

# 222. Count Complete Tree Nodes (need to review)

[link](#)

优化可以达到 $(\log n)^2$ , 可以根据右子树的高度来判断右边是不是完全二叉树.

```
public int getCount(TreeNode root){
    if(root == null) return 0;
    int leftHeight = getHeight(root.left);
    int rightHeight = getHeight(root.right);
    if(rightHeight == leftHeight){
        return (int)Math.pow(2, leftHeight) + getCount(root.right);
    }
    return (int)Math.pow(2, rightHeight) + getCount(root.left);
}
```

## bfs

```
public int helper(TreeNode root){
    if(root == null) return 0;
    Queue
```

## dfs

```
public int getCount(TreeNode root){
```

```
    if(root == null) return 0;
    if(root.left == null && root.right == null)
        return 1;
    int left = getCount(root.left);
    int right = getCount(root.right);
    return left + right + 1;
}
```