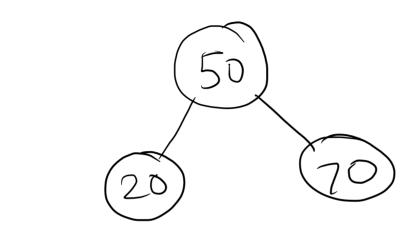
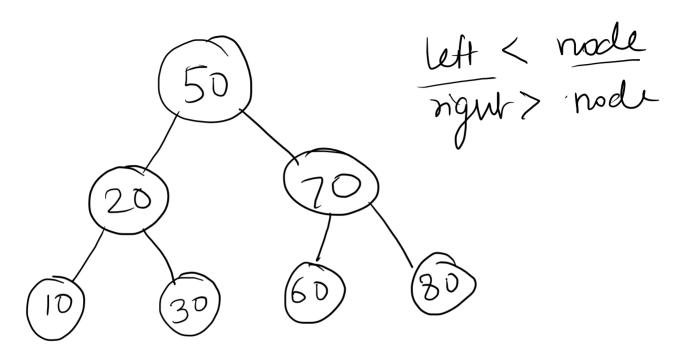
BINARY TREE Atmost 2 children (0,1,2) United modes

BINARY SEARCH TREE

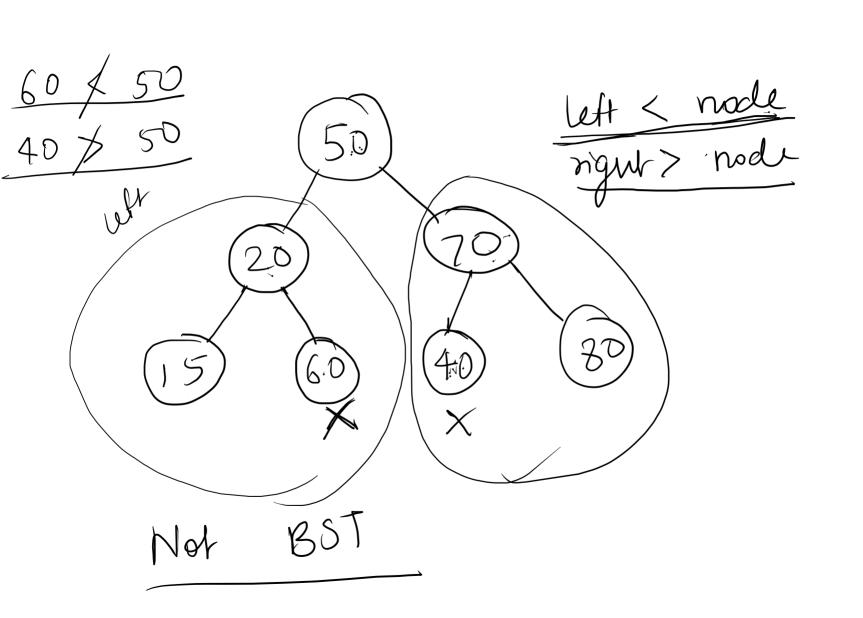
greater Smaller

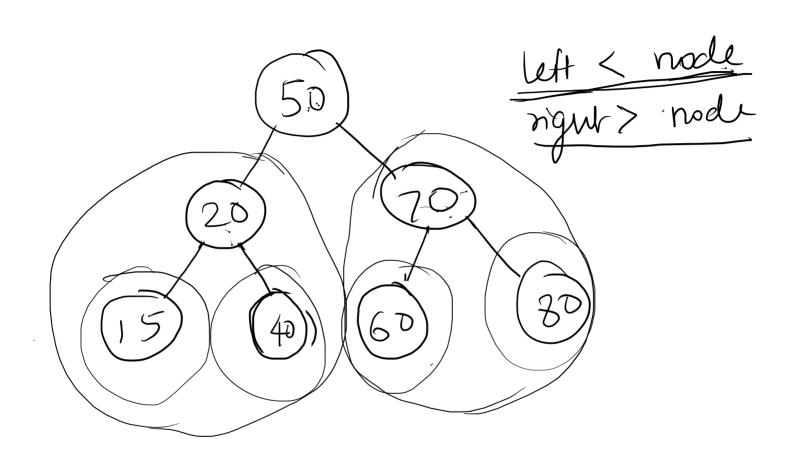


Binony Search Tree

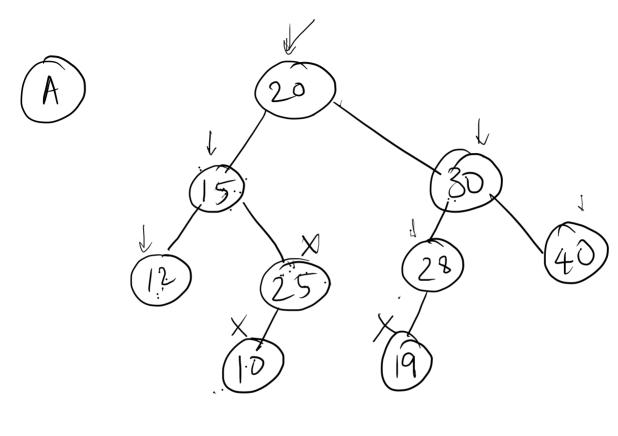


Binary Search Tree

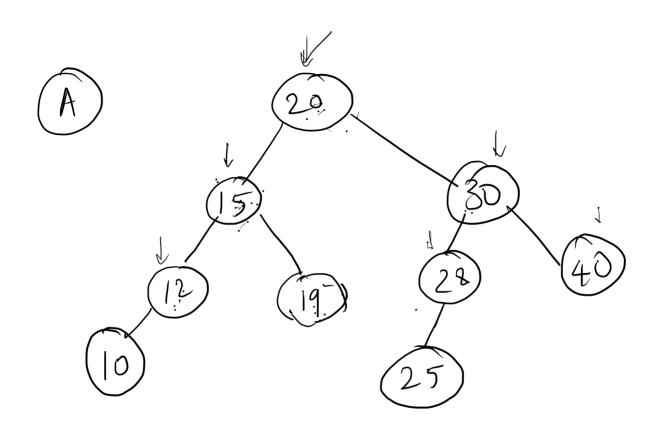




^



NOT BST



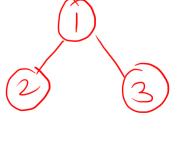
left < nodl right > node Yen, it is BST

A) Every BST is a Binary Tree

TRUE

B.) Every Brany Tree is a BST

FALSE



Why called "Search" bree?

Inoselev	-> Sorted
