



Tree: Level Order Traversal

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Problem

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You are 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, we visit the nodes level by level from left to right. You only have to complete the function. 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.

Easy

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Python 2



```
1 from collections import deque
2 """
3 Node is defined as
4 self.left (the left child of the node)
5 self.right (the right child of the node)
6 self.data (the value of the node)
7 """
8 def levelOrder(root):
9     d=deque()
10    d.append(root)
11    while(d):
12        temp=d[0]
13        print temp.data,
14        if temp.left:
15            d.append(temp.left)
16        if temp.right:
17            d.append(temp.right)
18        d.popleft()
19
20
```

Line: 18 Col: 9

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Testcase 0

Congratulations, you passed the sample test case.

Click the [Submit Code](#) button to run your code against all the test cases.

Input (stdin)

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

Your Output (stdout)

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

Expected Output

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