# Joy and Beauty of Data, First Practicum – February 24, 2017

Name _____

Question One.  25 points.  Show a list with as few elements as possible where the **median** function returns a different answer than the **median_low** function.  Both functions are in the statistics module.

Question Two.  25 points.  Write a function named **count_characters**.  The function receives a list of strings.  It should return the total number of characters contained in all strings.

For example, the following statement should print **20**

print(count_characters(["You", "may", "say", "I'm", "a", "dreamer"]))

Question Three.  25 points.  Write a function named **my_reverse**.  The function receives a list of strings.  It should return the list in reverse order without using the built-in reverse function.

For example, the following statement should print **['dreamer', 'a', "I'm", 'say', 'may', 'You']**

print(my_reverse(["You", "may", "say", "I'm", "a", "dreamer"]))

Question Four. Complete the function below such that it creates a file that contains each integer from 1 through n on successive lines of the output file.

For example, **create_file("jbd.txt", 5)** should create a file named "jbd.txt" that contains 1 on the first line, 2 on the second line, 3 on the third line, 4 on the fourth line, and 5 on the fifth line.

def create_file(file_name, n):