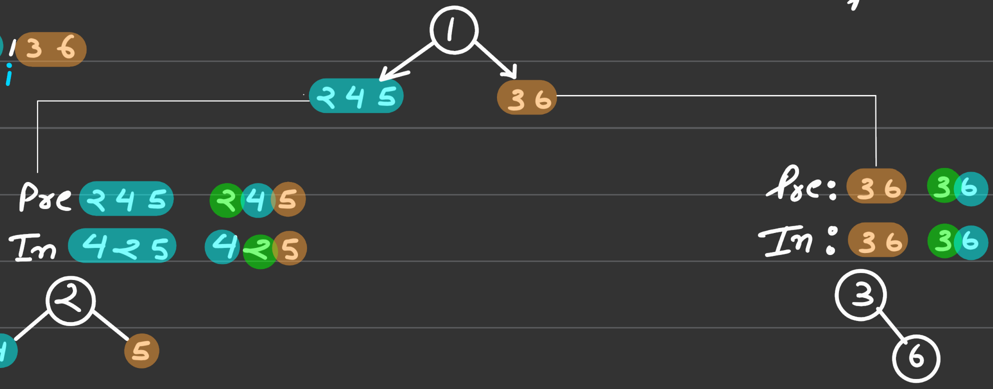
LEET CODE:105

By Priyansh

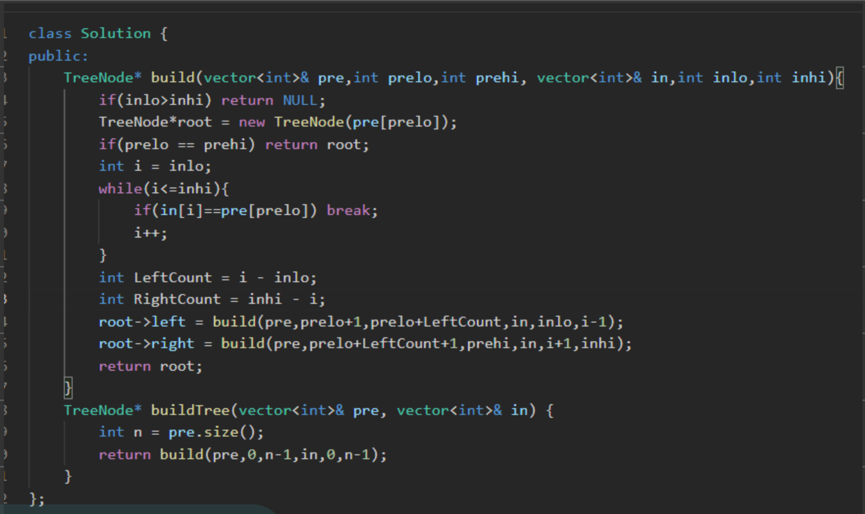
Pre : 1 2 4 5 3 6   pre ka first element = root of our tree as pre=RLR

In : 4 2 5 | 3 6
i



↳ Base condition
if Prelo == Prehi
or
Inlo == Inhi
return newTreeNode*(arr[Prelo])
or
[Prehi]

Coding Implementation: (Please dryrun at the time of revis-ion)



```
class Solution {
public:
    TreeNode* build(vector<int>& pre,int prelo,int prehi, vector<int>& in,int inlo,int inhi){
        if(inlo>inhi) return NULL;
        TreeNode*root = new TreeNode(pre[prelo]);
        if(prelo == prehi) return root;
        int i = inlo;
        while(i<=inhi){
            if(in[i]==pre[prelo]) break;
            i++;
        }
        int LeftCount = i - inlo;
        int RightCount = inhi - i;
        root->left = build(pre,prelo+1,prelo+LeftCount,in,inlo,i-1);
        root->right = build(pre,prelo+LeftCount+1,prehi,in,i+1,inhi);
        return root;
    }
    TreeNode* buildTree(vector<int>& pre, vector<int>& in) {
        int n = pre.size();
        return build(pre,0,n-1,in,0,n-1);
    }
};
```