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Tree : Top View ★

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Problem

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Given a pointer to the root of a binary tree, print the top view of the binary tree.

The tree as seen from the top the nodes, is called the top view of the tree.

For example:

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

Complete the function *topView* and print the resulting values on a single line separated by space.

Input Format

You are given a function,

Constraints

 $1 \leq$ Nodes in the tree ≤ 500

Output Format

Print the values on a single line separated by space.

Sample Input



Privacy - Terms

Tree: Top View | HackerRank

Sample Output

1256

Explanation



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

```
Change Theme Language Python 3
                                                                                                      1
                                                                                                          K 27 ...
 1
     class Node: ...
36
37
38
     Node is defined as
     self.left (the left child of the node)
39
     self.right (the right child of the node)
40
41
     self.info (the value of the node)
42
     from collections import deque
43
44
     def topView(root):
45
46
         #Write your code here
47
         ans = []
48
         mpp = \{\}
49
         q = deque([(root, 0)])
50
         while q:
             node, line = q.popleft()
51
52
             if line not in mpp:
                 mpp[line] = node.info
53
             if node.left:
54
                 q.append((node.left, line-1))
             if node.right:
56
                 q.append((node.right, line+1))
57
58
         for k,v in sorted(mpp.items()):
59
             ans.append(v)
         print(" ".join(map(str, ans)))
60
61
```

EMACS Line: 1 Col: 1

1 Upload Code as File Test against custom input

Run Code

Submit Code

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40% Problem Solving ***	311/475	
Congratulat You solved this challeng	ions ge. Would you like to challenge your friends?	Next Challenge
	Compiler Message Success	
	Input (stdin)	Download
	2 1 2 5 3 6 4	
	Expected Output	Download
	1 2 5 6	

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