Duplicate Subtrees

class Solution {

Map<String,Integer> map;

List<TreeNode> result;

public List<TreeNode> findDuplicateSubtrees(TreeNode root)

{

map=new HashMap<>();

result=new ArrayList<>();

duplicate(root);

return result;

}

public String duplicate(TreeNode root)

{

if(root==null)

return "#";

String s=root.val + "," + duplicate(root.left) + "," + duplicate(root.right);

map.put(s,map.getOrDefault(s,0)+1);

if(map.get(s)==2)

{

result.add(root);

}

return s;

}

}