Online on Binary Search Tree + Graphs

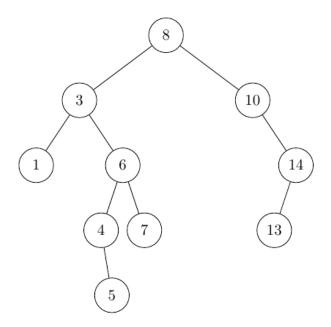
Section: B1 + B2 Time: 40 minutes

Problem: Implement Level-Order traversal in a binary search tree

The function virtual void print(char traversal_type = 'D') const = 0; in your abstract class BST in the BST.hpp file now takes in 'L' or 'l' as another traversal_type for Level-Order traversal. Implement the corresponding print logic in the void print(char traversal_type = 'D') const override function in your implemented ListBST class in the listBST.hpp file. Modify your main function in task1.cpp to receive the input command T Lev, for which you will output the current tree in level-order.

Note:

- 1. You are NOT allowed to modify any other existing function in the ListBST class. However, you may add private helper functions if necessary.
- 2. You are NOT allowed to include/use any STL functions. However, you are free to use any of the code you used in your BST and Graph assignment.
- 3. Please refer to in b.txt and out b.txt for sample I/O.



The level-order traversal of the above binary search tree (only keys shown) is (8:8) (3:3) (10:10) (1:1) (6:6) (14:14) (4:4) (7:7) (13:13) (5:5)