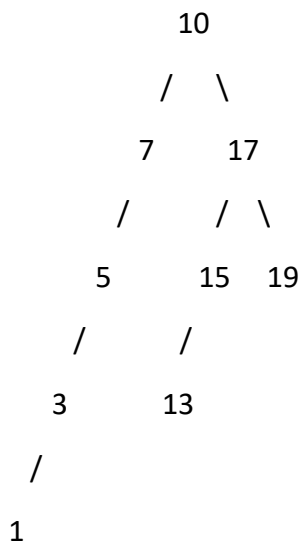
Convert Binary Search Tree to Min Heap CodeStudio

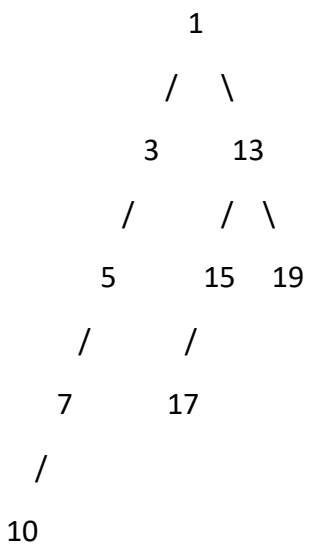
You are given a 'ROOT' of a binary search tree of integers. The given BST is also a complete binary tree.

Your task is to convert the given binary search tree into a Min Heap and print the preorder

Example:



Output:



Approach 1: Main function to convert a BST to a Min Heap

- **Function Purpose:** Convert a given Binary Search Tree (BST) into a Min Heap.
- **Explanation:**

    - The program first performs an inorder traversal of the BST using Morris Traversal and stores the values in the **inorderAns** vector.
    - It then initializes an index pointing to the beginning of the vector and calls the **convertBSTToMinHeapHelper** function, which performs a regular inorder traversal and assigns values from the vector back to the tree.
    - The vector values are assigned to the BST nodes in inorder, effectively converting it to a Min Heap.
- **Time Complexity: O(n), where n is the number of nodes in the BST.**
- **Space Complexity: O(n) for the vector storing inorder traversal values.**