 210 mpg                                         NA       NA
## weight:namedatsun 280-zx                                          NA       NA
## weight:namedatsun 310                                             NA       NA
## weight:namedatsun 310 gx                                          NA       NA
## weight:namedatsun 510                                             NA       NA
## weight:namedatsun 510 (sw)                                        NA       NA
## weight:namedatsun 510 hatchback                                   NA       NA
## weight:namedatsun 610                                             NA       NA
## weight:namedatsun 710                                             NA       NA
## weight:namedatsun 810                                             NA       NA
## weight:namedatsun 810 maxima                                      NA       NA
## weight:namedatsun b-210                                           NA       NA
## weight:namedatsun b210                                            NA       NA
## weight:namedatsun b210 gx                                         NA       NA
## weight:namedatsun f-10 hatchback                                  NA       NA
## weight:namedatsun pl510                                           NA       NA
## weight:namedodge aries se                                         NA       NA
## weight:namedodge aries wagon (sw)                                 NA       NA
## weight:namedodge aspen                                            NA       NA
## weight:namedodge aspen 6                                          NA       NA
## weight:namedodge aspen se                                         NA       NA
```

```
## weight:namedodge challenger se              NA      NA
## weight:namedodge charger 2.2                NA      NA
## weight:namedodge colt                       NA      NA
## weight:namedodge colt (sw)                  NA      NA
## weight:namedodge colt hardtop               NA      NA
## weight:namedodge colt hatchback custom      NA      NA
## weight:namedodge colt m/m                   NA      NA
## weight:namedodge coronet brougham           NA      NA
## weight:namedodge coronet custom             NA      NA
## weight:namedodge coronet custom (sw)        NA      NA
## weight:namedodge d100                       NA      NA
## weight:namedodge d200                       NA      NA
## weight:namedodge dart custom                NA      NA
## weight:namedodge diplomat                   NA      NA
## weight:namedodge magnum xe                  NA      NA
## weight:namedodge monaco (sw)                NA      NA
## weight:namedodge monaco brougham            NA      NA
## weight:namedodge omni                       NA      NA
## weight:namedodge rampage                    NA      NA
## weight:namedodge st. regis                  NA      NA
## weight:namefiat 124 sport coupe             NA      NA
## weight:namefiat 124 tc                      NA      NA
## weight:namefiat 124b                        NA      NA
## weight:namefiat 128                         NA      NA
## weight:namefiat 131                         NA      NA
## weight:namefiat strada custom               NA      NA
## weight:namefiat x1.9                        NA      NA
## weight:nameford country                     NA      NA
## weight:nameford country squire (sw)         NA      NA
## weight:nameford escort 2h                   NA      NA
## weight:nameford escort 4w                   NA      NA
## weight:nameford f108                        NA      NA
## weight:nameford f250                        NA      NA
## weight:nameford fairmont                    NA      NA
## weight:nameford fairmont (auto)             NA      NA
## weight:nameford fairmont (man)              NA      NA
## weight:nameford fairmont 4                  NA      NA
## weight:nameford fairmont futura             NA      NA
## weight:nameford fiesta                      NA      NA
## weight:nameford futura                      NA      NA
## weight:nameford galaxie 500                 NaN     NaN
## weight:nameford gran torino                 NA      NA
## weight:nameford gran torino (sw)            NA      NA
## weight:nameford granada                     NA      NA
## weight:nameford granada ghia                NA      NA
## weight:nameford granada gl                  NA      NA
## weight:nameford granada l                   NA      NA
## weight:nameford ltd                         NA      NA
## weight:nameford ltd landau                  NA      NA
## weight:nameford maverick                    NA      NA
## weight:nameford mustang                     NA      NA
## weight:nameford mustang gl                  NA      NA
## weight:nameford mustang ii                  NA      NA
## weight:nameford mustang ii 2+2              NA      NA
## weight:nameford pinto                       NA      NA
## weight:nameford pinto (sw)                  NA      NA
## weight:nameford pinto runabout              NA      NA
## weight:nameford ranger                      NA      NA
## weight:nameford thunderbird                 NA      NA
## weight:nameford torino                      NA      NA
## weight:nameford torino 500                  NA      NA
## weight:namehi 1200d                         NA      NA
## weight:namehonda accord                     NA      NA
## weight:namehonda accord cvcc                NA      NA
## weight:namehonda accord lx                  NA      NA
## weight:namehonda civic                      NA      NA
## weight:namehonda civic (auto)               NA      NA
## weight:namehonda civic 1300                 NA      NA
## weight:namehonda civic 1500 gl              NA      NA
## weight:namehonda civic cvcc                 NA      NA
## weight:namehonda prelude                    NA      NA
## weight:namemaxda glc deluxe                 NA      NA
## weight:namemaxda rx3                        NA      NA
## weight:namemazda 626                        NA      NA
## weight:namemazda glc                        NA      NA
## weight:namemazda glc 4                      NA      NA
```

```
## weight:namemazda glc custom                               NA        NA
## weight:namemazda glc custom l                             NA        NA
## weight:namemazda glc deluxe                               NA        NA
## weight:namemazda rx-4                                     NA        NA
## weight:namemazda rx-7 gs                                  NA        NA
## weight:namemazda rx2 coupe                                NA        NA
## weight:namemercedes benz 300d                             NA        NA
## weight:namemercedes-benz 240d                             NA        NA
## weight:namemercedes-benz 280s                             NA        NA
## weight:namemercury capri 2000                             NA        NA
## weight:namemercury capri v6                               NA        NA
## weight:namemercury cougar brougham                        NA        NA
## weight:namemercury grand marquis                          NA        NA
## weight:namemercury lynx l                                 NA        NA
## weight:namemercury marquis                                NA        NA
## weight:namemercury marquis brougham                       NA        NA
## weight:namemercury monarch                                NA        NA
## weight:namemercury monarch ghia                           NA        NA
## weight:namemercury zephyr                                 NA        NA
## weight:namemercury zephyr 6                               NA        NA
## weight:namenissan stanza xe                               NA        NA
## weight:nameoldsmobile cutlass ciera (diesel)             NA        NA
## weight:nameoldsmobile cutlass ls                          NA        NA
## weight:nameoldsmobile cutlass salon brougham             NA        NA
## weight:nameoldsmobile cutlass supreme                     NA        NA
## weight:nameoldsmobile delta 88 royale                     NA        NA
## weight:nameoldsmobile omega                               NA        NA
## weight:nameoldsmobile omega brougham                      NA        NA
## weight:nameoldsmobile starfire sx                         NA        NA
## weight:nameoldsmobile vista cruiser                       NA        NA
## weight:nameopel 1900                                      NA        NA
## weight:nameopel manta                                     NA        NA
## weight:namepeugeot 304                                    NA        NA
## weight:namepeugeot 504                                    NA        NA
## weight:namepeugeot 504 (sw)                               NA        NA
## weight:namepeugeot 505s turbo diesel                      NA        NA
## weight:namepeugeot 604sl                                  NA        NA
## weight:nameplymouth 'cuda 340                             NA        NA
## weight:nameplymouth arrow gs                              NA        NA
## weight:nameplymouth champ                                 NA        NA
## weight:nameplymouth cricket                               NA        NA
## weight:nameplymouth custom suburb                         NA        NA
## weight:nameplymouth duster                                NA        NA
## weight:nameplymouth fury                                  NA        NA
## weight:nameplymouth fury gran sedan                       NA        NA
## weight:nameplymouth fury iii                              NA        NA
## weight:nameplymouth grand fury                            NA        NA
## weight:nameplymouth horizon                               NA        NA
## weight:nameplymouth horizon 4                             NA        NA
## weight:nameplymouth horizon miser                         NA        NA
## weight:nameplymouth horizon tc3                           NA        NA
## weight:nameplymouth reliant                               NA        NA
## weight:nameplymouth sapporo                               NA        NA
## weight:nameplymouth satellite                             NA        NA
## weight:nameplymouth satellite custom                      NA        NA
## weight:nameplymouth satellite custom (sw)                NA        NA
## weight:nameplymouth satellite sebring                     NA        NA
## weight:nameplymouth valiant                               NA        NA
## weight:nameplymouth valiant custom                        NA        NA
## weight:nameplymouth volare                                NA        NA
## weight:nameplymouth volare custom                         NA        NA
## weight:nameplymouth volare premier v8                     NA        NA
## weight:namepontiac astro                                  NA        NA
## weight:namepontiac catalina                               NA        NA
## weight:namepontiac catalina brougham                      NA        NA
## weight:namepontiac firebird                               NA        NA
## weight:namepontiac grand prix                             NA        NA
## weight:namepontiac grand prix lj                          NA        NA
## weight:namepontiac j2000 se hatchback                     NA        NA
## weight:namepontiac lemans v6                              NA        NA
## weight:namepontiac phoenix                                NA        NA
## weight:namepontiac phoenix lj                             NA        NA
## weight:namepontiac safari (sw)                            NA        NA
## weight:namepontiac sunbird coupe                          NA        NA
## weight:namepontiac ventura sj                             NA        NA
## weight:namerenault 12 (sw)                                NA        NA
```

```
## weight:namerenault 12tl                           NA        NA
## weight:namerenault 5 gtl                           NA        NA
## weight:namesaab 99e                                NA        NA
## weight:namesaab 99gle                              NA        NA
## weight:namesaab 99le                               NA        NA
## weight:namesubaru                                  NA        NA
## weight:namesubaru dl                               NA        NA
## weight:nametoyota carina                           NA        NA
## weight:nametoyota celica gt                        NA        NA
## weight:nametoyota celica gt liftback               NA        NA
## weight:nametoyota corolla                          NA        NA
## weight:nametoyota corolla 1200                     NA        NA
## weight:nametoyota corolla 1600 (sw)                NA        NA
## weight:nametoyota corolla liftback                 NA        NA
## weight:nametoyota corolla tercel                   NA        NA
## weight:nametoyota corona                           NA        NA
## weight:nametoyota corona hardtop                   NA        NA
## weight:nametoyota corona liftback                  NA        NA
## weight:nametoyota corona mark ii                   NA        NA
## weight:nametoyota cressida                         NA        NA
## weight:nametoyota mark ii                          NA        NA
## weight:nametoyota starlet                          NA        NA
## weight:nametoyota tercel                           NA        NA
## weight:nametoyouta corona mark ii (sw)             NA        NA
## weight:nametriumph tr7 coupe                       NA        NA
## weight:namevokswagen rabbit                        NA        NA
## weight:namevolkswagen 1131 deluxe sedan            NA        NA
## weight:namevolkswagen 411 (sw)                     NA        NA
## weight:namevolkswagen dasher                       NA        NA
## weight:namevolkswagen jetta                        NA        NA
## weight:namevolkswagen model 111                    NA        NA
## weight:namevolkswagen rabbit                       NA        NA
## weight:namevolkswagen rabbit custom                NA        NA
## weight:namevolkswagen rabbit custom diesel         NA        NA
## weight:namevolkswagen rabbit l                     NA        NA
## weight:namevolkswagen scirocco                     NA        NA
## weight:namevolkswagen super beetle                 NA        NA
## weight:namevolkswagen type 3                       NA        NA
## weight:namevolvo 144ea                             NA        NA
## weight:namevolvo 145e (sw)                         NA        NA
## weight:namevolvo 244dl                             NA        NA
## weight:namevolvo 245                               NA        NA
## weight:namevolvo 264gl                             NA        NA
## weight:namevolvo diesel                            NA        NA
## weight:namevw dasher (diesel)                      NA        NA
## weight:namevw pickup                               NA        NA
## weight:namevw rabbit                               NA        NA
## weight:namevw rabbit c (diesel)                    NA        NA
## weight:namevw rabbit custom                        NA        NA
## acceleration:year                                  NA        NA
## acceleration:origin                                NA        NA
## acceleration:nameamc ambassador dpl                NA        NA
## acceleration:nameamc ambassador sst                NA        NA
## acceleration:nameamc concord                       NA        NA
## acceleration:nameamc concord d/l                   NA        NA
## acceleration:nameamc concord dl 6                  NA        NA
## acceleration:nameamc gremlin                       NA        NA
## acceleration:nameamc hornet                        NA        NA
## acceleration:nameamc hornet sportabout (sw)        NA        NA
## acceleration:nameamc matador                       NA        NA
## acceleration:nameamc matador (sw)                  NA        NA
## acceleration:nameamc pacer                         NA        NA
## acceleration:nameamc pacer d/l                     NA        NA
## acceleration:nameamc rebel sst                     NA        NA
## acceleration:nameamc spirit dl                     NA        NA
## acceleration:nameaudi 100 ls                       NA        NA
## acceleration:nameaudi 100ls                        NA        NA
## acceleration:nameaudi 4000                         NA        NA
## acceleration:nameaudi 5000                         NA        NA
## acceleration:nameaudi 5000s (diesel)               NA        NA
## acceleration:nameaudi fox                          NA        NA
## acceleration:namebmw 2002                          NA        NA
## acceleration:namebmw 320i                          NA        NA
## acceleration:namebuick century                     NA        NA
## acceleration:namebuick century 350                 NA        NA
## acceleration:namebuick century limited             NA        NA
```

