https://course.acciojob.com/idle?question=e5bc5b24-fb3f-4112-9bb0-461f44306650

- HARD
- Max Score: 50 Points

Left view of binary tree

Given the `root` node of a BST, print its left view i.e print all the nodes from top to bottom that will appear while looking the tree from left.

Input Format

The first line contains an integer n, the number of nodes.

The next line inputs the value of n nodes.

Output Format

Print the left view of the tree as a single line of space-separated values.

Example 1

Input

```
6
1 2 5 3 4 6
```

Output

```
1 2 5 3 4
```

Explanation

```
The BST is like :-
     1
      \
       2
        \
         5
        /  \
       3    6
        \
         4
So,the left view of tree results in 1,2,5,3,4 as the required result. only 6 is not
visible from left view
```

Example 2

Input

```
3
1 2 3
```

Output

```
1 2 3
```

Explanation

```
The BST is like :-
       1
         \
           2
```

```
             \
              3
So,the left view will have all three nodes.
```

Constraints:

```
1 <= n <= 500
-100 <= val[node] <= 100
```

Topic Tags

- Trees

My code

```
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 int compare_hight=0;  //use for level order flag
static void  left_view(Node root,int h)
  {

    if(root !=null)
    {
      if(h==compare_hight)
        {
        System.out.print(root.data+" ");
        compare_hight++;
        }
      left_view(root.prev,h+1);
      left_view(root.next,h+1);
    }
  }
            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);
      }

        left_view(root,0);
              }
}
```