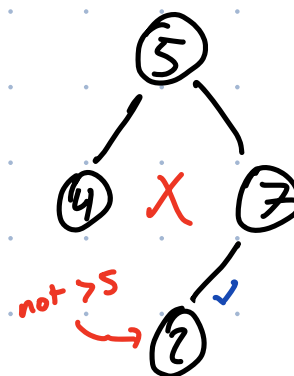
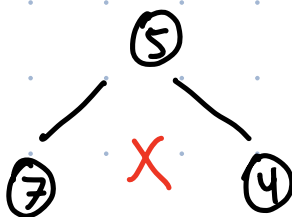
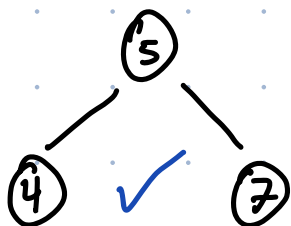


Valid Binary Search Tree

- Given Binary search tree w/ 3 numbers, see if it is a valid binary search tree
- Binary Search Tree - All nodes to the left are smaller than the ones, and the right ones are bigger



- Question: Validate Binary Search Tree

Establish Data Structures

class Node {

value

left

right

}

← Data Structure for nodes

empty node is valid

is Valid (n, low, high) {
if (n) return
n.val > low AND

n.val < high AND

is Valid (n.left, low, n.val) AND

is Valid (n.right, n.val, high) AND O(n)

Time: O(n) - depth first search,
go through all once

Space: Complexity proportional to
recursive stack ~ here linear