```
## acceleration:namebuick century luxus (sw)                    NA        NA
## acceleration:namebuick century special                       NA        NA
## acceleration:namebuick electra 225 custom                     NA        NA
## acceleration:namebuick estate wagon (sw)                      NA        NA
## acceleration:namebuick lesabre custom                         NA        NA
## acceleration:namebuick opel isuzu deluxe                      NA        NA
## acceleration:namebuick regal sport coupe (turbo)              NA        NA
## acceleration:namebuick skyhawk                                NA        NA
## acceleration:namebuick skylark                                NA        NA
## acceleration:namebuick skylark 320                            NA        NA
## acceleration:namebuick skylark limited                        NA        NA
## acceleration:namecadillac eldorado                            NA        NA
## acceleration:namecadillac seville                             NA        NA
## acceleration:namecapri ii                                     NA        NA
## acceleration:namechevroelt chevelle malibu                    NA        NA
## acceleration:namechevrolet bel air                            NA        NA
## acceleration:namechevrolet camaro                             NA        NA
## acceleration:namechevrolet caprice classic                    NA        NA
## acceleration:namechevrolet cavalier                           NA        NA
## acceleration:namechevrolet cavalier 2-door                    NA        NA
## acceleration:namechevrolet cavalier wagon                     NA        NA
## acceleration:namechevrolet chevelle concours (sw)             NA        NA
## acceleration:namechevrolet chevelle malibu                    NA        NA
## acceleration:namechevrolet chevelle malibu classic            NA        NA
## acceleration:namechevrolet chevette                           NA        NA
## acceleration:namechevrolet citation                           NA        NA
## acceleration:namechevrolet concours                           NA        NA
## acceleration:namechevrolet impala                             NA        NA
## acceleration:namechevrolet malibu                             NA        NA
## acceleration:namechevrolet malibu classic (sw)                NA        NA
## acceleration:namechevrolet monte carlo                        NA        NA
## acceleration:namechevrolet monte carlo landau                 NA        NA
## acceleration:namechevrolet monte carlo s                      NA        NA
## acceleration:namechevrolet monza 2+2                          NA        NA
## acceleration:namechevrolet nova                               NA        NA
## acceleration:namechevrolet nova custom                        NA        NA
## acceleration:namechevrolet vega                               NA        NA
## acceleration:namechevrolet vega (sw)                          NA        NA
## acceleration:namechevrolet vega 2300                          NA        NA
## acceleration:namechevrolet woody                              NA        NA
## acceleration:namechevy c10                                    NA        NA
## acceleration:namechevy c20                                    NA        NA
## acceleration:namechevy s-10                                   NA        NA
## acceleration:namechrysler cordoba                             NA        NA
## acceleration:namechrysler lebaron medallion                   NA        NA
## acceleration:namechrysler lebaron salon                       NA        NA
## acceleration:namechrysler lebaron town @ country (sw)         NA        NA
## acceleration:namechrysler new yorker brougham                 NA        NA
## acceleration:namechrysler newport royal                       NA        NA
## acceleration:namedatsun 1200                                  NA        NA
## acceleration:namedatsun 200-sx                                NA        NA
## acceleration:namedatsun 200sx                                 NA        NA
## acceleration:namedatsun 210                                   NA        NA
## acceleration:namedatsun 210 mpg                               NA        NA
## acceleration:namedatsun 280-zx                                NA        NA
## acceleration:namedatsun 310                                   NA        NA
## acceleration:namedatsun 310 gx                                NA        NA
## acceleration:namedatsun 510                                   NA        NA
## acceleration:namedatsun 510 (sw)                              NA        NA
## acceleration:namedatsun 510 hatchback                         NA        NA
## acceleration:namedatsun 610                                   NA        NA
## acceleration:namedatsun 710                                   NA        NA
## acceleration:namedatsun 810                                   NA        NA
## acceleration:namedatsun 810 maxima                            NA        NA
## acceleration:namedatsun b-210                                 NA        NA
## acceleration:namedatsun b210                                  NA        NA
## acceleration:namedatsun b210 gx                               NA        NA
## acceleration:namedatsun f-10 hatchback                        NA        NA
## acceleration:namedatsun pl510                                 NA        NA
## acceleration:namedodge aries se                               NA        NA
## acceleration:namedodge aries wagon (sw)                       NA        NA
## acceleration:namedodge aspen                                  NA        NA
## acceleration:namedodge aspen 6                                NA        NA
## acceleration:namedodge aspen se                               NA        NA
## acceleration:namedodge challenger se                          NA        NA
## acceleration:namedodge charger 2.2                            NA        NA
```

```
## acceleration:namedodge colt                       NA      NA
## acceleration:namedodge colt (sw)                  NA      NA
## acceleration:namedodge colt hardtop               NA      NA
## acceleration:namedodge colt hatchback custom      NA      NA
## acceleration:namedodge colt m/m                   NA      NA
## acceleration:namedodge coronet brougham           NA      NA
## acceleration:namedodge coronet custom             NA      NA
## acceleration:namedodge coronet custom (sw)        NA      NA
## acceleration:namedodge d100                       NA      NA
## acceleration:namedodge d200                       NA      NA
## acceleration:namedodge dart custom                NA      NA
## acceleration:namedodge diplomat                   NA      NA
## acceleration:namedodge magnum xe                  NA      NA
## acceleration:namedodge monaco (sw)                NA      NA
## acceleration:namedodge monaco brougham            NA      NA
## acceleration:namedodge omni                       NA      NA
## acceleration:namedodge rampage                    NA      NA
## acceleration:namedodge st. regis                  NA      NA
## acceleration:namefiat 124 sport coupe             NA      NA
## acceleration:namefiat 124 tc                      NA      NA
## acceleration:namefiat 124b                        NA      NA
## acceleration:namefiat 128                         NA      NA
## acceleration:namefiat 131                         NA      NA
## acceleration:namefiat strada custom               NA      NA
## acceleration:namefiat x1.9                        NA      NA
## acceleration:nameford country                     NA      NA
## acceleration:nameford country squire (sw)         NA      NA
## acceleration:nameford escort 2h                   NA      NA
## acceleration:nameford escort 4w                   NA      NA
## acceleration:nameford f108                        NA      NA
## acceleration:nameford f250                        NA      NA
## acceleration:nameford fairmont                    NA      NA
## acceleration:nameford fairmont (auto)             NA      NA
## acceleration:nameford fairmont (man)              NA      NA
## acceleration:nameford fairmont 4                  NA      NA
## acceleration:nameford fairmont futura             NA      NA
## acceleration:nameford fiesta                      NA      NA
## acceleration:nameford futura                      NA      NA
## acceleration:nameford galaxie 500                 NA      NA
## acceleration:nameford gran torino                 NA      NA
## acceleration:nameford gran torino (sw)            NA      NA
## acceleration:nameford granada                     NA      NA
## acceleration:nameford granada ghia                NA      NA
## acceleration:nameford granada gl                  NA      NA
## acceleration:nameford granada l                   NA      NA
## acceleration:nameford ltd                         NA      NA
## acceleration:nameford ltd landau                  NA      NA
## acceleration:nameford maverick                    NA      NA
## acceleration:nameford mustang                     NA      NA
## acceleration:nameford mustang gl                  NA      NA
## acceleration:nameford mustang ii                  NA      NA
## acceleration:nameford mustang ii 2+2              NA      NA
## acceleration:nameford pinto                       NA      NA
## acceleration:nameford pinto (sw)                  NA      NA
## acceleration:nameford pinto runabout              NA      NA
## acceleration:nameford ranger                      NA      NA
## acceleration:nameford thunderbird                 NA      NA
## acceleration:nameford torino                      NA      NA
## acceleration:nameford torino 500                  NA      NA
## acceleration:namehi 1200d                         NA      NA
## acceleration:namehonda accord                     NA      NA
## acceleration:namehonda accord cvcc                NA      NA
## acceleration:namehonda accord lx                  NA      NA
## acceleration:namehonda civic                      NA      NA
## acceleration:namehonda civic (auto)               NA      NA
## acceleration:namehonda civic 1300                 NA      NA
## acceleration:namehonda civic 1500 gl              NA      NA
## acceleration:namehonda civic cvcc                 NA      NA
## acceleration:namehonda prelude                    NA      NA
## acceleration:namemaxda glc deluxe                 NA      NA
## acceleration:namemaxda rx3                        NA      NA
## acceleration:namemazda 626                        NA      NA
## acceleration:namemazda glc                        NA      NA
## acceleration:namemazda glc 4                      NA      NA
## acceleration:namemazda glc custom                 NA      NA
## acceleration:namemazda glc custom l               NA      NA
```

```
## acceleration:namemazda glc deluxe                          NA      NA
## acceleration:namemazda rx-4                                 NA      NA
## acceleration:namemazda rx-7 gs                              NA      NA
## acceleration:namemazda rx2 coupe                            NA      NA
## acceleration:namemercedes benz 300d                         NA      NA
## acceleration:namemercedes-benz 240d                         NA      NA
## acceleration:namemercedes-benz 280s                         NA      NA
## acceleration:namemercury capri 2000                         NA      NA
## acceleration:namemercury capri v6                           NA      NA
## acceleration:namemercury cougar brougham                    NA      NA
## acceleration:namemercury grand marquis                      NA      NA
## acceleration:namemercury lynx l                             NA      NA
## acceleration:namemercury marquis                            NA      NA
## acceleration:namemercury marquis brougham                   NA      NA
## acceleration:namemercury monarch                            NA      NA
## acceleration:namemercury monarch ghia                       NA      NA
## acceleration:namemercury zephyr                             NA      NA
## acceleration:namemercury zephyr 6                           NA      NA
## acceleration:namenissan stanza xe                           NA      NA
## acceleration:nameoldsmobile cutlass ciera (diesel)          NA      NA
## acceleration:nameoldsmobile cutlass ls                      NA      NA
## acceleration:nameoldsmobile cutlass salon brougham          NA      NA
## acceleration:nameoldsmobile cutlass supreme                 NA      NA
## acceleration:nameoldsmobile delta 88 royale                 NA      NA
## acceleration:nameoldsmobile omega                           NA      NA
## acceleration:nameoldsmobile omega brougham                  NA      NA
## acceleration:nameoldsmobile starfire sx                     NA      NA
## acceleration:nameoldsmobile vista cruiser                   NA      NA
## acceleration:nameopel 1900                                  NA      NA
## acceleration:nameopel manta                                 NA      NA
## acceleration:namepeugeot 304                                NA      NA
## acceleration:namepeugeot 504                                NA      NA
## acceleration:namepeugeot 504 (sw)                           NA      NA
## acceleration:namepeugeot 505s turbo diesel                  NA      NA
## acceleration:namepeugeot 604sl                              NA      NA
## acceleration:nameplymouth 'cuda 340                         NA      NA
## acceleration:nameplymouth arrow gs                          NA      NA
## acceleration:nameplymouth champ                             NA      NA
## acceleration:nameplymouth cricket                           NA      NA
## acceleration:nameplymouth custom suburb                     NA      NA
## acceleration:nameplymouth duster                            NA      NA
## acceleration:nameplymouth fury                              NA      NA
## acceleration:nameplymouth fury gran sedan                   NA      NA
## acceleration:nameplymouth fury iii                          NA      NA
## acceleration:nameplymouth grand fury                        NA      NA
## acceleration:nameplymouth horizon                           NA      NA
## acceleration:nameplymouth horizon 4                         NA      NA
## acceleration:nameplymouth horizon miser                     NA      NA
## acceleration:nameplymouth horizon tc3                       NA      NA
## acceleration:nameplymouth reliant                           NA      NA
## acceleration:nameplymouth sapporo                           NA      NA
## acceleration:nameplymouth satellite                         NA      NA
## acceleration:nameplymouth satellite custom                  NA      NA
## acceleration:nameplymouth satellite custom (sw)             NA      NA
## acceleration:nameplymouth satellite sebring                 NA      NA
## acceleration:nameplymouth valiant                           NA      NA
## acceleration:nameplymouth valiant custom                    NA      NA
## acceleration:nameplymouth volare                            NA      NA
## acceleration:nameplymouth volare custom                     NA      NA
## acceleration:nameplymouth volare premier v8                 NA      NA
## acceleration:namepontiac astro                              NA      NA
## acceleration:namepontiac catalina                           NA      NA
## acceleration:namepontiac catalina brougham                  NA      NA
## acceleration:namepontiac firebird                           NA      NA
## acceleration:namepontiac grand prix                         NA      NA
## acceleration:namepontiac grand prix lj                      NA      NA
## acceleration:namepontiac j2000 se hatchback                 NA      NA
## acceleration:namepontiac lemans v6                          NA      NA
## acceleration:namepontiac phoenix                            NA      NA
## acceleration:namepontiac phoenix lj                         NA      NA
## acceleration:namepontiac safari (sw)                        NA      NA
## acceleration:namepontiac sunbird coupe                      NA      NA
## acceleration:namepontiac ventura sj                         NA      NA
## acceleration:namerenault 12 (sw)                            NA      NA
## acceleration:namerenault 12tl                               NA      NA
## acceleration:namerenault 5 gtl                              NA      NA
```

