Programming Assignment 2 checklist

|  |  |  |
| --- | --- | --- |
| For The overall work | Yes/no? | Notes |
| The program did not change any of the interface to the class (the prototypes of the public functions) between using an AVL tree and using a hash table.  (Any modifications to the Dictionary class for Part 1 or to the interface of the Dictionary class for Part 2 constitute failure to follow the assignment.) |  |  |
| The quality of the interface : what the interface of this program looks like – is it easy to use or user-friendly? |  |  |
| Extra credit by improving on the algorithm for producing possible words to check. (Extra credit applies **only** to Part 1 or Part 2 programs.):  Does the programs provide any more rules to correct each misspelled word other than rules 1, 2, and 3? |  |  |

|  |  |  |
| --- | --- | --- |
| Part1:  For the submitted programs **using an AVL tree for dictionary:** | Yes/no? | Notes |
| Build a dictionary of correctly spelled words by reading the words from the files dict.txt? |  |  |
| ask the user for the name of a text file to spell check |  |  |
| read the input text file to spell check? |  |  |
| print to standard output a list of misspelled words and the line numbers on which they occur |  |  |
| for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:   1. Add one letter to the word (at any position) |  |  |
| for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:   1. Remove one letter from the word |  |  |
| for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:   1. Exchange adjacent characters |  |  |
| Comments in Source Programs |  |  |

|  |  |  |
| --- | --- | --- |
| Part 2:  For the submitted programs **using a hash table for dictionary**: | Yes/no? | Notes |
| build a dictionary of correctly spelled words by reading the words from the files dict.txt? |  |  |
| ask the user for the name of a text file to spell check |  |  |
| read the input text file to spell check? |  |  |
| print to standard output a list of misspelled words and the line numbers on which they occur |  |  |
| for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:  1. Add one letter to the word (at any position) |  |  |
| for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:   1. Remove one letter from the word |  |  |
| for each misspelled word, list any words in the dictionary that are obtainable by applying any of the following rules:   1. Exchange adjacent characters |  |  |
| Use the hash function from figure 5.4 in page 195. |  |  |
| Use quadratic probing to resolve collisions. |  |  |
| Rehash when the array becomes 50% full.  (when rehashing, the new hash table must be at least twice larger than the old hash table and its size must be a prime number) |  |  |
| Use hash tables whose sizes are prime numbers |  |  |
| Comments in Source Programs |  |  |