**[Convert Binary Search Tree to Sorted Doubly Linked List](https://leetcode.com/problems/convert-binary-search-tree-to-sorted-doubly-linked-list/)**

**class Solution {**

**Node prev = null;**

**public Node treeToDoublyList(Node root) {**

**if(root == null) {**

**return null;**

**}**

**Node dummy = new Node(-1);**

**prev = dummy;**

**helper(root);**

**prev.right = dummy.right;**

**dummy.right.left = prev;**

**return dummy.right;**

**}**

**public void helper(Node root) {**

**if(root == null) {**

**return;**

**}**

**helper(root.left);**

**Node node = new Node(root.val);**

**prev.right = node;**

**node.left = prev;**

**prev = node;**

**helper(root.right);**

**}**

**}**

Time complexity : O(m) ,n is no of nodes in tree

Space Complexity : O(1) ,constant space