```
## acceleration:namesaab 99e                                   NA        NA
## acceleration:namesaab 99gle                                 NA        NA
## acceleration:namesaab 99le                                  NA        NA
## acceleration:namesubaru                                     NA        NA
## acceleration:namesubaru dl                                  NA        NA
## acceleration:nametoyota carina                              NA        NA
## acceleration:nametoyota celica gt                           NA        NA
## acceleration:nametoyota celica gt liftback                  NA        NA
## acceleration:nametoyota corolla                             NA        NA
## acceleration:nametoyota corolla 1200                        NA        NA
## acceleration:nametoyota corolla 1600 (sw)                   NA        NA
## acceleration:nametoyota corolla liftback                    NA        NA
## acceleration:nametoyota corolla tercel                      NA        NA
## acceleration:nametoyota corona                              NA        NA
## acceleration:nametoyota corona hardtop                      NA        NA
## acceleration:nametoyota corona liftback                     NA        NA
## acceleration:nametoyota corona mark ii                      NA        NA
## acceleration:nametoyota cressida                            NA        NA
## acceleration:nametoyota mark ii                             NA        NA
## acceleration:nametoyota starlet                             NA        NA
## acceleration:nametoyota tercel                              NA        NA
## acceleration:nametoyouta corona mark ii (sw)                NA        NA
## acceleration:nametriumph tr7 coupe                          NA        NA
## acceleration:namevokswagen rabbit                           NA        NA
## acceleration:namevolkswagen 1131 deluxe sedan               NA        NA
## acceleration:namevolkswagen 411 (sw)                        NA        NA
## acceleration:namevolkswagen dasher                          NA        NA
## acceleration:namevolkswagen jetta                           NA        NA
## acceleration:namevolkswagen model 111                       NA        NA
## acceleration:namevolkswagen rabbit                          NA        NA
## acceleration:namevolkswagen rabbit custom                   NA        NA
## acceleration:namevolkswagen rabbit custom diesel            NA        NA
## acceleration:namevolkswagen rabbit l                        NA        NA
## acceleration:namevolkswagen scirocco                        NA        NA
## acceleration:namevolkswagen super beetle                    NA        NA
## acceleration:namevolkswagen type 3                          NA        NA
## acceleration:namevolvo 144ea                                NA        NA
## acceleration:namevolvo 145e (sw)                            NA        NA
## acceleration:namevolvo 244dl                                NA        NA
## acceleration:namevolvo 245                                  NA        NA
## acceleration:namevolvo 264gl                                NA        NA
## acceleration:namevolvo diesel                               NA        NA
## acceleration:namevw dasher (diesel)                         NA        NA
## acceleration:namevw pickup                                  NA        NA
## acceleration:namevw rabbit                                  NA        NA
## acceleration:namevw rabbit c (diesel)                       NA        NA
## acceleration:namevw rabbit custom                           NA        NA
## year:origin                                                 NA        NA
## year:nameamc ambassador dpl                                 NA        NA
## year:nameamc ambassador sst                                 NA        NA
## year:nameamc concord                                        NA        NA
## year:nameamc concord d/l                                    NA        NA
## year:nameamc concord dl 6                                   NA        NA
## year:nameamc gremlin                                        NA        NA
## year:nameamc hornet                                         NA        NA
## year:nameamc hornet sportabout (sw)                         NA        NA
## year:nameamc matador                                        NA        NA
## year:nameamc matador (sw)                                   NA        NA
## year:nameamc pacer                                          NA        NA
## year:nameamc pacer d/l                                      NA        NA
## year:nameamc rebel sst                                      NA        NA
## year:nameamc spirit dl                                      NA        NA
## year:nameaudi 100 ls                                        NA        NA
## year:nameaudi 100ls                                         NA        NA
## year:nameaudi 4000                                          NA        NA
## year:nameaudi 5000                                          NA        NA
## year:nameaudi 5000s (diesel)                                NA        NA
## year:nameaudi fox                                           NA        NA
## year:namebmw 2002                                           NA        NA
## year:namebmw 320i                                           NA        NA
## year:namebuick century                                      NA        NA
## year:namebuick century 350                                  NA        NA
## year:namebuick century limited                              NA        NA
## year:namebuick century luxus (sw)                           NA        NA
## year:namebuick century special                              NA        NA
## year:namebuick electra 225 custom                           NA        NA
```

```
## year:namebuick estate wagon (sw)                          NA        NA
## year:namebuick lesabre custom                             NA        NA
## year:namebuick opel isuzu deluxe                          NA        NA
## year:namebuick regal sport coupe (turbo)                  NA        NA
## year:namebuick skyhawk                                    NA        NA
## year:namebuick skylark                                    NA        NA
## year:namebuick skylark 320                                NA        NA
## year:namebuick skylark limited                            NA        NA
## year:namecadillac eldorado                                NA        NA
## year:namecadillac seville                                 NA        NA
## year:namecapri ii                                         NA        NA
## year:namechevroelt chevelle malibu                        NA        NA
## year:namechevrolet bel air                                NA        NA
## year:namechevrolet camaro                                 NA        NA
## year:namechevrolet caprice classic                        NA        NA
## year:namechevrolet cavalier                               NA        NA
## year:namechevrolet cavalier 2-door                        NA        NA
## year:namechevrolet cavalier wagon                         NA        NA
## year:namechevrolet chevelle concours (sw)                 NA        NA
## year:namechevrolet chevelle malibu                        NA        NA
## year:namechevrolet chevelle malibu classic                NA        NA
## year:namechevrolet chevette                               NA        NA
## year:namechevrolet citation                               NA        NA
## year:namechevrolet concours                               NA        NA
## year:namechevrolet impala                                 NA        NA
## year:namechevrolet malibu                                 NA        NA
## year:namechevrolet malibu classic (sw)                    NA        NA
## year:namechevrolet monte carlo                            NA        NA
## year:namechevrolet monte carlo landau                     NA        NA
## year:namechevrolet monte carlo s                          NA        NA
## year:namechevrolet monza 2+2                              NA        NA
## year:namechevrolet nova                                   NA        NA
## year:namechevrolet nova custom                            NA        NA
## year:namechevrolet vega                                   NA        NA
## year:namechevrolet vega (sw)                              NA        NA
## year:namechevrolet vega 2300                              NA        NA
## year:namechevrolet woody                                  NA        NA
## year:namechevy c10                                        NA        NA
## year:namechevy c20                                        NA        NA
## year:namechevy s-10                                       NA        NA
## year:namechrysler cordoba                                 NA        NA
## year:namechrysler lebaron medallion                       NA        NA
## year:namechrysler lebaron salon                           NA        NA
## year:namechrysler lebaron town @ country (sw)             NA        NA
## year:namechrysler new yorker brougham                     NA        NA
## year:namechrysler newport royal                           NA        NA
## year:namedatsun 1200                                      NA        NA
## year:namedatsun 200-sx                                    NA        NA
## year:namedatsun 200sx                                     NA        NA
## year:namedatsun 210                                       NA        NA
## year:namedatsun 210 mpg                                   NA        NA
## year:namedatsun 280-zx                                    NA        NA
## year:namedatsun 310                                       NA        NA
## year:namedatsun 310 gx                                    NA        NA
## year:namedatsun 510                                       NA        NA
## year:namedatsun 510 (sw)                                  NA        NA
## year:namedatsun 510 hatchback                             NA        NA
## year:namedatsun 610                                       NA        NA
## year:namedatsun 710                                       NA        NA
## year:namedatsun 810                                       NA        NA
## year:namedatsun 810 maxima                                NA        NA
## year:namedatsun b-210                                     NA        NA
## year:namedatsun b210                                      NA        NA
## year:namedatsun b210 gx                                   NA        NA
## year:namedatsun f-10 hatchback                            NA        NA
## year:namedatsun pl510                                     NA        NA
## year:namedodge aries se                                   NA        NA
## year:namedodge aries wagon (sw)                           NA        NA
## year:namedodge aspen                                      NA        NA
## year:namedodge aspen 6                                    NA        NA
## year:namedodge aspen se                                   NA        NA
## year:namedodge challenger se                              NA        NA
## year:namedodge charger 2.2                                NA        NA
## year:namedodge colt                                       NA        NA
## year:namedodge colt (sw)                                  NA        NA
## year:namedodge colt hardtop                               NA        NA
```

```
## year:namedodge colt hatchback custom                    NA        NA
## year:namedodge colt m/m                                 NA        NA
## year:namedodge coronet brougham                         NA        NA
## year:namedodge coronet custom                           NA        NA
## year:namedodge coronet custom (sw)                      NA        NA
## year:namedodge d100                                     NA        NA
## year:namedodge d200                                     NA        NA
## year:namedodge dart custom                              NA        NA
## year:namedodge diplomat                                 NA        NA
## year:namedodge magnum xe                                NA        NA
## year:namedodge monaco (sw)                              NA        NA
## year:namedodge monaco brougham                          NA        NA
## year:namedodge omni                                     NA        NA
## year:namedodge rampage                                  NA        NA
## year:namedodge st. regis                                NA        NA
## year:namefiat 124 sport coupe                           NA        NA
## year:namefiat 124 tc                                    NA        NA
## year:namefiat 124b                                      NA        NA
## year:namefiat 128                                       NA        NA
## year:namefiat 131                                       NA        NA
## year:namefiat strada custom                             NA        NA
## year:namefiat x1.9                                      NA        NA
## year:nameford country                                  NA        NA
## year:nameford country squire (sw)                      NA        NA
## year:nameford escort 2h                                 NA        NA
## year:nameford escort 4w                                 NA        NA
## year:nameford f108                                      NA        NA
## year:nameford f250                                      NA        NA
## year:nameford fairmont                                 NA        NA
## year:nameford fairmont (auto)                          NA        NA
## year:nameford fairmont (man)                           NA        NA
## year:nameford fairmont 4                               NA        NA
## year:nameford fairmont futura                          NA        NA
## year:nameford fiesta                                   NA        NA
## year:nameford futura                                   NA        NA
## year:nameford galaxie 500                              NA        NA
## year:nameford gran torino                              NA        NA
## year:nameford gran torino (sw)                         NA        NA
## year:nameford granada                                  NA        NA
## year:nameford granada ghia                             NA        NA
## year:nameford granada gl                               NA        NA
## year:nameford granada l                                NA        NA
## year:nameford ltd                                      NA        NA
## year:nameford ltd landau                               NA        NA
## year:nameford maverick                                 NA        NA
## year:nameford mustang                                  NA        NA
## year:nameford mustang gl                               NA        NA
## year:nameford mustang ii                               NA        NA
## year:nameford mustang ii 2+2                           NA        NA
## year:nameford pinto                                    NA        NA
## year:nameford pinto (sw)                               NA        NA
## year:nameford pinto runabout                           NA        NA
## year:nameford ranger                                   NA        NA
## year:nameford thunderbird                              NA        NA
## year:nameford torino                                   NA        NA
## year:nameford torino 500                               NA        NA
## year:namehi 1200d                                      NA        NA
## year:namehonda accord                                  NA        NA
## year:namehonda accord cvcc                             NA        NA
## year:namehonda accord lx                               NA        NA
## year:namehonda civic                                   NA        NA
## year:namehonda civic (auto)                            NA        NA
## year:namehonda civic 1300                              NA        NA
## year:namehonda civic 1500 gl                           NA        NA
## year:namehonda civic cvcc                              NA        NA
## year:namehonda prelude                                 NA        NA
## year:namemaxda glc deluxe                              NA        NA
## year:namemaxda rx3                                     NA        NA
## year:namemazda 626                                     NA        NA
## year:namemazda glc                                     NA        NA
## year:namemazda glc 4                                   NA        NA
## year:namemazda glc custom                              NA        NA
## year:namemazda glc custom l                            NA        NA
## year:namemazda glc deluxe                              NA        NA
## year:namemazda rx-4                                    NA        NA
## year:namemazda rx-7 gs                                 NA        NA
```

