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Programming Assignment4

AssignmentFour C202

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In this assignment four, we will implement a spell checker. First, We used a randomized dictionary(random\_dictionary.txt) given in the list of files, read in the dictionary(words in the random\_dictionary.txt file) into an array of 26 MyLinkedList objectsm one for each letter of the alphabet. In out programming the first Linked List contain only those words starting with letter 'a', while the last would contain only those words starting with the latter 'z', and all words are in lowercase.

Second, we read in the book (oliver.txt), we examine the first character of each word , and traverse one of the 26 Linked Lists. We read each word from the book be searched in the corresponding Linked List and if the word is no found, the word as misspelled or not in dictionary and count it as a word not found. If the word found , count it as a word found. We also count the number of string comparisons that are done during search. Maintain two counters for this, one is for the number of comparisons for words that were found in the dictionary, and the other is for the number of comparisons for words that were not found in the dictionary.

At the end of the program, we compute and display the average number of string comparisons for words that were found and the words that were not found.