Convert Binary Search Tree to Min Heap [CodeStudio](https://www.codingninjas.com/studio/problems/convert-bst-to-min-heap_920498?leftPanelTab=0)

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:

10

/ \

7 17

/ / \

5 15 19

/ /

3 13

/

1

Output:

1

/ \

3 13

/ / \

5 15 19

/ /

7 17

/

10

**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.**