Week 3 Assignment:

1. Write a recipe for and implement bubble-sort
2. Write a word count function. Unlike the function you made last week, count all words. Return a dictionary mapping words to counts
3. Make a function that rolls n, m sided die and adds the die roll. Make a function that repeats this above process k times and returns a dictionary with the results.
4. Plot the results of your prior function with different n, m and k values. What does each graph look like? Look at the documentation on simpleplot to see how to do this
5. Think about how we might represent a matrix in python. Based on your representation, make a function to add matrices
   1. If you have time, make a function to do multiplication as well (you can assume square matrices for the multiplication)
   2. What are the runtimes of these functions (assuming square matrices)?