









Challenge 3: Find Ancestors of a given node in a BST

If you are given the root to a Binary Search Tree and a node value "k", can you write a code to find the ancestor of that node? A solution is placed in the "solution" section for your help, but we would suggest you to solve it on your own first.

We'll cover the following

- Problem Statement
 - Output
 - Sample Input
 - Sample Output
- Coding Exercise

Problem Statement

Implement the findAncestors(root, k) function which will find the ancestors of the node whose value is "k". Here root is the root node of a binary search tree and k is an integer value of node whose ancestors you need to find. An illustration is also given. Your code is evaluated on the tree given in the example.

Output

Returns all the ancestors of k in the binary tree in a Python list.



Sample Input





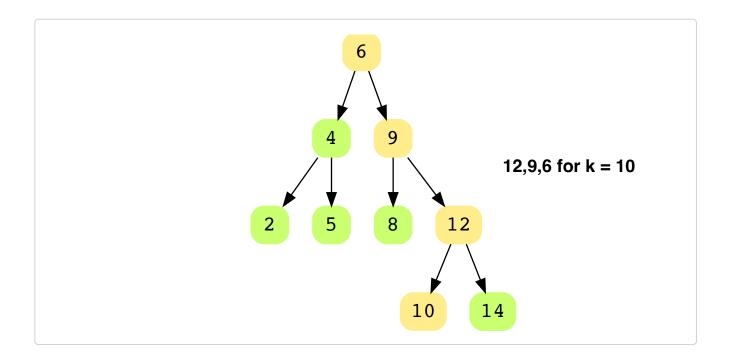


```
bst = {
     6 -> 4,9
     4 -> 2,5
     9 -> 8,12
     12 -> 10,14
}
where parent -> leftChild,rightChild

k = 10
```

Sample Output

```
[12,9,6]
```



Coding Exercise

Take a close look and design a step-by-step algorithm first before jumping onto the implementation. This problem is designed for your practice, so try \bigcirc

to solve it on your own first. If you get stuck, you can always solution provided in the solution section. Good Luck!



Interviewing soon? We've partnered with Hired so that companies apply to you instead of you applying to them. See how ①

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Solution Review: Find kth maximum v...

Solution Review: Find Ancestors of a ...



✓ Completed

Peport an Issue

