

450. Delete Node in a BST

作者: qianrong wu

思路

1、当前删除位置，用左边子树的最大值的节点替换 或者是 2、用右边子树的最小值的节点替换

Java Code

```
public class Solution {
    public int findReplacement(TreeNode parent,TreeNode node,boolean isLeft){
        if(node.right == null){
            if (isLeft)
                parent.left = node.left;
            else parent.right = node.left;
            return node.val;
        }
        return findReplacement(node,node.right,false);
    }
    public TreeNode deleteNode(TreeNode root, int key) {
        if(root==null)
            return null;
        if(root.val == key){
            if(root.left == null)
                return root.right;
            if(root.right == null)
                return root.left;
            root.val = findReplacement(root,root.left,true); // 选择左边最大的，或者右边最
            小的
        } else{
            if(root.val > key)
                root.left = deleteNode(root.left,key);
            else
                root.right = deleteNode(root.right,key);
        }
        return root;
    }
}
```