



Tree: Level Order Traversal ★

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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

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

Output Format

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

Sample Input



Sample Output

1 2 5 3 6 4

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**.

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Language

Python 3



```
1 class Node: ...
36
37 """
38 Node is defined as
39 self.left (the left child of the node)
40 self.right (the right child of the node)
41 self.info (the value of the node)
42 """
43 from collections import deque
44
45 def levelOrder(root):
46     #Write your code here
47     q = deque([root])
48     while q:
49         node = q.popleft()
50         print(node.info, end=" ")
51         if node.left:
52             q.append(node.left)
53         if node.right:
54             q.append(node.right)
55     ...
```

EMACS

Line: 1 Col: 1



Upload Code as File



Test against custom input

Run Code

Submit Code

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48%



Problem Solving

331/475

Congratulations

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You solved this challenge. Would you like to challenge your friends?

✔ Test case 0

Compiler Message

✔ Test case 1 

Success

✔ Test case 2 

Input (stdin)

1

6

2

1 2 5 3 6 4

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✔ Test case 4 

Expected Output

1

1 2 5 3 6 4

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✔ Test case 5 