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# Module 7 | Testing Assignment

I'm going to start off with what I originally planned to design my test cases. First off I went through the program and wrote down what the program planned to accomplish. Then I broke that goal down into smaller parts. The words application goal is to read files from a website that contained a poem.Then the program filled a hashmap with the words, counted duplicate words storing them as a key and the amount of occurrences as the value. Converted the map to a list, sorted it and then placed it back into a map. Thinking about the functions I thought I came to the conclusion I would be running testing on the sort by value function. I put all of this code into the function of counts.

I assumed I didn't need to test the following; Ability to read the URL, ability to fill the map, and the ability to print out the keys and values. So I would only need to test the ability to find the key and value if I repeatedly place words into the test. On paper I was feeling good but as soon as I went to code I ran into problems. First problem I ran into was the last iteration of the code I had written for the UI was completely unorganized because of my scrabeling trying to figure out how to get it working. It kept on trying to use the start method. I went back into my GitHub and found an older version of the word counter application. Then

I could not figure out how to add the dummy values for the test because the code was not written to get values from input, it was written to scan a URL. This led to all of my actual output being blank, every test was failed. I Feel like I am overthinking the problem again. I attempted to create a dummy map and filled it with values but the code would not allow me to fill the map I created and I am still not sure why. Now that i'm looking back on it i'm wondering if testing the ability to count the words and place them as keys and values is what I should have been doing. To do a unit test that truly represented the real world application I would have had to test at least multiple words that have been read multiple times. Without multiple words I can't test the ability to sort.