

Design and Analysis of Algorithms

Lab 4

Trees

Objectives

After this lab, the student should be able to

- Implement tree traversal

Requirements

1. Right View of a Tree

Given a Binary Tree, print Right view of it. Right view of a Binary Tree is set of nodes visible when tree is visited from Right side.

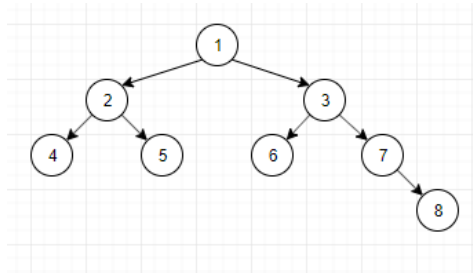
The input format will be as follows:

- The first line will contain the number of nodes in the tree N.
- The following N numbers will contain the data in each node.
- The next line will contain the number of edges in the tree E.
- The following E lines will contain 3 values:
 - L or R to represent if this is a left or right child
 - Index of the parent.
 - Index of the child.

Output format should be:

- The nodes visible from the right view. Print parents first.

Example:



Sample Input:

8

1 2 3 4 5 6 7 8

7

L 0 1

R 0 2

L 1 3

R 1 4

L 2 5

R 2 6

R 6 7

Sample Output:

1 3 7 8