

My Linked List Search

Assignment 4

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The task was given to spell check words from a given test. We were also given a list of random, un-alphabetized words to sort through. We took the dictionary and sorted the words into separate list by their first letter. While these smaller lists aren't alphabetized either, they provide a smaller search space when bringing in the words from the text to search. The algorithm used had a parser that ran the sorting method stated above by making and array referencing 26 different linked lists (based on letters in the alphabet). It then ran the same parser for the given text file, only instead of sorting the words, it merely searched the linked lists using a contains method and then add one to a counter if found, and to a different counter if not found. The results were a total of 992140 words checked, with 939673 being found and 52467 not found.