Template for 5501-01 programming assignment

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This program reads data on housing prices in Albuquerque, New Mexico in 1993. Find more information in the data dictionary.

This code is placed in the public domain.

Load the tidyverse library

For most of your programs, you should load the tidyverse library. The messages and warnings are suppressed.

```
library(tidyverse)
```

Read the data and view a brief summary

Use the read_csv function to read the data. The glimpse function will produce a brief summary.

```
alb <- read_csv(
    file="../data/albuquerque-housing.csv",
    col_names=TRUE,
    col_types="nnnnccc",
    na=".")
glimpse(alb)</pre>
```

Calculate overall means

The summarize_if function produces means, but only for numeric data. You wouldn't want to compute means for data with values "yes" and "no".

```
alb |>
  summarise_if(is.numeric, mean, na.rm = TRUE)
```

Summarize price

The average price of a home, 106 thousand dollars, is quite low because the data comes from 1993.

Summarize sqft

The average square foot of a home, 1,653 square feet, is quite low. However, different cities and states have different housing.

Summarize age

The average age of a house is almost 15 years, which is not too old in terms of housing.

Summarize features

The average feature of a house is between 3 and 4 features. So the average house will have between 3 and 4 features in it. Again, this data is back from 1993, hence most of the variables are different now.