Problem Link:

<https://leetcode.com/problems/find-the-number-of-ways-to-place-people-ii/?envType=daily-question&envId=2025-09-03>

Solution:

/\*\*

\* Definition for a binary tree node.

\* struct TreeNode {

\* int val;

\* TreeNode \*left;

\* TreeNode \*right;

\* TreeNode() : val(0), left(nullptr), right(nullptr) {}

\* TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}

\* TreeNode(int x, TreeNode \*left, TreeNode \*right) : val(x), left(left), right(right) {}

\* };

\*/

class Solution {

TreeNode\* p = nullptr;

int c = 0;

int m = 0;

vector<int> v;

void inorder(TreeNode\* root) {

if(!root)

return;

inorder(root->left);

if(p && root->val == p->val)

{

c++;

}

else

{

c = 1;

}

if(c == m)

{

v.push\_back(root->val);

}

else if(c > m)

{

m = c;

v.clear();

v.push\_back(root->val);

}

p = root;

inorder(root->right);

}

public:

vector<int> findMode(TreeNode\* root) {

inorder(root);

return v;

}

};