

Spell Checker

Implement a spell checker by using a hash table. Assume that the dictionary comes from an existing large dictionary (use the file `dictionary.txt`). Output all misspelled words and the line numbers in which they occur. Also, for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:

- (a) Add one character.
- (b) Remove one character.
- (c) Exchange adjacent characters.

Some additional notes:

- Call your program `SpellCheck`. If we are to run your program on a text file called `FinalPaper.txt`, should be called like this:
`SpellCheck FinalPaper.txt dictionary.txt`
- Internally, your program should read the dictionary into a hash table. You may use the code from the textbook or the built in `HashMap` class.
- Then you should perform lookups for each word, and if a word is not found, perform the appropriate lookups for the suggestions.
- Note that while I stripped all non-alphabetical characters from the dictionary file, there are still both upper and lowercase letters.