Tree traversals Evaluate each node exactly once in the tree BST is ordered. Traversal that produces ordered output in an inorder traversal. Usits
Jeff parent right parent
parent
[10]

29
1216

Att 1911216

Tight Pattern is left-parent-right Tattern is lett-parent-rych
Inorder Print (node)

If node y lettchild! = nullotInorder Print (node) / ettchild

cont conde such es such es

if node y right (ld! = nullotInorder Print (node) vight (ld!) Pre-order and post-order Pre-order evaluates parent before children Post-order evaluates children before parent Deleting wides from a 857
Pule: Still needs to be a valid
BST after delete Delete 15 - two children No children case No chiarenNelte Is trample,
In the is left child of
its provent
node provents left child is delete nole delete note
One child case
Delete G

note is a right

child child indexparent orightchild = Node or hightchild delete node Two child case Ex: 10 2.77 right birack Delete 5 Peplace with minimum value in right branch of node to delete 6 is min in this example Less common is to use max value in left branch Find ain by going left until you reach bottom of branch. branch.

the mode = rightchild

while the poletichild : nulph

the potential better the the the the poletichild

Min the poletichild Min = top

Min = right ch. U

if min = node > right cl. U

node > proved > leftch W = min

Min > parent > node > parent

Min > leftch W = node > kH

Min > leftch W = node > kH Min 3/eftchild = povent = Min isn't right child Ex: 70 De lete 15
15 note Perplace
10 He 16 Min sporests lettchild 18
Min sprightchild 17
Min sprightchild sponest 17
Min sporest nodesporest 20
Min sporest lettchild min Min = lef+ch, U=node = lef+ch, le MM > rightchild = node > sightchild node Trightchild = parent = uin node = leftchild = parent = min 14 18 - zo Final tree