

Tree: Level Order Traversal

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 ≤ Nodes in the tree ≤ 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**.