

X

Tree: Level Order Traversal







Your Tree: Level Order Traversal submission got 20.00 points.

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Problem

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Given a pointer to the root of a binary tree, you need to print the level order traversal of this tree. In level-order traversal, nodes are visited level by level from left to right. Complete the function *levelOrder* and print the values in a single line separated by a space.

For example:

For the above tree, the level order traversal is 1->2->5->3->6->4.

Input Format

You are given a function,

```
void levelOrder(Node * root) {
```

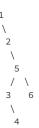
Constraints

 $1 \leq$ Nodes in the tree ≤ 500

Output Format

Print the values in a single line separated by a space.

Sample Input



Sample Output

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125364

Explanation

We need to print the nodes level by level. We process each level from left to right.

Level Order Traversal: 1->2->5->3->6->4.

```
Change Theme
                                                                  Language Python 3
 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
     self.info (the value of the node)
41
42
     from collections import deque
43
44
     def levelOrder(root):
45
46
         #Write your code here
47
         q = deque([root])
         while q:
48
49
             node = q.popleft()
             print(node.info, end=" ")
50
51
             if node.left:
52
                 q.append(node.left)
53
             if node.right:
54
                 q.append(node.right)
55
```

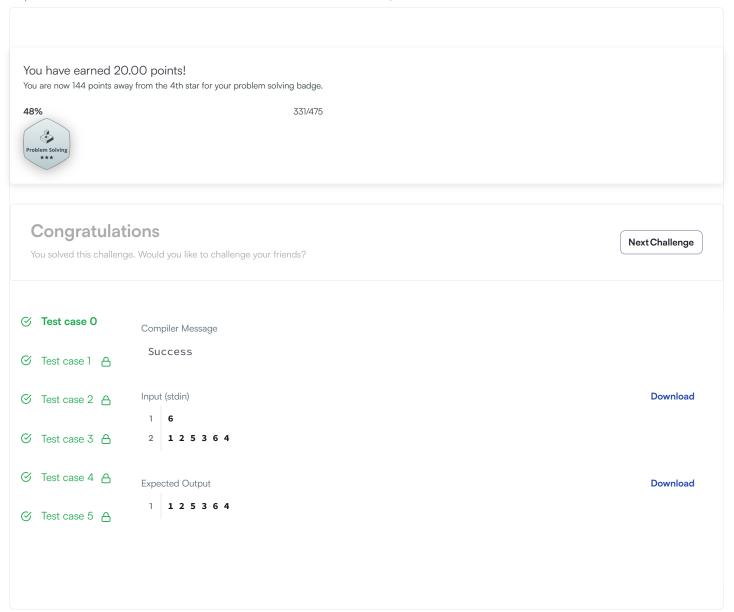
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Test against custom input

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