## 515. Find Largest Value in Each Tree Row

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## <u>Description</u> SubmissionsSolutions

Total Accepted: 9161Total Submissions: 17258

• Difficulty: Medium

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You need to find the largest value in each row of a binary tree.

## **Example:**

```
Input:

1
/\
3 2
/\\
5 3 9

Output: [1, 3, 9]
```

```
{
         if(root==NULL) return;
         int val = root->val;
         if(!mem.count(depth)) mem[depth] = vector<int>();
         mem[depth].push_back(val);
         InorderTree(root->left,depth+1,mem);
         InorderTree(root->right,depth+1,mem);
    }
    vector<int> largestValues(TreeNode* root) {
         unordered_map<int,vector<int>> mem;
         InorderTree(root,0,mem);
         vector<int> res;
         for(int i=0;i<mem.size();i++)</pre>
         {
              vector<int> tp = mem[i];
              int tmp = INT_MIN;
              for(auto it:tp)
              {
                   tmp = max(tmp,it);
              }
              res.push_back(tmp);
         }
         return res;
     }
};
```