```
## year:namemazda rx2 coupe                          NA      NA
## year:namemercedes benz 300d                       NA      NA
## year:namemercedes-benz 240d                       NA      NA
## year:namemercedes-benz 280s                       NA      NA
## year:namemercury capri 2000                       NA      NA
## year:namemercury capri v6                         NA      NA
## year:namemercury cougar brougham                  NA      NA
## year:namemercury grand marquis                    NA      NA
## year:namemercury lynx l                           NA      NA
## year:namemercury marquis                          NA      NA
## year:namemercury marquis brougham                 NA      NA
## year:namemercury monarch                          NA      NA
## year:namemercury monarch ghia                     NA      NA
## year:namemercury zephyr                           NA      NA
## year:namemercury zephyr 6                         NA      NA
## year:namenissan stanza xe                         NA      NA
## year:nameoldsmobile cutlass ciera (diesel)        NA      NA
## year:nameoldsmobile cutlass ls                    NA      NA
## year:nameoldsmobile cutlass salon brougham        NA      NA
## year:nameoldsmobile cutlass supreme               NA      NA
## year:nameoldsmobile delta 88 royale               NA      NA
## year:nameoldsmobile omega                         NA      NA
## year:nameoldsmobile omega brougham                NA      NA
## year:nameoldsmobile starfire sx                   NA      NA
## year:nameoldsmobile vista cruiser                 NA      NA
## year:nameopel 1900                                NA      NA
## year:nameopel manta                               NA      NA
## year:namepeugeot 304                              NA      NA
## year:namepeugeot 504                              NA      NA
## year:namepeugeot 504 (sw)                         NA      NA
## year:namepeugeot 505s turbo diesel                NA      NA
## year:namepeugeot 604sl                            NA      NA
## year:nameplymouth 'cuda 340                       NA      NA
## year:nameplymouth arrow gs                        NA      NA
## year:nameplymouth champ                           NA      NA
## year:nameplymouth cricket                         NA      NA
## year:nameplymouth custom suburb                   NA      NA
## year:nameplymouth duster                          NA      NA
## year:nameplymouth fury                            NA      NA
## year:nameplymouth fury gran sedan                 NA      NA
## year:nameplymouth fury iii                        NA      NA
## year:nameplymouth grand fury                      NA      NA
## year:nameplymouth horizon                         NA      NA
## year:nameplymouth horizon 4                       NA      NA
## year:nameplymouth horizon miser                   NA      NA
## year:nameplymouth horizon tc3                     NA      NA
## year:nameplymouth reliant                         NA      NA
## year:nameplymouth sapporo                         NA      NA
## year:nameplymouth satellite                       NA      NA
## year:nameplymouth satellite custom                NA      NA
## year:nameplymouth satellite custom (sw)           NA      NA
## year:nameplymouth satellite sebring               NA      NA
## year:nameplymouth valiant                         NA      NA
## year:nameplymouth valiant custom                  NA      NA
## year:nameplymouth volare                          NA      NA
## year:nameplymouth volare custom                   NA      NA
## year:nameplymouth volare premier v8               NA      NA
## year:namepontiac astro                            NA      NA
## year:namepontiac catalina                         NA      NA
## year:namepontiac catalina brougham                NA      NA
## year:namepontiac firebird                         NA      NA
## year:namepontiac grand prix                       NA      NA
## year:namepontiac grand prix lj                    NA      NA
## year:namepontiac j2000 se hatchback               NA      NA
## year:namepontiac lemans v6                        NA      NA
## year:namepontiac phoenix                          NA      NA
## year:namepontiac phoenix lj                       NA      NA
## year:namepontiac safari (sw)                      NA      NA
## year:namepontiac sunbird coupe                    NA      NA
## year:namepontiac ventura sj                       NA      NA
## year:namerenault 12 (sw)                          NA      NA
## year:namerenault 12tl                             NA      NA
## year:namerenault 5 gtl                            NA      NA
## year:namesaab 99e                                 NA      NA
## year:namesaab 99gle                               NA      NA
## year:namesaab 99le                                NA      NA
```

```
## year:namesubaru                               NA        NA
## year:namesubaru dl                            NA        NA
## year:nametoyota carina                        NA        NA
## year:nametoyota celica gt                     NA        NA
## year:nametoyota celica gt liftback            NA        NA
## year:nametoyota corolla                       NA        NA
## year:nametoyota corolla 1200                  NA        NA
## year:nametoyota corolla 1600 (sw)             NA        NA
## year:nametoyota corolla liftback              NA        NA
## year:nametoyota corolla tercel                NA        NA
## year:nametoyota corona                        NA        NA
## year:nametoyota corona hardtop                NA        NA
## year:nametoyota corona liftback               NA        NA
## year:nametoyota corona mark ii                NA        NA
## year:nametoyota cressida                      NA        NA
## year:nametoyota mark ii                       NA        NA
## year:nametoyota starlet                       NA        NA
## year:nametoyota tercel                        NA        NA
## year:nametoyouta corona mark ii (sw)          NA        NA
## year:nametriumph tr7 coupe                    NA        NA
## year:namevokswagen rabbit                     NA        NA
## year:namevolkswagen 1131 deluxe sedan         NA        NA
## year:namevolkswagen 411 (sw)                  NA        NA
## year:namevolkswagen dasher                    NA        NA
## year:namevolkswagen jetta                     NA        NA
## year:namevolkswagen model 111                 NA        NA
## year:namevolkswagen rabbit                    NA        NA
## year:namevolkswagen rabbit custom             NA        NA
## year:namevolkswagen rabbit custom diesel      NA        NA
## year:namevolkswagen rabbit l                  NA        NA
## year:namevolkswagen scirocco                  NA        NA
## year:namevolkswagen super beetle              NA        NA
## year:namevolkswagen type 3                    NA        NA
## year:namevolvo 144ea                          NA        NA
## year:namevolvo 145e (sw)                      NA        NA
## year:namevolvo 244dl                          NA        NA
## year:namevolvo 245                            NA        NA
## year:namevolvo 264gl                          NA        NA
## year:namevolvo diesel                         NA        NA
## year:namevw dasher (diesel)                   NA        NA
## year:namevw pickup                            NA        NA
## year:namevw rabbit                            NA        NA
## year:namevw rabbit c (diesel)                 NA        NA
## year:namevw rabbit custom                     NA        NA
## origin:nameamc ambassador dpl                 NA        NA
## origin:nameamc ambassador sst                 NA        NA
## origin:nameamc concord                        NA        NA
## origin:nameamc concord d/l                    NA        NA
## origin:nameamc concord dl 6                   NA        NA
## origin:nameamc gremlin                        NA        NA
## origin:nameamc hornet                         NA        NA
## origin:nameamc hornet sportabout (sw)         NA        NA
## origin:nameamc matador                        NA        NA
## origin:nameamc matador (sw)                   NA        NA
## origin:nameamc pacer                          NA        NA
## origin:nameamc pacer d/l                      NA        NA
## origin:nameamc rebel sst                      NA        NA
## origin:nameamc spirit dl                      NA        NA
## origin:nameaudi 100 ls                        NA        NA
## origin:nameaudi 100ls                         NA        NA
## origin:nameaudi 4000                          NA        NA
## origin:nameaudi 5000                          NA        NA
## origin:nameaudi 5000s (diesel)                NA        NA
## origin:nameaudi fox                           NA        NA
## origin:namebmw 2002                           NA        NA
## origin:namebmw 320i                           NA        NA
## origin:namebuick century                      NA        NA
## origin:namebuick century 350                  NA        NA
## origin:namebuick century limited              NA        NA
## origin:namebuick century luxus (sw)           NA        NA
## origin:namebuick century special              NA        NA
## origin:namebuick electra 225 custom           NA        NA
## origin:namebuick estate wagon (sw)            NA        NA
## origin:namebuick lesabre custom               NA        NA
## origin:namebuick opel isuzu deluxe            NA        NA
## origin:namebuick regal sport coupe (turbo)    NA        NA
```

```
## origin:namebuick skyhawk                                NA      NA
## origin:namebuick skylark                                NA      NA
## origin:namebuick skylark 320                            NA      NA
## origin:namebuick skylark limited                        NA      NA
## origin:namecadillac eldorado                            NA      NA
## origin:namecadillac seville                             NA      NA
## origin:namecapri ii                                     NA      NA
## origin:namechevroelt chevelle malibu                    NA      NA
## origin:namechevrolet bel air                            NA      NA
## origin:namechevrolet camaro                             NA      NA
## origin:namechevrolet caprice classic                    NA      NA
## origin:namechevrolet cavalier                           NA      NA
## origin:namechevrolet cavalier 2-door                    NA      NA
## origin:namechevrolet cavalier wagon                     NA      NA
## origin:namechevrolet chevelle concours (sw)             NA      NA
## origin:namechevrolet chevelle malibu                    NA      NA
## origin:namechevrolet chevelle malibu classic            NA      NA
## origin:namechevrolet chevette                           NA      NA
## origin:namechevrolet citation                           NA      NA
## origin:namechevrolet concours                           NA      NA
## origin:namechevrolet impala                             NA      NA
## origin:namechevrolet malibu                             NA      NA
## origin:namechevrolet malibu classic (sw)                NA      NA
## origin:namechevrolet monte carlo                        NA      NA
## origin:namechevrolet monte carlo landau                 NA      NA
## origin:namechevrolet monte carlo s                      NA      NA
## origin:namechevrolet monza 2+2                          NA      NA
## origin:namechevrolet nova                               NA      NA
## origin:namechevrolet nova custom                        NA      NA
## origin:namechevrolet vega                               NA      NA
## origin:namechevrolet vega (sw)                          NA      NA
## origin:namechevrolet vega 2300                          NA      NA
## origin:namechevrolet woody                              NA      NA
## origin:namechevy c10                                    NA      NA
## origin:namechevy c20                                    NA      NA
## origin:namechevy s-10                                   NA      NA
## origin:namechrysler cordoba                             NA      NA
## origin:namechrysler lebaron medallion                   NA      NA
## origin:namechrysler lebaron salon                       NA      NA
## origin:namechrysler lebaron town @ country (sw)         NA      NA
## origin:namechrysler new yorker brougham                 NA      NA
## origin:namechrysler newport royal                       NA      NA
## origin:namedatsun 1200                                  NA      NA
## origin:namedatsun 200-sx                                NA      NA
## origin:namedatsun 200sx                                 NA      NA
## origin:namedatsun 210                                   NA      NA
## origin:namedatsun 210 mpg                               NA      NA
## origin:namedatsun 280-zx                                NA      NA
## origin:namedatsun 310                                   NA      NA
## origin:namedatsun 310 gx                                NA      NA
## origin:namedatsun 510                                   NA      NA
## origin:namedatsun 510 (sw)                              NA      NA
## origin:namedatsun 510 hatchback                         NA      NA
## origin:namedatsun 610                                   NA      NA
## origin:namedatsun 710                                   NA      NA
## origin:namedatsun 810                                   NA      NA
## origin:namedatsun 810 maxima                            NA      NA
## origin:namedatsun b-210                                 NA      NA
## origin:namedatsun b210                                  NA      NA
## origin:namedatsun b210 gx                               NA      NA
## origin:namedatsun f-10 hatchback                        NA      NA
## origin:namedatsun pl510                                 NA      NA
## origin:namedodge aries se                               NA      NA
## origin:namedodge aries wagon (sw)                       NA      NA
## origin:namedodge aspen                                  NA      NA
## origin:namedodge aspen 6                                NA      NA
## origin:namedodge aspen se                               NA      NA
## origin:namedodge challenger se                          NA      NA
## origin:namedodge charger 2.2                            NA      NA
## origin:namedodge colt                                   NA      NA
## origin:namedodge colt (sw)                              NA      NA
## origin:namedodge colt hardtop                           NA      NA
## origin:namedodge colt hatchback custom                  NA      NA
## origin:namedodge colt m/m                               NA      NA
## origin:namedodge coronet brougham                       NA      NA
## origin:namedodge coronet custom                         NA      NA
```

