# 36. 二叉搜索树与双向链表

[NowCoder](https://www.nowcoder.com/practice/947f6eb80d944a84850b0538bf0ec3a5?tpId=13&tqId=11179&tPage=1&rp=1&ru=/ta/coding-interviews&qru=/ta/coding-interviews/question-ranking&from=cyc_github)

## 题目描述

输入一棵二叉搜索树，将该二叉搜索树转换成一个排序的双向链表。要求不能创建任何新的结点，只能调整树中结点指针的指向。

## 解题思路

private TreeNode pre = null;
private TreeNode head = null;

public TreeNode Convert(TreeNode root) {
 inOrder(root);
 return head;
}

private void inOrder(TreeNode node) {
 if (node == null)
 return;
 inOrder(node.left);
 node.left = pre;
 if (pre != null)
 pre.right = node;
 pre = node;
 if (head == null)
 head = node;
 inOrder(node.right);
}