Problem 3: Find K-th largest element in BST

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class TreeNode:
    def __init__(self, val=0, left=None, right=None):
        self.val = val
        self.left = left
        self.right = right



def kthLargest(root, k):
    stack = []
    node = root

    while node or stack:
        while node:
            stack.append(node)
            node = node.right
        node = stack.pop()
        k -= 1

        if k == 0:
            return node.val

        node = node.left

root = TreeNode(4)
root.left = TreeNode(2)
root.right = TreeNode(7)
root.left.left = TreeNode(1)
root.left.right = TreeNode(3)
root.right.left = TreeNode(6)
```

k = 3

result = kthLargest(root, k)

print(f"The {k}-th largest element in the BST is: {result}")