Quinten Bailey
Programming Assignment 4
Spellchecking with Linked Lists
11/1/15 11:59 PM

Spellchecking With Linked Lists

Quinten Bailey, Computer Science (Class of 2017) Research Advisor: Dr. Suranga Hettiarachchi

Spell checkers are present in nearly every word processor available today. It is a tool that many people have come to rely heavily upon. This program is similar to Program 2, but instead of searching recursively this program uses Linked Lists. An array of MyLinkedList objects is created and the randomized dictionary is loaded into this array one word at a time based on the first letter of the word. The ASCII value of the first character is used to determine which list to place the word into. The file being spell checked is then fed into the array one word at a time, again using the ASCII value of the first character of each work to search in the appropriate Linked List. The program needs to search less than Program 2 because all of the "a's" are in one list, the "b's" in another, and so on. Because of this, the program never has a much smaller search space.