```
## origin:namedodge coronet custom (sw)                      NA        NA
## origin:namedodge d100                                      NA        NA
## origin:namedodge d200                                      NA        NA
## origin:namedodge dart custom                               NA        NA
## origin:namedodge diplomat                                  NA        NA
## origin:namedodge magnum xe                                 NA        NA
## origin:namedodge monaco (sw)                               NA        NA
## origin:namedodge monaco brougham                           NA        NA
## origin:namedodge omni                                      NA        NA
## origin:namedodge rampage                                   NA        NA
## origin:namedodge st. regis                                 NA        NA
## origin:namefiat 124 sport coupe                            NA        NA
## origin:namefiat 124 tc                                     NA        NA
## origin:namefiat 124b                                       NA        NA
## origin:namefiat 128                                        NA        NA
## origin:namefiat 131                                        NA        NA
## origin:namefiat strada custom                              NA        NA
## origin:namefiat x1.9                                       NA        NA
## origin:nameford country                                    NA        NA
## origin:nameford country squire (sw)                        NA        NA
## origin:nameford escort 2h                                  NA        NA
## origin:nameford escort 4w                                  NA        NA
## origin:nameford f108                                       NA        NA
## origin:nameford f250                                       NA        NA
## origin:nameford fairmont                                   NA        NA
## origin:nameford fairmont (auto)                            NA        NA
## origin:nameford fairmont (man)                             NA        NA
## origin:nameford fairmont 4                                 NA        NA
## origin:nameford fairmont futura                            NA        NA
## origin:nameford fiesta                                     NA        NA
## origin:nameford futura                                     NA        NA
## origin:nameford galaxie 500                                NA        NA
## origin:nameford gran torino                                NA        NA
## origin:nameford gran torino (sw)                           NA        NA
## origin:nameford granada                                    NA        NA
## origin:nameford granada ghia                               NA        NA
## origin:nameford granada gl                                 NA        NA
## origin:nameford granada l                                  NA        NA
## origin:nameford ltd                                        NA        NA
## origin:nameford ltd landau                                 NA        NA
## origin:nameford maverick                                   NA        NA
## origin:nameford mustang                                    NA        NA
## origin:nameford mustang gl                                 NA        NA
## origin:nameford mustang ii                                 NA        NA
## origin:nameford mustang ii 2+2                             NA        NA
## origin:nameford pinto                                      NA        NA
## origin:nameford pinto (sw)                                 NA        NA
## origin:nameford pinto runabout                             NA        NA
## origin:nameford ranger                                     NA        NA
## origin:nameford thunderbird                                NA        NA
## origin:nameford torino                                     NA        NA
## origin:nameford torino 500                                 NA        NA
## origin:namehi 1200d                                        NA        NA
## origin:namehonda accord                                    NA        NA
## origin:namehonda accord cvcc                               NA        NA
## origin:namehonda accord lx                                 NA        NA
## origin:namehonda civic                                     NA        NA
## origin:namehonda civic (auto)                              NA        NA
## origin:namehonda civic 1300                                NA        NA
## origin:namehonda civic 1500 gl                             NA        NA
## origin:namehonda civic cvcc                                NA        NA
## origin:namehonda prelude                                   NA        NA
## origin:namemaxda glc deluxe                                NA        NA
## origin:namemaxda rx3                                       NA        NA
## origin:namemazda 626                                       NA        NA
## origin:namemazda glc                                       NA        NA
## origin:namemazda glc 4                                     NA        NA
## origin:namemazda glc custom                                NA        NA
## origin:namemazda glc custom l                              NA        NA
## origin:namemazda glc deluxe                                NA        NA
## origin:namemazda rx-4                                      NA        NA
## origin:namemazda rx-7 gs                                   NA        NA
## origin:namemazda rx2 coupe                                 NA        NA
## origin:namemercedes benz 300d                              NA        NA
## origin:namemercedes-benz 240d                              NA        NA
## origin:namemercedes-benz 280s                              NA        NA
```

```
## origin:namemercury capri 2000                          NA        NA
## origin:namemercury capri v6                            NA        NA
## origin:namemercury cougar brougham                     NA        NA
## origin:namemercury grand marquis                       NA        NA
## origin:namemercury lynx l                              NA        NA
## origin:namemercury marquis                             NA        NA
## origin:namemercury marquis brougham                    NA        NA
## origin:namemercury monarch                             NA        NA
## origin:namemercury monarch ghia                        NA        NA
## origin:namemercury zephyr                              NA        NA
## origin:namemercury zephyr 6                            NA        NA
## origin:namenissan stanza xe                            NA        NA
## origin:nameoldsmobile cutlass ciera (diesel)           NA        NA
## origin:nameoldsmobile cutlass ls                       NA        NA
## origin:nameoldsmobile cutlass salon brougham           NA        NA
## origin:nameoldsmobile cutlass supreme                  NA        NA
## origin:nameoldsmobile delta 88 royale                  NA        NA
## origin:nameoldsmobile omega                            NA        NA
## origin:nameoldsmobile omega brougham                   NA        NA
## origin:nameoldsmobile starfire sx                      NA        NA
## origin:nameoldsmobile vista cruiser                    NA        NA
## origin:nameopel 1900                                   NA        NA
## origin:nameopel manta                                  NA        NA
## origin:namepeugeot 304                                 NA        NA
## origin:namepeugeot 504                                 NA        NA
## origin:namepeugeot 504 (sw)                            NA        NA
## origin:namepeugeot 505s turbo diesel                   NA        NA
## origin:namepeugeot 604sl                               NA        NA
## origin:nameplymouth 'cuda 340                          NA        NA
## origin:nameplymouth arrow gs                           NA        NA
## origin:nameplymouth champ                              NA        NA
## origin:nameplymouth cricket                            NA        NA
## origin:nameplymouth custom suburb                      NA        NA
## origin:nameplymouth duster                             NA        NA
## origin:nameplymouth fury                               NA        NA
## origin:nameplymouth fury gran sedan                    NA        NA
## origin:nameplymouth fury iii                           NA        NA
## origin:nameplymouth grand fury                         NA        NA
## origin:nameplymouth horizon                            NA        NA
## origin:nameplymouth horizon 4                          NA        NA
## origin:nameplymouth horizon miser                      NA        NA
## origin:nameplymouth horizon tc3                        NA        NA
## origin:nameplymouth reliant                            NA        NA
## origin:nameplymouth sapporo                            NA        NA
## origin:nameplymouth satellite                          NA        NA
## origin:nameplymouth satellite custom                   NA        NA
## origin:nameplymouth satellite custom (sw)              NA        NA
## origin:nameplymouth satellite sebring                  NA        NA
## origin:nameplymouth valiant                            NA        NA
## origin:nameplymouth valiant custom                     NA        NA
## origin:nameplymouth volare                             NA        NA
## origin:nameplymouth volare custom                      NA        NA
## origin:nameplymouth volare premier v8                  NA        NA
## origin:namepontiac astro                               NA        NA
## origin:namepontiac catalina                            NA        NA
## origin:namepontiac catalina brougham                   NA        NA
## origin:namepontiac firebird                            NA        NA
## origin:namepontiac grand prix                          NA        NA
## origin:namepontiac grand prix lj                       NA        NA
## origin:namepontiac j2000 se hatchback                  NA        NA
## origin:namepontiac lemans v6                           NA        NA
## origin:namepontiac phoenix                             NA        NA
## origin:namepontiac phoenix lj                          NA        NA
## origin:namepontiac safari (sw)                         NA        NA
## origin:namepontiac sunbird coupe                       NA        NA
## origin:namepontiac ventura sj                          NA        NA
## origin:namerenault 12 (sw)                             NA        NA
## origin:namerenault 12tl                                NA        NA
## origin:namerenault 5 gtl                               NA        NA
## origin:namesaab 99e                                    NA        NA
## origin:namesaab 99gle                                  NA        NA
## origin:namesaab 99le                                   NA        NA
## origin:namesubaru                                      NA        NA
## origin:namesubaru dl                                   NA        NA
## origin:nametoyota carina                               NA        NA
## origin:nametoyota celica gt                            NA        NA
```

```
## origin:nametoyota celica gt liftback                       NA       NA
## origin:nametoyota corolla                                  NA       NA
## origin:nametoyota corolla 1200                             NA       NA
## origin:nametoyota corolla 1600 (sw)                        NA       NA
## origin:nametoyota corolla liftback                         NA       NA
## origin:nametoyota corolla tercel                           NA       NA
## origin:nametoyota corona                                   NA       NA
## origin:nametoyota corona hardtop                           NA       NA
## origin:nametoyota corona liftback                          NA       NA
## origin:nametoyota corona mark ii                           NA       NA
## origin:nametoyota cressida                                 NA       NA
## origin:nametoyota mark ii                                  NA       NA
## origin:nametoyota starlet                                  NA       NA
## origin:nametoyota tercel                                   NA       NA
## origin:nametoyouta corona mark ii (sw)                     NA       NA
## origin:nametriumph tr7 coupe                               NA       NA
## origin:namevokswagen rabbit                                NA       NA
## origin:namevolkswagen 1131 deluxe sedan                    NA       NA
## origin:namevolkswagen 411 (sw)                             NA       NA
## origin:namevolkswagen dasher                               NA       NA
## origin:namevolkswagen jetta                                NA       NA
## origin:namevolkswagen model 111                            NA       NA
## origin:namevolkswagen rabbit                               NA       NA
## origin:namevolkswagen rabbit custom                        NA       NA
## origin:namevolkswagen rabbit custom diesel                 NA       NA
## origin:namevolkswagen rabbit l                             NA       NA
## origin:namevolkswagen scirocco                             NA       NA
## origin:namevolkswagen super beetle                         NA       NA
## origin:namevolkswagen type 3                               NA       NA
## origin:namevolvo 144ea                                     NA       NA
## origin:namevolvo 145e (sw)                                 NA       NA
## origin:namevolvo 244dl                                     NA       NA
## origin:namevolvo 245                                       NA       NA
## origin:namevolvo 264gl                                     NA       NA
## origin:namevolvo diesel                                    NA       NA
## origin:namevw dasher (diesel)                              NA       NA
## origin:namevw pickup                                       NA       NA
## origin:namevw rabbit                                       NA       NA
## origin:namevw rabbit c (diesel)                            NA       NA
## origin:namevw rabbit custom                                NA       NA
##
## Residual standard error: NaN on 0 degrees of freedom
## Multiple R-squared:     1,  Adjusted R-squared:     NaN
## F-statistic:   NaN on 391 and 0 DF,  p-value: NA
```

- (h)[5 pts] Try a few different transformations of the variables, such as $\log(X), \sqrt{X}, X^2$. Comment on your findings.

