#15 Days of Coding Challenge
#Day 11

Lowest common ancestor of a binary tree
#Leetcode 236

Solution:


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

    }
};
```

Time Complexity: O(n)
Space Complexity: O(h)