

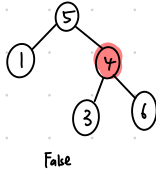
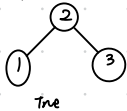
Validate Binary Search Tree

: Given the root of the binary tree, determine if it is a valid binary search tree (BST)

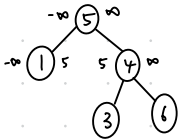
A valid BST is defined as follows:

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

Ex)



Algorithm: Postorder DFS.



1. Check if current node is empty

if not node:

return True

2. Check current node's value

if node.val ≤ low or node.val ≥ high:

return False

Base case

3.

return validate(node.left, low, node.val) and validate(node.right, node.val, high)