

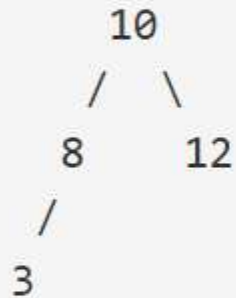
Populate Inorder Successor for all nodes

Medium Accuracy: 47.39% Submissions: 15396 Points: 4

Given a Binary Tree, write a function to populate next pointer for all nodes. The next pointer for every node should be set to point to inorder successor.

Example 1:

Input :

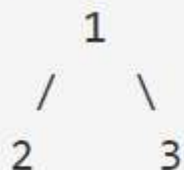


Output: 3->8 8->10 10->12 12->-1

Explanation: The inorder of the above tree is : 3 8 10 12. So the next pointer of node 3 is pointing to 8 , next pointer of 8 is pointing to 10 and so on. And next pointer of 12 is pointing to -1 as there is no inorder successor of 12.

Example 2:

Input :



Output: 2->1 1->3 3->-1

Your Task:

You do not need to read input or print anything. Your task is to complete the function **populateNext()** that takes the root node of the binary tree as input parameter.

Expected Time Complexity: $O(N)$

Expected Auxiliary Space: $O(N)$

Constraints:

$1 \leq n \leq 10^5$

$1 \leq \text{data of the node} \leq 10^5$

Topic Tags



○ Tree