```
# Fit Linear Regression model with different transformation
different_transformation <- lm(mpg ~ . + I(log(displacement)) + I(sqrt(weight)) + I(weight^2), data
= dataAuto)

# Output the summary of the different transformation
summary(different_transformation)
```

```
##
## Call:
## lm(formula = mpg ~ . + I(log(displacement)) + I(sqrt(weight)) +
##     I(weight^2), data = dataAuto)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -5.639  0.000  0.000  0.000  5.639
##
## Coefficients: (1 not defined because of singularities)
##                                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)                    -6.535e+00  1.076e+02  -0.061 0.951706
## cylinders                      -6.653e-01  6.718e-01  -0.990 0.324909
## displacement                    3.514e-02  3.236e-02   1.086 0.280662
## horsepower                     -2.459e-02  3.396e-02  -0.724 0.471011
## weight                         -4.243e-02  7.319e-02  -0.580 0.563706
## acceleration                   -4.877e-01  1.787e-01  -2.729 0.007779
## year                            7.294e-01  1.152e-01   6.330 1.23e-08
## origin                         -2.427e+00  4.332e+00  -0.560 0.576845
## nameamc ambassador dpl          3.297e+00  3.159e+00   1.044 0.299758
## nameamc ambassador sst          3.929e+00  3.186e+00   1.233 0.220970
```

```
## nameamc concord                               8.841e-02  3.222e+00   0.027 0.978173
## nameamc concord d/l                          -7.853e-01  3.341e+00  -0.235 0.814763
## nameamc concord dl 6                          5.377e-01  3.477e+00   0.155 0.877464
## nameamc gremlin                               1.207e+00  3.098e+00   0.389 0.697970
## nameamc hornet                                1.747e+00  2.984e+00   0.586 0.559714
## nameamc hornet sportabout (sw)                1.607e+00  3.560e+00   0.451 0.652943
## nameamc matador                               1.394e+00  2.617e+00   0.533 0.595810
## nameamc matador (sw)                          2.933e+00  2.821e+00   1.040 0.301502
## nameamc pacer                                 1.481e+00  3.505e+00   0.422 0.673805
## nameamc pacer d/l                             2.795e-02  3.522e+00   0.008 0.993687
## nameamc rebel sst                             3.883e+00  3.235e+00   1.200 0.233490
## nameamc spirit dl                            -1.288e+00  4.134e+00  -0.312 0.756073
## nameaudi 100 ls                               2.481e+00  3.484e+00   0.712 0.478444
## nameaudi 100ls                               -1.574e+00  3.072e+00  -0.512 0.609831
## nameaudi 4000                                 4.205e+00  3.209e+00   1.311 0.193668
## nameaudi 5000                                -2.387e+00  3.465e+00  -0.689 0.492735
## nameaudi 5000s (diesel)                       1.319e+01  3.731e+00   3.536 0.000672
## nameaudi fox                                  3.931e+00  3.301e+00   1.191 0.237069
## namebmw 2002                                  4.340e+00  3.473e+00   1.250 0.214907
## namebmw 320i                                 -3.898e+00  3.336e+00  -1.168 0.246000
## namebuick century                            2.580e+00  2.988e+00   0.863 0.390531
## namebuick century 350                         1.680e+00  3.179e+00   0.528 0.598662
## namebuick century limited                     4.986e-01  3.643e+00   0.137 0.891457
## namebuick century luxus (sw)                  1.969e+00  3.447e+00   0.571 0.569464
## namebuick century special                     1.244e+00  3.387e+00   0.367 0.714329
## namebuick electra 225 custom                  1.329e+00  3.958e+00   0.336 0.737894
## namebuick estate wagon (sw)                   1.540e+00  2.873e+00   0.536 0.593412
## namebuick lesabre custom                      2.859e+00  3.299e+00   0.867 0.388677
## namebuick opel isuzu deluxe                   2.064e-01  4.092e+00   0.050 0.959894
## namebuick regal sport coupe (turbo)          -1.135e+00  3.654e+00  -0.311 0.756845
## namebuick skyhawk                             2.362e+00  3.435e+00   0.688 0.493649
## namebuick skylark                             5.986e-01  3.223e+00   0.186 0.853127
## namebuick skylark 320                         3.848e+00  3.160e+00   1.218 0.226736
## namebuick skylark limited                     1.979e+00  3.878e+00   0.510 0.611179
## namecadillac eldorado                         7.745e+00  3.380e+00   2.292 0.024497
## namecadillac seville                          3.200e+00  3.326e+00   0.962 0.338837
## namecapri ii                                 -5.808e-01  3.911e+00  -0.149 0.882302
## namechevroelt chevelle malibu                 1.952e+00  3.423e+00   0.570 0.570054
## namechevrolet bel air                         2.585e+00  3.263e+00   0.792 0.430598
## namechevrolet camaro                          7.029e-02  3.891e+00   0.018 0.985631
## namechevrolet caprice classic                 1.155e+00  2.636e+00   0.438 0.662435
## namechevrolet cavalier                       -1.265e+00  4.197e+00  -0.301 0.763861
## namechevrolet cavalier 2-door                 3.192e+00  4.181e+00   0.763 0.447406
## namechevrolet cavalier wagon                 -2.623e+00  4.207e+00  -0.624 0.534672
## namechevrolet chevelle concours (sw)          1.765e+00  3.271e+00   0.540 0.590943
## namechevrolet chevelle malibu                 4.098e+00  3.018e+00   1.358 0.178292
## namechevrolet chevelle malibu classic         2.428e+00  2.894e+00   0.839 0.403869
## namechevrolet chevette                       -3.855e-01  3.744e+00  -0.103 0.918249
## namechevrolet citation                        1.665e-01  3.297e+00   0.050 0.959850
## namechevrolet concours                        3.038e-03  3.355e+00   0.001 0.999280
## namechevrolet impala                          2.480e+00  2.648e+00   0.937 0.351748
## namechevrolet malibu                          6.887e-01  2.854e+00   0.241 0.809942
## namechevrolet malibu classic (sw)             1.698e+00  3.298e+00   0.515 0.608164
## namechevrolet monte carlo                     2.502e+00  3.548e+00   0.705 0.482744
## namechevrolet monte carlo landau              1.091e+00  2.763e+00   0.395 0.693919
## namechevrolet monte carlo s                   2.903e+00  3.207e+00   0.905 0.368078
## namechevrolet monza 2+2                       2.998e+00  3.467e+00   0.865 0.389671
## namechevrolet nova                            1.404e+00  2.903e+00   0.484 0.629959
## namechevrolet nova custom                     1.148e+00  3.466e+00   0.331 0.741236
## namechevrolet vega                           -3.168e-01  3.451e+00  -0.092 0.927092
## namechevrolet vega (sw)                       9.793e-01  3.938e+00   0.249 0.804205
## namechevrolet vega 2300                       5.217e+00  3.969e+00   1.314 0.192364
## namechevrolet woody                          -2.466e+00  4.167e+00  -0.592 0.555584
## namechevy c10                                -1.834e+00  3.206e+00  -0.572 0.568934
## namechevy c20                                 2.955e+00  3.923e+00   0.753 0.453356
## namechevy s-10                                2.380e+00  4.114e+00   0.579 0.564449
## namechrysler cordoba                          1.479e+00  3.269e+00   0.452 0.652133
## namechrysler lebaron medallion               -3.402e+00  3.985e+00  -0.854 0.395688
## namechrysler lebaron salon                   -3.861e+00  3.522e+00  -1.096 0.276153
## namechrysler lebaron town @ country (sw)      1.793e+00  3.217e+00   0.557 0.578793
## namechrysler new yorker brougham              2.128e+00  3.582e+00   0.594 0.554140
## namechrysler newport royal                    2.925e+00  3.264e+00   0.896 0.372763
## namedatsun 1200                               1.080e+01  6.542e+00   1.651 0.102477
## namedatsun 200-sx                             7.147e-02  6.511e+00   0.011 0.991269
## namedatsun 200sx                              7.672e+00  6.494e+00   1.181 0.240827
## namedatsun 210                                8.838e+00  6.153e+00   1.436 0.154671
```

