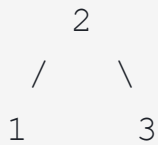


Remove a node from BST

Given a Binary Search Tree and a node value X. Delete the node with the given value X from the BST. If no node with value x exists, then do not make any change.

Example 1:

Input:



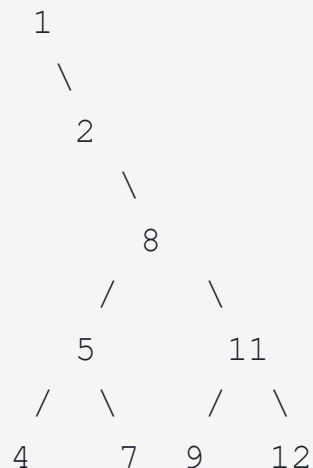
X = 12

Output: 1 2 3

Explanation: In the given input there is no node with value 12 , so the tree will remain same.

Example 2:

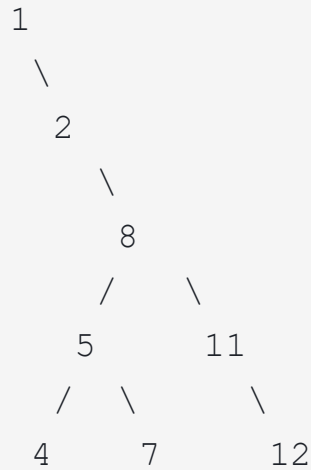
Input:



X = 9

Output: 1 2 4 5 7 8 11 12

Explanation: In the given input tree after deleting 9 will be



Your Task:

You don't need to read input or print anything. Your task is to complete the function **deleteNode()** which takes two arguments. The first being the root of the tree, and an integer '**X**' denoting the node value to be deleted from the BST. Return the root of the BST after deleting the node with value X. Do not make any update if there's no node with value X present in the BST.

Note: The generated output will be the inorder traversal of the modified tree.

Expected Time Complexity: O(Height of the BST).

Expected Auxiliary Space: O(Height of the BST).

Constraints:

$1 \leq N \leq 10^5$