//Class : CSCI301

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//section 2

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**Project 4: IMPLEMENTING A CONCORDANCE WITH A LINKED LIST**

**Introduction**

A concordance of a given text refers to statistical profile of usage of words. It provides us with alphabetical listing of all the distinct words and their respective concordance in the text. Generally concordances summarize the frequencies of words in text and are used in statistical analyses of authors' works and to determine authorship of disputed works.

**Data structures**

The assignment calls for using ifstream to read text from file and arrange it into just words and build a concordance linked list. I used vector array to temporarily store every space delimited string from text and copied all the words to a string array.

I used loop from 0 to array\_length to send each word to the linked list insert function.

**Functions**

**The programs::**

The programs are supposed to be more elegant versions but not necessarily efficient in the case of the palindrome detection.

**Conclusion**

The recursive implementation of these three programs does shorten the number of lines of code necessary to find the solution. However, the memory and time complexity of the programs isn’t necessarily made efficient by doing this.