```
## namedatsun 210 mpg                8.287e+00  6.311e+00   1.313 0.192811
## namedatsun 280-zx                 1.207e+01  6.981e+00   1.729 0.087547
## namedatsun 310                    7.975e+00  6.225e+00   1.281 0.203713
## namedatsun 310 gx                 7.686e+00  6.218e+00   1.236 0.219928
## namedatsun 510                    2.909e+00  6.503e+00   0.447 0.655854
## namedatsun 510 (sw)               7.427e+00  6.571e+00   1.130 0.261642
## namedatsun 510 hatchback          1.174e+01  6.475e+00   1.813 0.073428
## namedatsun 610                    1.686e+00  6.610e+00   0.255 0.799280
## namedatsun 710                    5.928e+00  6.349e+00   0.934 0.353201
## namedatsun 810                    2.988e+00  6.993e+00   0.427 0.670309
## namedatsun 810 maxima             2.924e+00  6.927e+00   0.422 0.674110
## namedatsun b-210                  5.927e+00  6.308e+00   0.940 0.350158
## namedatsun b210                   6.537e+00  6.395e+00   1.022 0.309689
## namedatsun b210 gx                1.287e+01  6.351e+00   2.027 0.045881
## namedatsun f-10 hatchback         6.481e+00  6.272e+00   1.033 0.304514
## namedatsun pl510                  5.691e+00  6.297e+00   0.904 0.368791
## namedodge aries se               -1.039e+00  4.023e+00  -0.258 0.796780
## namedodge aries wagon (sw)       -2.792e+00  3.952e+00  -0.706 0.481954
## namedodge aspen                   3.454e-01  3.012e+00   0.115 0.908988
## namedodge aspen 6                 8.636e-01  3.377e+00   0.256 0.798780
## namedodge aspen se                3.672e+00  3.412e+00   1.076 0.285011
## namedodge challenger se           2.740e+00  3.241e+00   0.845 0.400354
## namedodge charger 2.2             3.942e+00  4.131e+00   0.954 0.342849
## namedodge colt                   -1.000e+00  3.653e+00  -0.274 0.784906
## namedodge colt (sw)               9.806e-01  4.171e+00   0.235 0.814725
## namedodge colt hardtop           -1.205e+00  4.119e+00  -0.292 0.770663
## namedodge colt hatchback custom   2.574e+00  4.259e+00   0.604 0.547316
## namedodge colt m/m                3.074e+00  4.175e+00   0.736 0.463671
## namedodge coronet brougham        2.068e+00  3.210e+00   0.644 0.521260
## namedodge coronet custom          2.022e+00  3.159e+00   0.640 0.523782
## namedodge coronet custom (sw)     2.221e+00  3.327e+00   0.668 0.506200
## namedodge d100                   -1.496e+00  3.168e+00  -0.472 0.638037
## namedodge d200                    3.504e+00  3.942e+00   0.889 0.376634
## namedodge dart custom             1.287e-01  3.221e+00   0.040 0.968219
## namedodge diplomat                2.753e+00  3.201e+00   0.860 0.392270
## namedodge magnum xe               1.974e+00  3.201e+00   0.617 0.539245
## namedodge monaco (sw)             2.443e+00  3.797e+00   0.643 0.521796
## namedodge monaco brougham         9.551e-01  3.199e+00   0.299 0.766063
## namedodge omni                   -8.939e-02  4.192e+00  -0.021 0.983038
## namedodge rampage                -1.000e+00  4.204e+00  -0.238 0.812559
## namedodge st. regis               1.939e+00  3.226e+00   0.601 0.549544
## namefiat 124 sport coupe          1.497e+00  3.330e+00   0.450 0.654113
## namefiat 124 tc                   9.420e-01  3.323e+00   0.284 0.777490
## namefiat 124b                     4.587e+00  3.318e+00   1.382 0.170589
## namefiat 128                     -8.733e-01  2.974e+00  -0.294 0.769782
## namefiat 131                      2.616e+00  3.346e+00   0.782 0.436589
## namefiat strada custom            6.459e+00  3.224e+00   2.003 0.048433
## namefiat x1.9                     2.780e+00  3.320e+00   0.837 0.404860
## nameford country                  1.053e+00  3.652e+00   0.288 0.773878
## nameford country squire (sw)      1.395e+00  2.857e+00   0.488 0.626795
## nameford escort 2h               -5.486e-01  4.339e+00  -0.126 0.899706
## nameford escort 4w                6.725e-01  4.246e+00   0.158 0.874542
## nameford f108                    -1.228e+00  3.215e+00  -0.382 0.703424
## nameford f250                     3.143e+00  3.934e+00   0.799 0.426595
## nameford fairmont                 4.750e-01  3.901e+00   0.122 0.903391
## nameford fairmont (auto)         -1.718e+00  3.582e+00  -0.480 0.632752
## nameford fairmont (man)          -1.244e+00  3.926e+00  -0.317 0.752141
## nameford fairmont 4              -3.211e+00  3.906e+00  -0.822 0.413368
## nameford fairmont futura         -4.133e+00  3.971e+00  -1.041 0.301003
## nameford fiesta                   3.099e+00  4.277e+00   0.725 0.470785
## nameford futura                  -1.300e+00  3.370e+00  -0.386 0.700589
## nameford galaxie 500              3.972e+00  2.625e+00   1.513 0.134052
## nameford gran torino              2.167e+00  2.640e+00   0.821 0.414182
## nameford gran torino (sw)         3.360e+00  3.018e+00   1.113 0.268822
## nameford granada                  1.992e+00  3.410e+00   0.584 0.560774
## nameford granada ghia             2.858e+00  3.594e+00   0.795 0.428749
## nameford granada gl              -2.849e+00  3.554e+00  -0.802 0.425084
## nameford granada l               -2.583e+00  3.650e+00  -0.708 0.481156
## nameford ltd                      1.711e+00  2.901e+00   0.590 0.556837
## nameford ltd landau              -1.928e-02  3.250e+00  -0.006 0.995280
## nameford maverick                 1.902e+00  3.113e+00   0.611 0.542912
## nameford mustang                  2.114e+00  3.711e+00   0.570 0.570550
## nameford mustang gl              -1.951e+00  3.996e+00  -0.488 0.626653
## nameford mustang ii              -4.196e+00  3.415e+00  -1.229 0.222666
## nameford mustang ii 2+2           2.360e-01  3.906e+00   0.060 0.951962
## nameford pinto                   -1.524e+00  3.295e+00  -0.462 0.645082
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## nameford pinto (sw)                    -1.890e+00  3.972e+00  -0.476 0.635395
## nameford pinto runabout                -3.224e+00  3.973e+00  -0.812 0.419372
## nameford ranger                        -1.375e+00  4.099e+00  -0.335 0.738177
## nameford thunderbird                     2.304e+00  3.227e+00   0.714 0.477226
## nameford torino                          3.952e+00  3.295e+00   1.199 0.233823
## nameford torino 500                      4.176e+00  3.667e+00   1.139 0.258134
## namehi 1200d                             3.889e+00  4.408e+00   0.882 0.380137
## namehonda accord                         6.659e+00  6.176e+00   1.078 0.284079
## namehonda accord cvcc                    6.740e+00  6.458e+00   1.044 0.299731
## namehonda accord lx                      3.353e+00  6.371e+00   0.526 0.600140
## namehonda civic                          5.783e+00  6.112e+00   0.946 0.346900
## namehonda civic (auto)                   1.362e+00  6.202e+00   0.220 0.826726
## namehonda civic 1300                      3.740e+00  6.191e+00   0.604 0.547419
## namehonda civic 1500 gl                   1.421e+01  6.210e+00   2.289 0.024667
## namehonda civic cvcc                      7.882e+00  6.210e+00   1.269 0.207956
## namehonda prelude                         5.413e+00  6.323e+00   0.856 0.394495
## namemaxda glc deluxe                      4.899e+00  6.197e+00   0.791 0.431466
## namemaxda rx3                            -9.118e+00  6.293e+00  -1.449 0.151170
## namemazda 626                             7.437e+00  6.427e+00   1.157 0.250590
## namemazda glc                             1.837e+01  6.311e+00   2.911 0.004633
## namemazda glc 4                           4.416e+00  6.224e+00   0.709 0.480058
## namemazda glc custom                      1.326e+00  6.272e+00   0.211 0.833038
## namemazda glc custom l                    7.770e+00  6.296e+00   1.234 0.220741
## namemazda glc deluxe                      5.224e+00  6.348e+00   0.823 0.412944
## namemazda rx-4                           -4.742e+00  6.612e+00  -0.717 0.475316
## namemazda rx-7 gs                        -7.775e+00  6.428e+00  -1.210 0.229942
## namemazda rx2 coupe                      -6.541e+00  6.520e+00  -1.003 0.318668
## namemercedes benz 300d                    7.940e+00  3.915e+00   2.028 0.045820
## namemercedes-benz 240d                    9.453e+00  3.797e+00   2.490 0.014799
## namemercedes-benz 280s                    1.674e+00  4.010e+00   0.418 0.677372
## namemercury capri 2000                   -1.734e+00  4.018e+00  -0.432 0.667226
## namemercury capri v6                     -8.350e-01  3.767e+00  -0.222 0.825130
## namemercury cougar brougham               9.286e-01  3.278e+00   0.283 0.777650
## namemercury grand marquis                -3.468e-01  3.261e+00  -0.106 0.915557
## namemercury lynx l                        2.441e+00  4.277e+00   0.571 0.569785
## namemercury marquis                       6.912e-01  3.437e+00   0.201 0.841119
## namemercury marquis brougham              1.135e+00  3.797e+00   0.299 0.765752
## namemercury monarch                      -1.439e-02  3.701e+00  -0.004 0.996906
## namemercury monarch ghia                  2.800e+00  3.227e+00   0.867 0.388202
## namemercury zephyr                       -2.934e-01  3.543e+00  -0.083 0.934192
## namemercury zephyr 6                     -1.585e+00  3.570e+00  -0.444 0.658209
## namenissan stanza xe                      8.075e+00  6.453e+00   1.251 0.214398
## nameoldsmobile cutlass ciera (diesel)     1.491e+01  3.751e+00   3.975 0.000151
## nameoldsmobile cutlass ls                 9.699e+00  3.690e+00   2.629 0.010231
## nameoldsmobile cutlass salon brougham     5.279e+00  3.164e+00   1.668 0.099105
## nameoldsmobile cutlass supreme            3.691e+00  3.377e+00   1.093 0.277711
## nameoldsmobile delta 88 royale            1.920e+00  3.277e+00   0.586 0.559475
## nameoldsmobile omega                     -2.300e+00  3.139e+00  -0.733 0.465739
## nameoldsmobile omega brougham             1.741e+00  3.711e+00   0.469 0.640279
## nameoldsmobile starfire sx               -5.426e-01  3.834e+00  -0.142 0.887818
## nameoldsmobile vista cruiser              1.253e+00  3.386e+00   0.370 0.712409
## nameopel 1900                             2.532e+00  2.948e+00   0.859 0.392768
## nameopel manta                            6.845e-02  2.902e+00   0.024 0.981241
## namepeugeot 304                           5.960e+00  3.547e+00   1.680 0.096752
## namepeugeot 504                           4.235e+00  3.193e+00   1.326 0.188432
## namepeugeot 504 (sw)                      3.302e+00  3.798e+00   0.869 0.387178
## namepeugeot 505s turbo diesel             6.159e+00  3.671e+00   1.678 0.097242
## namepeugeot 604sl                        -1.625e+00  3.845e+00  -0.423 0.673765
## nameplymouth 'cuda 340                    7.802e-01  3.245e+00   0.240 0.810604
## nameplymouth arrow gs                    -2.365e+00  4.033e+00  -0.586 0.559177
## nameplymouth champ                        3.796e+00  4.346e+00   0.873 0.384968
## nameplymouth cricket                      9.194e-01  4.127e+00   0.223 0.824251
## nameplymouth custom suburb                2.398e+00  3.423e+00   0.701 0.485592
## nameplymouth duster                       4.106e+00  3.043e+00   1.349 0.180987
## nameplymouth fury                         3.298e+00  3.459e+00   0.953 0.343178
## nameplymouth fury gran sedan              3.078e+00  3.237e+00   0.951 0.344366
## nameplymouth fury iii                     3.739e+00  2.615e+00   1.430 0.156500
## nameplymouth grand fury                   4.034e+00  3.362e+00   1.200 0.233618
## nameplymouth horizon                      1.626e+00  4.266e+00   0.381 0.704015
## nameplymouth horizon 4                    1.373e+00  4.274e+00   0.321 0.748793
## nameplymouth horizon miser                3.561e+00  4.274e+00   0.833 0.407232
## nameplymouth horizon tc3                  2.596e+00  4.183e+00   0.621 0.536559
## nameplymouth reliant                     -1.854e+00  3.738e+00  -0.496 0.621192
## nameplymouth sapporo                     -1.296e+00  3.838e+00  -0.338 0.736410
## nameplymouth satellite                    5.440e+00  3.239e+00   1.680 0.096848
## nameplymouth satellite custom             1.703e+00  3.468e+00   0.491 0.624695
```

```
## nameplymouth satellite custom (sw)    3.236e+00  3.200e+00   1.011 0.314896
## nameplymouth satellite sebring         2.554e+00  3.422e+00   0.746 0.457540
## nameplymouth valiant                   2.407e+00  3.048e+00   0.789 0.432110
## nameplymouth valiant custom            1.190e+00  3.460e+00   0.344 0.731796
## nameplymouth volare                    1.774e+00  3.394e+00   0.523 0.602659
## nameplymouth volare custom             1.880e+00  3.403e+00   0.552 0.582239
## nameplymouth volare premier v8        -1.395e+00  3.163e+00  -0.441 0.660382
## namepontiac astro                     -3.663e-01  3.876e+00  -0.095 0.924942
## namepontiac catalina                   3.635e+00  2.747e+00   1.323 0.189384
## namepontiac catalina brougham          3.858e+00  3.262e+00   1.182 0.240437
## namepontiac firebird                   4.158e+00  3.536e+00   1.176 0.243088
## namepontiac grand prix                 4.482e+00  3.508e+00   1.278 0.205023
## namepontiac grand prix lj              1.007e+00  3.211e+00   0.314 0.754566
## namepontiac j2000 se hatchback        -1.078e-01  4.231e+00  -0.025 0.979729
## namepontiac lemans v6                  1.002e+00  3.386e+00   0.296 0.768076
## namepontiac phoenix                    2.450e+00  3.592e+00   0.682 0.497116
## namepontiac phoenix lj                 2.008e+00  3.376e+00   0.595 0.553628
## namepontiac safari (sw)                3.450e+00  4.142e+00   0.833 0.407304
## namepontiac sunbird coupe             -2.499e-01  3.854e+00  -0.065 0.948452
## namepontiac ventura sj                 2.021e+00  3.372e+00   0.599 0.550576
## namerenault 12 (sw)                    2.509e+00  3.413e+00   0.735 0.464266
## namerenault 12tl                       7.874e-02  3.222e+00   0.024 0.980562
## namerenault 5 gtl                      6.208e+00  3.209e+00   1.934 0.056513
## namesaab 99e                           4.645e+00  3.516e+00   1.321 0.190182
## namesaab 99gle                        -2.263e+00  3.467e+00  -0.653 0.515858
## namesaab 99le                          2.059e+00  3.057e+00   0.673 0.502606
## namesubaru                             4.358e+00  6.232e+00   0.699 0.486342
## namesubaru dl                          5.369e+00  6.171e+00   0.870 0.386794
## nametoyota carina                     -4.555e-01  6.623e+00  -0.069 0.945335
## nametoyota celica gt                   7.041e+00  6.621e+00   1.064 0.290653
## nametoyota celica gt liftback         -1.570e+00  6.633e+00  -0.237 0.813453
## nametoyota corolla                     5.139e+00  6.086e+00   0.844 0.400852
## nametoyota corolla 1200                7.265e+00  6.225e+00   1.167 0.246513
## nametoyota corolla 1600 (sw)           5.481e+00  6.508e+00   0.842 0.402169
## nametoyota corolla liftback            1.870e+00  6.477e+00   0.289 0.773540
## nametoyota corolla tercel              1.008e+01  6.328e+00   1.593 0.115045
## nametoyota corona                      4.273e+00  6.237e+00   0.685 0.495264
## nametoyota corona hardtop              3.958e+00  6.626e+00   0.597 0.551966
## nametoyota corona liftback             6.615e+00  6.644e+00   0.996 0.322371
## nametoyota corona mark ii              5.496e+00  6.688e+00   0.822 0.413544
## nametoyota cressida                    4.195e+00  6.968e+00   0.602 0.548796
## nametoyota mark ii                     3.376e+00  6.944e+00   0.486 0.628092
## nametoyota starlet                     7.850e+00  6.195e+00   1.267 0.208680
## nametoyota tercel                      8.495e+00  6.267e+00   1.356 0.178980
## nametoyouta corona mark ii (sw)        3.779e+00  6.684e+00   0.565 0.573394
## nametriumph tr7 coupe                  7.689e+00  3.276e+00   2.347 0.021348
## namevokswagen rabbit                  -2.606e+00  3.148e+00  -0.828 0.410112
## namevolkswagen 1131 deluxe sedan       3.733e+00  3.591e+00   1.040 0.301561
## namevolkswagen 411 (sw)                1.622e+00  3.549e+00   0.457 0.648854
## namevolkswagen dasher                 -8.623e-01  2.730e+00  -0.316 0.752876
## namevolkswagen jetta                   1.949e+00  3.184e+00   0.612 0.542263
## namevolkswagen model 111               3.614e+00  3.477e+00   1.040 0.301590
## namevolkswagen rabbit                 -2.394e-01  2.770e+00  -0.086 0.931319
## namevolkswagen rabbit custom          -2.626e-01  3.169e+00  -0.083 0.934174
## namevolkswagen rabbit custom diesel    1.527e+01  3.366e+00   4.537 1.93e-05
## namevolkswagen rabbit l                4.132e+00  3.231e+00   1.279 0.204605
## namevolkswagen scirocco                9.383e-01  3.140e+00   0.299 0.765823
## namevolkswagen super beetle            2.064e+00  3.474e+00   0.594 0.554169
## namevolkswagen type 3                  2.121e+00  3.753e+00   0.565 0.573491
## namevolvo 144ea                       -1.114e+00  3.593e+00  -0.310 0.757310
## namevolvo 145e (sw)                   -1.630e+00  3.662e+00  -0.445 0.657432
## namevolvo 244dl                       -1.179e-01  3.593e+00  -0.033 0.973893
## namevolvo 245                         -8.922e-01  3.660e+00  -0.244 0.808044
## namevolvo 264gl                       -3.031e+00  3.631e+00  -0.835 0.406251
## namevolvo diesel                       9.539e+00  3.800e+00   2.510 0.014036
## namevw dasher (diesel)                 1.628e+01  3.756e+00   4.335 4.11e-05
## namevw pickup                          1.592e+01  3.607e+00   4.413 3.08e-05
## namevw rabbit                          5.126e+00  2.725e+00   1.881 0.063486
## namevw rabbit c (diesel)               1.540e+01  3.428e+00   4.492 2.29e-05
## namevw rabbit custom                         NA         NA      NA       NA
## I(log(displacement))                  -1.169e+01  7.640e+00  -1.530 0.129980
## I(sqrt(weight))                        2.719e+00  5.430e+00   0.501 0.617883
## I(weight^2)                            2.320e-06  3.810e-06   0.609 0.544305
##
## (Intercept)
## cylinders
```

