Assignment 3

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Question One

The datat file **Real-Estate.txt** contains information on the homes sold in the Denver area during the yea 2003. The variables in this data file are as follows:

Name	Representation
Price	Selling price in $1000
Bedrooms	Number of bedrooms
Size	Size of the home in square feet
Pool	Swimming Pool(1=Yes,0=No)
Distance	Distance from the home to the center of the city
Township	Township NO.
Garage	Garage attached(1=Yes,0=No)
Baths	Number of bathrooms

```
data1 <- read.table("Real-Estate.txt",header=TRUE)
data1
```

```
##     Price Bedrooms Size Pool Distance Township Garage Baths
## 1   263.1        4 2300    1       17        5      1   2.0
## 2   182.4        4 2100    0       19        4      0   2.0
## 3   242.1        3 2300    0       12        3      0   2.0
## 4   213.6        2 2200    0       16        2      0   2.5
## 5   139.9        2 2100    0       28        1      0   1.5
## 6   245.4        2 2100    1       12        1      1   2.0
## 7   327.2        6 2500    0       15        3      1   2.0
## 8   271.8        2 2100    0        9        2      1   2.5
## 9   221.1        3 2300    1       18        1      0   1.5
## 10  266.6        4 2400    0       13        4      1   2.0
## 11  292.4        4 2100    0       14        3      1   2.0
## 12  209.0        2 1700    0        8        4      1   1.5
## 13  270.8        6 2500    0        7        4      1   2.0
## 14  246.1        4 2100    0       18        3      1   2.0
## 15  194.4        2 2300    0       11        3      0   2.0
## 16  281.3        3 2100    0       16        2      1   2.0
## 17  172.7        4 2200    1       16        3      0   2.0
## 18  207.5        5 2300    1       21        4      0   2.5
## 19  198.9        3 2200    1       10        4      1   2.0
## 20  209.3        6 1900    1       15        4      1   2.0
## 21  252.3        4 2600    0        8        4      1   2.0
## 22  192.9        4 1900    1       14        2      1   2.5
## 23  209.3        5 2100    0       20        5      0   1.5
## 24  345.3        8 2600    0        9        4      1   2.0
## 25  326.3        6 2100    0       11        5      1   3.0
## 26  173.1        2 2200    1       21        5      1   1.5
## 27  187.0        2 1900    0       26        4      0   2.0
## 28  257.2        2 2100    0        9        4      1   2.0
## 29  233.0        3 2200    0       14        3      1   1.5
```

```
## 30  180.4       2 2000    0       11       5      0   2.0
## 31  234.0       2 1700    0       19       3      1   2.0
## 32  207.1       2 2000    0       11       5      1   2.0
## 33  247.7       5 2400    0       16       2      1   2.0
## 34  166.2       3 2000    1       16       2      1   2.0
## 35  177.1       2 1900    0       10       5      1   2.0
## 36  182.7       4 2000    1       14       4      0   2.5
## 37  216.0       4 2300    0       19       2      0   2.0
## 38  312.1       6 2600    0        7       5      1   2.5
## 39  199.8       3 2100    0       19       3      1   2.0
## 40  273.2       5 2200    0       16       2      1   3.0
## 41  206.0       3 2100    1        9       3      0   1.5
## 42  232.2       3 1900    1       16       1      1   1.5
## 43  198.3       4 2100    1       19       1      1   1.5
## 44  205.1       3 2000    1       20       4      0   2.0
## 45  175.6       4 2300    1       24       4      1   2.0
## 46  307.8       3 2400    1       21       2      1   3.0
## 47  269.2       5 2200    0        8       5      1   3.0
## 48  224.8       3 2200    0       17       1      1   2.5
## 49  171.6       3 2000    1       16       4      0   2.0
## 50  216.8       3 2200    0       15       1      1   2.0
## 51  192.6       6 2200    1       14       1      0   2.0
## 52  236.4       5 2200    0       20       3      1   2.0
## 53  172.4       3 2200    0       23       3      0   2.0
## 54  251.4       3 1900    0       12       2      1   2.0
## 55  246.0       6 2300    0        7       3      1   3.0
## 56  147.4       6 1700    1       12       1      0   2.0
## 57  176.0       4 2200    0       15       1      1   2.0
## 58  228.4       3 2300    0       17       5      1   1.5
## 59  166.5       3 1600    1       19       3      0   2.5
## 60  189.4       4 2200    0       24       1      1   2.0
## 61  312.1       7 2400    0       13       3      1   3.0
## 62  289.8       6 2000    0       21       3      1   3.0
## 63  269.9       5 2200    1       11       4      1   2.5
## 64  154.3       2 2000    0       13       2      0   2.0
## 65  222.1       2 2100    0        9       5      1   2.0
## 66  209.7       5 2200    1       13       2      1   2.0
## 67  190.9       3 2200    1       18       3      1   2.0
## 68  254.3       4 2500    1       15       3      1   2.0
## 69  207.5       3 2100    1       10       2      0   2.0
## 70  209.7       4 2200    1       19       2      1   2.0
## 71  294.0       2 2100    0       13       2      1   2.5
## 72  176.3       2 2000    1       17       3      0   2.0
## 73  294.3       7 2400    0        8       4      1   2.0
## 74  224.0       3 1900    1        6       1      1   2.0
## 75  125.0       2 1900    0       18       4      0   1.5
## 76  236.8       4 2600    1       17       5      1   2.0
## 77  164.1       4 2300    0       19       4      0   2.0
## 78  217.8       3 2500    0       12       3      0   2.0
## 79  192.2       2 2400    0       16       2      0   2.5
## 80  125.9       2 2400    0       28       1      0   1.5
## 81  220.9       2 2300    1       12       1      1   2.0
## 82  294.5       6 2700    0       15       3      1   2.0
## 83  244.6       2 2300    0        9       2      1   2.5
```

```
## 84  199.0        3 2500    1       18        1      0   1.5
## 85  240.0        4 2600    0       13        4      1   2.0
## 86  263.2        4 2300    0       14        3      1   2.0
## 87  188.1        2 1900    0        8        4      1   1.5
## 88  243.7        6 2700    0        7        4      1   2.0
## 89  221.5        4 2300    0       18        3      1   2.0
## 90  175.0        2 2500    0       11        3      0   2.0
## 91  253.2        3 2300    0       16        2      1   2.0
## 92  155.4        4 2400    1       16        3      0   2.0
## 93  186.7        5 2500    1       21        4      0   2.5
## 94  179.0        3 2400    1       10        4      1   2.0
## 95  188.3        6 2100    1       15        4      1   2.0
## 96  227.1        4 2900    0        8        4      1   2.0
## 97  173.6        4 2100    1       14        2      1   2.5
## 98  188.3        5 2300    0       20        5      0   1.5
## 99  310.8        8 2900    0        9        4      1   2.0
## 100 293.7        6 2400    0       11        5      1   3.0
## 101 179.0        3 2400    0        8        4      1   2.0
## 102 188.3        6 2100    1       14        2      1   2.5
## 103 227.1        4 2900    0       20        5      0   1.5
## 104 173.6        4 2100    0        9        4      1   2.0
## 105 188.3        5 2300    0       11        5      1   3.0
```

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.