

COMP1602: Computer Programming II

Assignment #5

Date Due: 18th April, 2019 @ 11:55 p.m.

Part B

This part of the assignment modifies the program written in Part A.

Your program should display the following menu:

Dictionary Checker

1. Load Synonyms
2. Search Synonyms
3. Display Words and Synonyms
4. Parse Sentence
5. Quit

Please enter an option:

When an option is selected, the appropriate action must be taken, after which the menu is redisplayed:

1. When this option is selected, the program should open the file, *synonyms.txt*, and read each word and its synonyms into the 2D array as was done in Part A.

In addition, words are read from a file, *dictionary.txt*, which contains the words in a dictionary and stores them in an array *dictionary* in sorted order. There are at most 500 words in the dictionary. The number of words in the dictionary is kept.

2. This option does the same as option 2 in Part A.
3. This option does the same as option 3 in Part A.
4. When this option is selected, the program should allow the user to type in a sentence. When the sentence is input, each word is checked in *dictionary* to determine if it is there. A binary search is used to determine if *dictionary* contains the word.

If it is not there, a check is made in the synonym table from Part A. If a synonym is found and the synonym is present in dictionary, the word is OK. If no synonyms are found that are in the dictionary, an error is flagged (a sentence can contain more than one errors). The words that are errors are printed. If there are no errors, an appropriate message is printed.

Submission Instructions

Only one .cpp file is to be submitted to myElearning by the deadline date. The .cpp file contains the program for parts A and B.

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