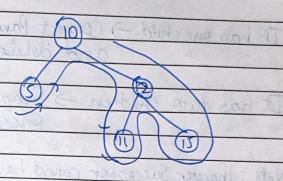
		DATE:_/
المستريد		lecture 5 til hold Binary Search Tree
مريد مريد	Advantas	The Manager of the State of the
مسيمريد. مسيمريد	•	Each node has a key, which determines the node's position in the tree.
بسرمه. بسر		
المربب	•	He generally work of Key, Address
مسيمريد مسيمره	1	let se be a node in BSTgri Din short teurs
	400	while two off at pointing the truth with
مسمرید مسرر		It y is in LEFT subtree of x, y key & x key
		and vice versa.
مسرمريد		
~, ~,;,~		
~~~		
سرماند		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		Total Possible BSTs = 1 (2n)
		n+1 $n$
		In C, BST is a struct with int key (value) and
		node *left and *right (pointers to next nodes)
		Good Write ating 5000

E G	DATE	:_/_/
3	PAGE	1

Search -> O(n) mol/ 10 mm months Insert -> 0 (n) fleight -> N in worst case Inorder Traversal



Output = 5, 10, 11, 12, 15 Plag is at the bottom.

Post Order Transcal

Cutput = 5, 11, 15, 12, 10

Pre - Order Traversal

Output - 10,5, 0, 12, 11, 15

	DATE:_/_/		APTAGE A
	Deletion of a Noder O C should		
Care 1:	It is a leaf node -> Delete and Parent points to		If h
Case 2:	It has one child -) Connect Parent to grandchild and delete		(200)7
~ .	It has two children -> Swap with Inorder Successor, Delete then		Note: Solution
	Note: Inorder Successor cannot have LEFT child.  It is paradoxical.	ulov	f(h)
	Rog is at the bottom Se		Height
	Post Order Transveral		
e per	Categor + 5 H 75 12 10 x M		
	Output - 10 South 12 11 153 High later		
	Good Write asign to the same of the same o		
	Good Write		Good

DATE:/	E DATE:_/_/
Search	Balanced Binary S. Tree (Doubts)
thoras de la constantina della	21 221 617 14 14 14 14 14 14
nt points to	IF height of LEFT subtree - RIGHT subtree >1
to pairos to	It magne or LET I subtree - KIUTHI SUBTREE > I
	(beet - of - rebid) whis your
grandchid	Imbalamed BST
0	to Alexander
	Note: Height is from leaf node
Inorder	(2) 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Delete then	Solution: Rotate the BST to the RIGHT or LEFT
6.2	Here our is the POINTER to the first lass
Child who	f(h) = 1+f(h-1)+f(h-2), h= height of tree
	f(h) = 1+t(h-1)+t(h-2), h= height of tree
	A Another Liay of Whiling Anough in C
R	
	Height = O (log n)
	Ednie wie wie waar en de stat en
	There were the test to be American the San
9 1 1 1 1 1 1 1 1 1 1	Good Write

X Good Write Another Way of Orlining through in 957 Here ST) but THE \* int our ( Att or arrid will get the solliers address our is the Arroys 7 1 Code 5° POINTER 22 6,23 Under to the first Tre-Hood of the value lecation. Bas