Stained notes

Team ID: 45

Team Member: B02501124 B02501003 B02501007

1. Topic

Binary tree's inorder traversal

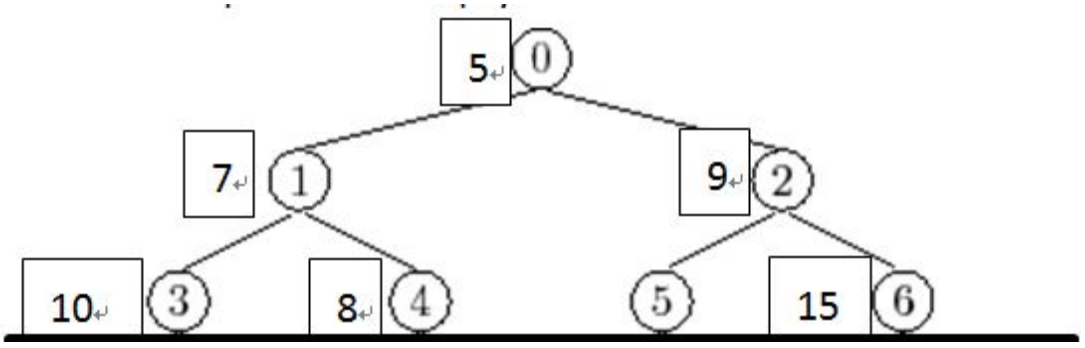
2. Description

Jim is so diligent in study that him never go to bed before 4 a.m. To keep himself energetic until bed, he always has some snacks. Today, he has a cup of instant noodle. However, he spilt the cup noodle on his DSA notes. Now he can't read the answer of "inorder traversal" exercises. Fortunately, the question parts are still clear. Cloud you write a program to solve all the problems and tell Jim the right answers?

3. Input and output format

Input:

The first number tells how many binary trees you are going to deal with.
Every two lines of the following will be a set :
The first line will show you the number of nodes for that binary tree.
And the second line gives the value in every nodes of that binary tree with a vector-based.
For example, if I am going to give you the tree in the picture below, I will input: 5 7 9 10 8 -1 15. Input -1 for empty node.



(There will be a space between numbers, but no space after the last number.)
In the end you will get m*2+1 lines as input if the first number is m.

(You can use int to solve this problem.)

Output:

The inorder teaversals you transferred.

4. Sample input and output

Input:
2
10
1 2 3 4 5 6 7 8 9 10
3
1 2 3
Output:
8 4 9 2 10 5 1 6 3 7
2 1 3
(OUTPUT FORMAT:
THERE IS A SPACE AFTER THE LAST NUMBER OF EACH LINE.
ALSO HAS A “\n” BETWEEN EVERY TREE.
BUT NO “\n” FOR THE LAST LINE OF THE LAST TREE.)

5. Time and memory limit

請助教幫忙測
最大的檔案在工作站跑大概6秒