

一、题目说明

题目236. Lowest Common Ancestor of a Binary Tree, 在一个二叉树中找两个节点的最近公共祖先。
难度是Medium!

二、我的解答

这个用二叉树的递归遍历，稍加改造即可：

```
class Solution{
public:
    TreeNode* lowestCommonAncestor(TreeNode* root,TreeNode*p,TreeNode*q){
        if(root == NULL) return root;
        if(root == p || root==q) return root;
        TreeNode* left,*right;
        left = lowestCommonAncestor(root->left,p,q);
        right = lowestCommonAncestor(root->right,p,q);
        if(left !=NULL && right!=NULL){
            return root;
        }else if(left != NULL){
            return left;
        }else if(right != NULL){
            return right;
        }else{
            return NULL;
        }
    }
};
```

性能如下：

Runtime: 16 ms, faster than 94.88% of C++ online submissions for Lowest Common Ancestor of a Binary Tree.
Memory Usage: 16.7 MB, less than 87.27% of C++ online submissions for Lowest Common Ancestor of a Binary Tree.

三、优化措施

其他方法，暂时想不起来。