```
## displacement
## horsepower
## weight
## acceleration                                          **
## year                                                  ***
## origin
## nameamc ambassador dpl
## nameamc ambassador sst
## nameamc concord
## nameamc concord d/l
## nameamc concord dl 6
## nameamc gremlin
## nameamc hornet
## nameamc hornet sportabout (sw)
## nameamc matador
## nameamc matador (sw)
## nameamc pacer
## nameamc pacer d/l
## nameamc rebel sst
## nameamc spirit dl
## nameaudi 100 ls
## nameaudi 100ls
## nameaudi 4000
## nameaudi 5000
## nameaudi 5000s (diesel)                      ***
## nameaudi fox
## namebmw 2002
## namebmw 320i
## namebuick century
## namebuick century 350
## namebuick century limited
## namebuick century luxus (sw)
## namebuick century special
## namebuick electra 225 custom
## namebuick estate wagon (sw)
## namebuick lesabre custom
## namebuick opel isuzu deluxe
## namebuick regal sport coupe (turbo)
## namebuick skyhawk
## namebuick skylark
## namebuick skylark 320
## namebuick skylark limited
## namecadillac eldorado                        *
## namecadillac seville
## namecapri ii
## namechevroelt chevelle malibu
## namechevrolet bel air
## namechevrolet camaro
## namechevrolet caprice classic
## namechevrolet cavalier
## namechevrolet cavalier 2-door
## namechevrolet cavalier wagon
## namechevrolet chevelle concours (sw)
## namechevrolet chevelle malibu
## namechevrolet chevelle malibu classic
## namechevrolet chevette
## namechevrolet citation
## namechevrolet concours
## namechevrolet impala
## namechevrolet malibu
## namechevrolet malibu classic (sw)
## namechevrolet monte carlo
## namechevrolet monte carlo landau
## namechevrolet monte carlo s
## namechevrolet monza 2+2
## namechevrolet nova
## namechevrolet nova custom
## namechevrolet vega
## namechevrolet vega (sw)
## namechevrolet vega 2300
## namechevrolet woody
## namechevy c10
## namechevy c20
## namechevy s-10
## namechrysler cordoba
## namechrysler lebaron medallion
```

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## namechrysler lebaron salon
## namechrysler lebaron town @ country (sw)
## namechrysler new yorker brougham
## namechrysler newport royal
## namedatsun 1200
## namedatsun 200-sx
## namedatsun 200sx
## namedatsun 210
## namedatsun 210 mpg
## namedatsun 280-zx                        .
## namedatsun 310
## namedatsun 310 gx
## namedatsun 510
## namedatsun 510 (sw)
## namedatsun 510 hatchback                 .
## namedatsun 610
## namedatsun 710
## namedatsun 810
## namedatsun 810 maxima
## namedatsun b-210
## namedatsun b210
## namedatsun b210 gx                       *
## namedatsun f-10 hatchback
## namedatsun pl510
## namedodge aries se
## namedodge aries wagon (sw)
## namedodge aspen
## namedodge aspen 6
## namedodge aspen se
## namedodge challenger se
## namedodge charger 2.2
## namedodge colt
## namedodge colt (sw)
## namedodge colt hardtop
## namedodge colt hatchback custom
## namedodge colt m/m
## namedodge coronet brougham
## namedodge coronet custom
## namedodge coronet custom (sw)
## namedodge d100
## namedodge d200
## namedodge dart custom
## namedodge diplomat
## namedodge magnum xe
## namedodge monaco (sw)
## namedodge monaco brougham
## namedodge omni
## namedodge rampage
## namedodge st. regis
## namefiat 124 sport coupe
## namefiat 124 tc
## namefiat 124b
## namefiat 128
## namefiat 131
## namefiat strada custom                   *
## namefiat x1.9
## nameford country
## nameford country squire (sw)
## nameford escort 2h
## nameford escort 4w
## nameford f108
## nameford f250
## nameford fairmont
## nameford fairmont (auto)
## nameford fairmont (man)
## nameford fairmont 4
## nameford fairmont futura
## nameford fiesta
## nameford futura
## nameford galaxie 500
## nameford gran torino
## nameford gran torino (sw)
## nameford granada
## nameford granada ghia
## nameford granada gl
## nameford granada l
```

```
## nameford ltd
## nameford ltd landau
## nameford maverick
## nameford mustang
## nameford mustang gl
## nameford mustang ii
## nameford mustang ii 2+2
## nameford pinto
## nameford pinto (sw)
## nameford pinto runabout
## nameford ranger
## nameford thunderbird
## nameford torino
## nameford torino 500
## namehi 1200d
## namehonda accord
## namehonda accord cvcc
## namehonda accord lx
## namehonda civic
## namehonda civic (auto)
## namehonda civic 1300
## namehonda civic 1500 gl                        *
## namehonda civic cvcc
## namehonda prelude
## namemaxda glc deluxe
## namemaxda rx3
## namemazda 626
## namemazda glc                                  **
## namemazda glc 4
## namemazda glc custom
## namemazda glc custom l
## namemazda glc deluxe
## namemazda rx-4
## namemazda rx-7 gs
## namemazda rx2 coupe
## namemercedes benz 300d                         *
## namemercedes-benz 240d                         *
## namemercedes-benz 280s
## namemercury capri 2000
## namemercury capri v6
## namemercury cougar brougham
## namemercury grand marquis
## namemercury lynx l
## namemercury marquis
## namemercury marquis brougham
## namemercury monarch
## namemercury monarch ghia
## namemercury zephyr
## namemercury zephyr 6
## namenissan stanza xe
## nameoldsmobile cutlass ciera (diesel)    ***
## nameoldsmobile cutlass ls               *
## nameoldsmobile cutlass salon brougham   .
## nameoldsmobile cutlass supreme
## nameoldsmobile delta 88 royale
## nameoldsmobile omega
## nameoldsmobile omega brougham
## nameoldsmobile starfire sx
## nameoldsmobile vista cruiser
## nameopel 1900
## nameopel manta
## namepeugeot 304                             .
## namepeugeot 504
## namepeugeot 504 (sw)
## namepeugeot 505s turbo diesel             .
## namepeugeot 604sl
## nameplymouth 'cuda 340
## nameplymouth arrow gs
## nameplymouth champ
## nameplymouth cricket
## nameplymouth custom suburb
## nameplymouth duster
## nameplymouth fury
## nameplymouth fury gran sedan
## nameplymouth fury iii
## nameplymouth grand fury
```

```
## nameplymouth horizon
## nameplymouth horizon 4
## nameplymouth horizon miser
## nameplymouth horizon tc3
## nameplymouth reliant
## nameplymouth sapporo
## nameplymouth satellite                      .
## nameplymouth satellite custom
## nameplymouth satellite custom (sw)
## nameplymouth satellite sebring
## nameplymouth valiant
## nameplymouth valiant custom
## nameplymouth volare
## nameplymouth volare custom
## nameplymouth volare premier v8
## namepontiac astro
## namepontiac catalina
## namepontiac catalina brougham
## namepontiac firebird
## namepontiac grand prix
## namepontiac grand prix lj
## namepontiac j2000 se hatchback
## namepontiac lemans v6
## namepontiac phoenix
## namepontiac phoenix lj
## namepontiac safari (sw)
## namepontiac sunbird coupe
## namepontiac ventura sj
## namerenault 12 (sw)
## namerenault 12tl
## namerenault 5 gtl                           .
## namesaab 99e
## namesaab 99gle
## namesaab 99le
## namesubaru
## namesubaru dl
## nametoyota carina
## nametoyota celica gt
## nametoyota celica gt liftback
## nametoyota corolla
## nametoyota corolla 1200
## nametoyota corolla 1600 (sw)
## nametoyota corolla liftback
## nametoyota corolla tercel
## nametoyota corona
## nametoyota corona hardtop
## nametoyota corona liftback
## nametoyota corona mark ii
## nametoyota cressida
## nametoyota mark ii
## nametoyota starlet
## nametoyota tercel
## nametoyouta corona mark ii (sw)
## nametriumph tr7 coupe                       *
## namevokswagen rabbit
## namevolkswagen 1131 deluxe sedan
## namevolkswagen 411 (sw)
## namevolkswagen dasher
## namevolkswagen jetta
## namevolkswagen model 111
## namevolkswagen rabbit
## namevolkswagen rabbit custom
## namevolkswagen rabbit custom diesel      ***
## namevolkswagen rabbit l
## namevolkswagen scirocco
## namevolkswagen super beetle
## namevolkswagen type 3
## namevolvo 144ea
## namevolvo 145e (sw)
## namevolvo 244dl
## namevolvo 245
## namevolvo 264gl
## namevolvo diesel                            *
## namevw dasher (diesel)               ***
## namevw pickup                        ***
## namevw rabbit                              .
```

```
## namevw rabbit c (diesel)                    ***
## namevw rabbit custom
## I(log(displacement))
## I(sqrt(weight))
## I(weight^2)
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.206 on 82 degrees of freedom
## Multiple R-squared:  0.9832, Adjusted R-squared:  0.9201
## F-statistic: 15.57 on 309 and 82 DF,  p-value: < 2.2e-16
```