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EASY

Max Score: 20 Points

Binary Tree Preorder Traversal

Given the root of a binary tree, return the preorder traversal of its nodes" values.

Note: You just need to implement the preorderTraversal() function. Input and output have been handled in the driver code.

Input Format

First line contains a string representing the tree as described below.

The values in the string are in the order of level order traversal of the tree where, numbers denote node values, and a character "N" denotes NULL child.

Output Format

Print the preorder traversal of the tree.

Example 1

Input

6 5 6 1 1 N 6

Output

6 5 1 1 6 6

Explanation

The given tree can be represented as:-



The preorder traversal of the tree is :- 6 5 1 1 6 6

Example 2

Input

1 2 3 2 2 N 6 2 N N N N N N N

Output

1 2 2 2 2 3 6

Explanation

The given tree can be represented as: -



The preorder traversal of the tree is :- 1 2 2 2 2 3 6

Constraints

- The number of nodes in the tree is in the range [0, 104].
- -1000 <= Node.val <= 1000
- The depth of the tree will not exceed 1000.

Topic Tags

Trees

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;
class Node
  int data;
  Node next ,prev;
  Node(int data, Node next, Node prev)
  {
     this.data = data;
     this.next = next;
     this.prev = prev;
  }
  Node() {}
public class Main
 static Node insert(Node root,int n)
  if(root==null)
    root=new Node(n,null,null);
  return root;
```

```
else if(n< root.data)
    root.prev= insert( root.prev, n);
  else if(n>root.data)
    root.next= insert( root.next, n);
  return root;
static void preorder(Node root)
 {
  if(root !=null)
    System.out.print(root.data+" ");
    preorder(root.prev);
    preorder(root.next);
  }
     public static void main (String[] args) throws java.lang.Exception
           //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
    //int arr[]=new int[n];
    Node root=null;
    for(int i=0;i< n;i++)
    int m=s.nextInt();
     root=insert( root, m);
     preorder(root);
       }
}
```