	Preord

 $der \rightarrow Root, litt, right$ 10, 5, 20

(5) Inorder -> Left, Root, night = 10 0-

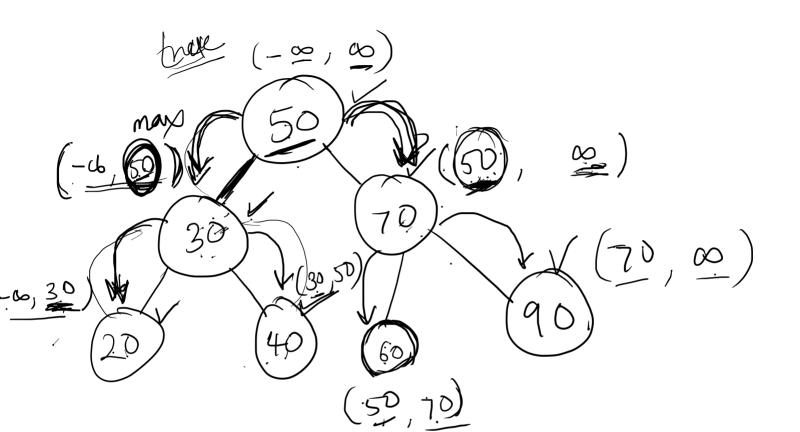
Postorder -> left, night, mot
5, 20, 10

Inorder > left , root, right
2,4,5,6,7,8,9,10,15,18,19,20,22,24 sortee

* Inorder Travisal of a BST gives us the sorted order

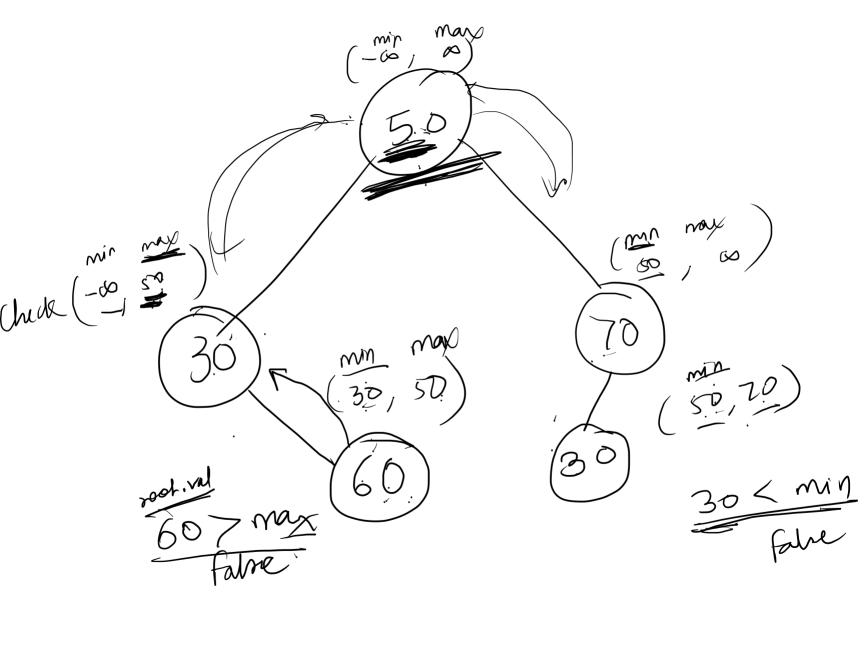
Voulidate if tree is BST?

true false



 $(-\infty, \infty)$ (20,30) (-60

if (700t == null) if (root.val <=min | root.val >=rrax)



$$\frac{T \cdot C}{SC} = \frac{O(n)}{O(n)}$$

M Commerce

Stack

	•	

 $(-\infty, \infty)$ (20,30) (-6

falk