Stem-and-Leaf Plots

1. Make a stem-and-leaf plot of this data.

   Stem | Leaf

   January maximum temperatures in Alaskan cities (Fahrenheit):
   40 46 73 39 35 43 49 49 42 46 50
   49 51 45 51 51 47 76 54 28 22 47

   a. What was the lowest temperature in the set?   The highest?

   b. What temperature(s) occurred most frequently?

   c. In which 10-degree interval are most of the temperature readings?

   d. How many cities in this data had a January maximum temperature 40 degrees or less?

   e. What is the median?

2. Build a stem-and-leaf plot of this data set.
   Also find the median.

   Stem | Leaf

   25,800 24,829 26,483 30,291 29,103
   24,392 26,392 27,392 27,190 28,903

3. Find the median and mode of these data sets.

   a.

Stem	Leaf
24	0 3 5 5 7 8
25	1 3 4
26	5 8 9
27	0 0 0 1 1 2 4 5 7
28	2

   24|0 = $24,000

   b.

Stem	Leaf
8	1 2 7 8
9	3 5 5 7 9
10	0 0 2 2 2 5 7 9 9
11	0 1 1 2 5 5 6 8
12	1 1 3 4 5 9
13	1 1 5

   8|2 = 8.2 lb

4. Make a back-to-back stem-and-leaf plot of these two data sets. Then find the median and range of the data sets. Which state is rainier?

   Number of rainy days in a year, Texas cities:
   67 69 84 73 77 79 63 49 96
   06 63 52 105 59 82 90 79 71

   Number of rainy days in a year, California cities:
   37 29 90 117 44 32 35 35
   93 75 58 42 62 67 31 45

Leaf	Stem	Leaf