

Exercise 1

Two words are anagrams if one word can be formed by rearranging all the letters of the other word, for example: treason, senator. A word is represented as a linked list with one letter per node of the list.

Write a method that, given two linked lists w1 and w2, each representing a word of lowercase letters, returns true if the words are anagrams and false if they are not.

Base your algorithm on the following: for each letter in w1, search w2 for it; if found, delete it and continue; otherwise, return false.

Exercise 2

Write a java code to put the information of visitors inside an elevator into a stack.

To do that insert the following information into the class NodeData “String name and float weight”.

In your test class you should test you should:

- Enter many visitor(name and weight) into the stack
- Calculate the total weight
- Once the total weight of visitors exceeds the elevator capacity,

the program indicates the name of visitors to get out.

Hints: Use Stack with the same classes of Node and Stack explained in class