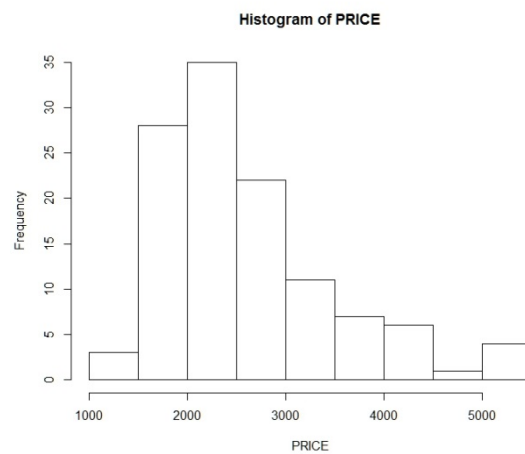


R Lesson 2 - Solutions
MSPA 401 – Introduction to Statistical Analysis

Exercises:

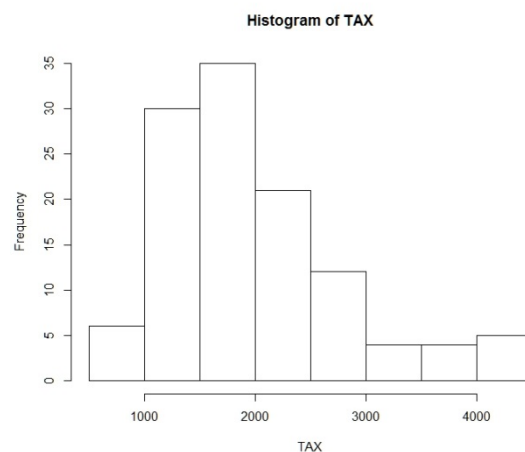
- 1) For the following exercises use `hist()`, `plot()`, `boxplot()` and `par()` functions supplied by R.
- a) Construct a histogram for PRICE. Describe the distribution shape.

The distribution is skewed right.



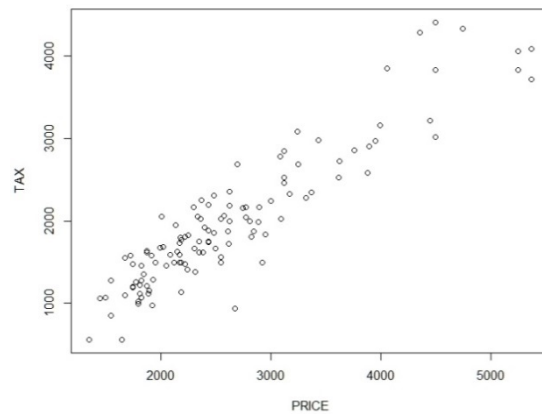
- b) Construct a histogram for TAX. Describe the distribution shape.

The distribution is skewed right.



- c) Construct a scatterplot displaying TAX versus PRICE. Is there a relationship?

The plot suggests a positive linear relationship between TAX and PRICE.



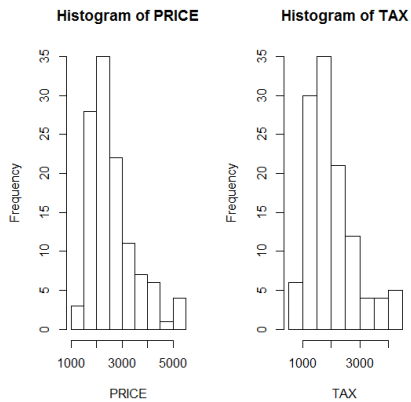
d) Construct a stem-and-leaf plot for X using `stem()`.

The decimal point is at the |

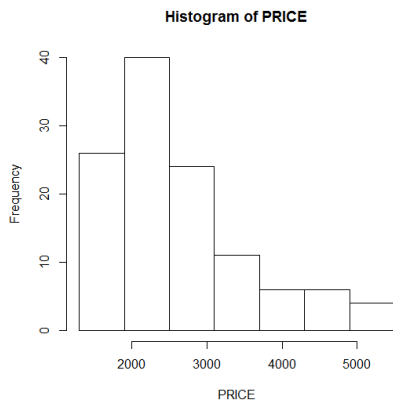
```

4 | 66
6 |
8 | 6489
10 | 3778022459
12 | 022688858
14 | 26688900000678899
16 | 222347788244557
18 | 011336888259
20 | 00223455666779
22 | 05581256
24 | 6229
26 | 9928
28 | 56078
30 | 286
32 | 2
34 |
36 | 2
38 | 345
40 | 69
42 | 93
44 | 1
    
```

e) Use the `par()` and `mflow()` or `mfcoll()` functions to construct a window with two columns and one row showing the histograms for PRICE and TAX.



- 2) For the following exercises use `hist()` and, within `hist()`, `breaks()`.
- Construct a histogram for PRICE starting the first class at 1300 (\$hundreds) with a class width of 600 (\$hundreds).



- Construct a histogram for TAX starting the first class at \$500 with a class width of \$500.

