York University

Dept. of Computer Science and Engineering

CSE2031 Software Tools

Assignment 4

Due Last Day of Classes

Write an ANSI C program to do the following.

The program opens and reads from a file "text4.data" a number of words (max. 50) with a maximum length per word of 20. The words are separated by white spaces. These are the dictionary words.

The program reads from the standard input one word (ignoring any white spaces before the word), then a new line.

If the word is in the dictionary, the program displays

O.K. followed by a new line) and continue to read the next word.

If the word is not in the dictionary, the program looks for a word that differs only in one single character (same length) if found the program displays the phrase possible hits, then the words that differ in only one character one word at a line **followed by a newline**.

If no word differs in one character only, the program looks for a word that differs in ~~one~~ **2** character**s** only, and does the same.

If the word differs in 3 or more, do not display anything

The program is terminated y reading an empty line (or a line consists only of white spaces).

The file should be opened as :"../../text4.data"

Example: the dictionary files contains the words **cab apple orange,** the following box shows a possible scenario, where the input is in **bold**

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cab
O.K.
apble
possible hits
apple
obamge
possible hits
orange