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Tree : Top View

locked

by [vatsalchanana](#)

Problem

Submissions

Leaderboard

Discussions

You are given a pointer to the root of a binary tree. Print the top view of the binary tree.

Top view means when you look the tree from the top the nodes, what you will see will be called the top view of the tree. See the example below.

You only have to complete the function.

For example :



Top View : 1 -> 2 -> 5 -> 6

Input Format

You are given a function,

```
void topView(node * root) {  
  
}
```

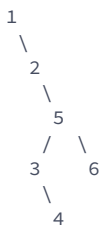
Constraints

$1 \leq \text{Nodes in the tree} \leq 500$

Output Format

Print the values on a single line separated by space.

Sample Input



Sample Output

1 2 5 6

Explanation



From the top only nodes 1,2,5,6 will be visible.

f t in

Submissions: 162

Max Score: 10

Difficulty: Easy

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☆☆☆☆☆

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C++14



```
1 #include<bits/stdc++.h>
2
3 using namespace std;
4
5 class Node {
6 public:
7     int data;
8     Node *left;
9     Node *right;
10    Node(int d) {
11        data = d;
12        left = NULL;
13        right = NULL;
14    }
15 };
16
17 class Solution {
18 public:
19     Node* insert(Node* root, int data) {
20         if(root == NULL) {
21             return new Node(data);
22         } else {
23             Node* cur;
24             if(data <= root->data) {
25                 cur = insert(root->left, data);
26                 root->left = cur;
27             } else {
28                 cur = insert(root->right, data);
29                 root->right = cur;
30             }
31         }
32         return root;
33     }
34 };
35
36 /*
37 class Node {
38 public:
39     int data;
40     Node *left;
41     Node *right;
42     Node(int d) {
43         data = d;
44         left = NULL;
45         right = NULL;
46     }
47 };
48 */
```

```
47
48 */
49
50 void topView(Node * root) {
51
52
53 }
54 }; //End of Solution
55
56 int main() {
57
58     Solution myTree;
59     Node* root = NULL;
60
61     int t;
62     int data;
63
64     std::cin >> t;
65
66     while(t-- > 0) {
67         std::cin >> data;
68         root = myTree.insert(root, data);
69     }
70
71     myTree.topView(root);
72
73     return 0;
74 }
75
```

Line: 21 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code