Problem 1: Find K-th smallest element in BST

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class Node:
    def __init__(self, value):
        self.value = value
        self.left = None
        self.right = None



def kth_smallest(root, k):
    stack = []
    count = 0
    curr = root

    while True:
        if curr:
            stack.append(curr)
            curr = curr.left
        elif stack:
            curr = stack.pop()
            count += 1
            if count == k:
                return curr.value
            curr = curr.right
        else:
            break

root = Node(5)
root.left = Node(3)
root.right = Node(7)
root.left.left = Node(2)
root.left.right = Node(4)
```

```
root.right.left = Node(6)
root.right.right = Node(8)

k = 3
result = kth_smallest(root, k)
print(f"The {k}-th smallest element is: {result}")
```