

CS 3304 Data and Information Structures

Lab – Chapter 12

This lab is adapted from Programming Problems #25 in page 718.

Write a spell checker, that is, a program that reads the words in a piece of text and looks up each of them in a dictionary to check its spelling. Use a BST to store this dictionary, reading the list of words from a file. While checking the spelling of words in a piece of text, the program should print a list of all words not found in the dictionary.

Requirements:

1. Use linked implementation of BST.
2. Construct the tree by inserting the words read from a text file. Your program should prompt the user for the file name and path. A listing of the dictionary should be printed on screen before spell checking. A sample dictionary file is provided.
3. The piece of text for which words are checked should be read from a text file as well, and your program should prompt the user for the input file name and path. The entire text to check should be printed on screen, followed by the listing of the words that are not found in the dictionary. A sample input text file is provided.
4. Spell checking is case sensitive.
5. Write a C++ program and use Visual Studio 2012 to test your program. When testing your program, use “general” application and “empty” project, and make sure all output are properly displayed on screen.
6. Submit the C++ source files (.cpp and .h files) and any dictionary file and/or test input files you create in Blackboard by the due date.