Extra Credit #3

Due: Thursday, February 22, 2018 at 11:59 p.m.

Points: 30

Please turn in your answers for the homework assignment on Canvas under Extra Credit #3 there.

- 1. (20 points) Modify your program in homework 3 question 2 to print out a list of the breath numbers that have the maximum and minimum difference in the volume of air inspired and expired.
- 2. (*10 points*) Modify the above program to handle the plurals, commas, and "and"s properly. So, for example, your output is to look like the following (again, the numbers are wrong):

Average volume of air inspired is 120.15 ml with a standard deviation of 328.90 Average volume of air expired is 121.82 ml with a standard deviation of 561.20 The maximum difference between air inspired and expired is 289 for BN 1000 The minimum difference between air inspired and expired is 5 for BNs 1234 and 5678

or, if there are more than 2 breath numbers with the minimum difference, the last line would look like:

The minimum difference between air inspired and expired is 5 for BNs 1234, 3456, 4567, and 5678