501. Find Mode in Binary Search Tree



Given a binary search tree (BST) with duplicates, find all the mode(s) (https://en.wikipedia.org/wiki/Mode_(statistics)) (the most frequently occurred element) in the given BST.

Assume a BST is defined as fall and a fal

Assume a BST is defined as follows:

- The left subtree of a node contains only nodes with keys less than or equal to the node's key.
- The right subtree of a node contains only nodes with keys greater than or equal to the node's key.
- Both the left and right subtrees must also be binary search trees.

For example:

Given BST [1,null,2,2],

```
1
```

return [2].

Note: If a tree has more than one mode, you can return them in any order.

Follow up: Could you do that without using any extra space? (Assume that the implicit stack space incurred due to recursion does not count).

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```
__init__(self, x):
self.val = x
self.left = None
    #
 4
 5
                self.right = None
 6
    #
    class Solution(object):
9
         def findMode(self, root):
10
11
             :type root: TreeNode
12
             :rtype: List[int]
13
14
15
             if root==None:
                  return []
17
18
19
             def preorder(root,traversal):
20
                  if root:
21
                      traversal.append(root.val)
22
                      preorder(root.left,traversal)
23
                      preorder(root.right,traversal)
24
                  return traversal
25
             nums=preorder(root,[])
26
27
28
             for num in nums:
29
                  if num in d:
30
                      d[num]+=1
```

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