

This program has two parts to it. The first part is going to be using linked lists to store words from a text files named random dictionary. We must first make an array of linked list. We will need twenty six because there are twenty six letters in the alphabet. Then, I used a file reader algorithm to read in the file and then I changed the words in the text to all lower case.

The second part is reading the Oliver text file and comparing the words in that file to the linked list we created in part one. I used a string parser that would go line by line of the Oliver text and when a word started and there was a space it would count that as a word. I wanted to make the parser strict so I used if statements. The first if statement is if the word doesn't start with a dash then go with the first character. The second if statement is if the character is greater than 25 which would be outside the alphabet or its less than 0 then to go through the weird word fixer. The weird word fixer method fixes the issue with a word that has a special character in front of it. It will cycle through the whole word itself.

The last part of the program is the counters. There are four variables. They are 'words found', 'words not found', 'comparisons found', and 'comparisons not found'. Calculating the average comparisons found but comparisons found divided by words found. The average comparisons not found is calculated by comparisons not found divided by words not found.