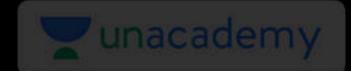






#### Trees - Part VII

Course on Data Structure



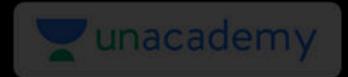
# CS & IT Engineering

Data Structure

Tree



By- Pankaj Sir



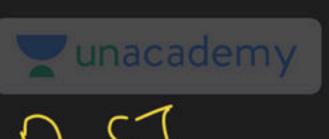


## Topics

to be covered

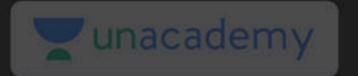


1 Tree-VI

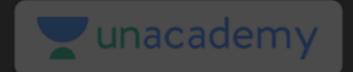


Joshon Lession leat hode (n)



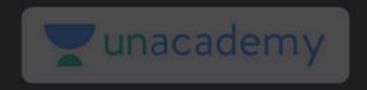


weekst case >> 0(n) (6thplexity



### Balanced BST

AVL Search Tree

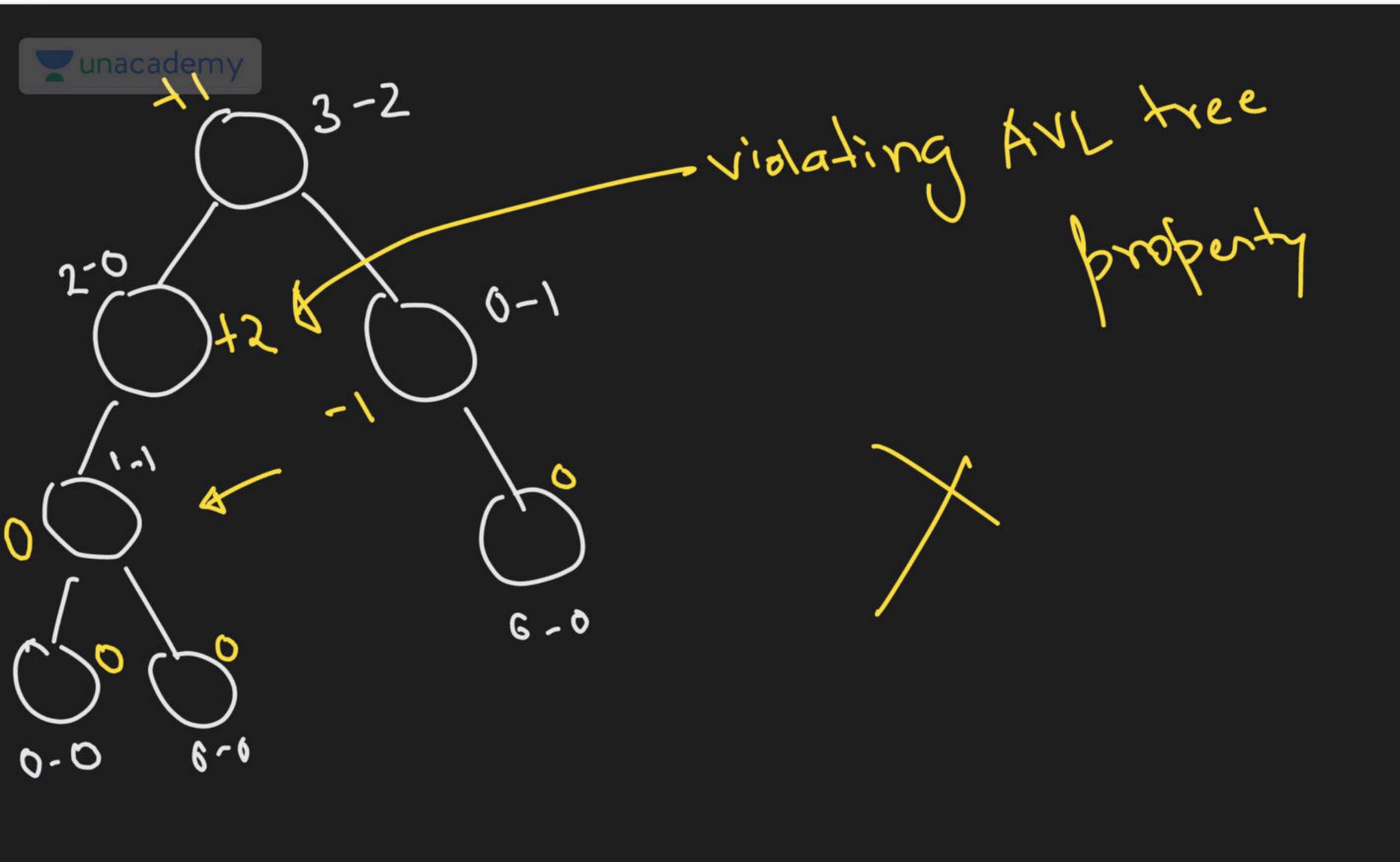


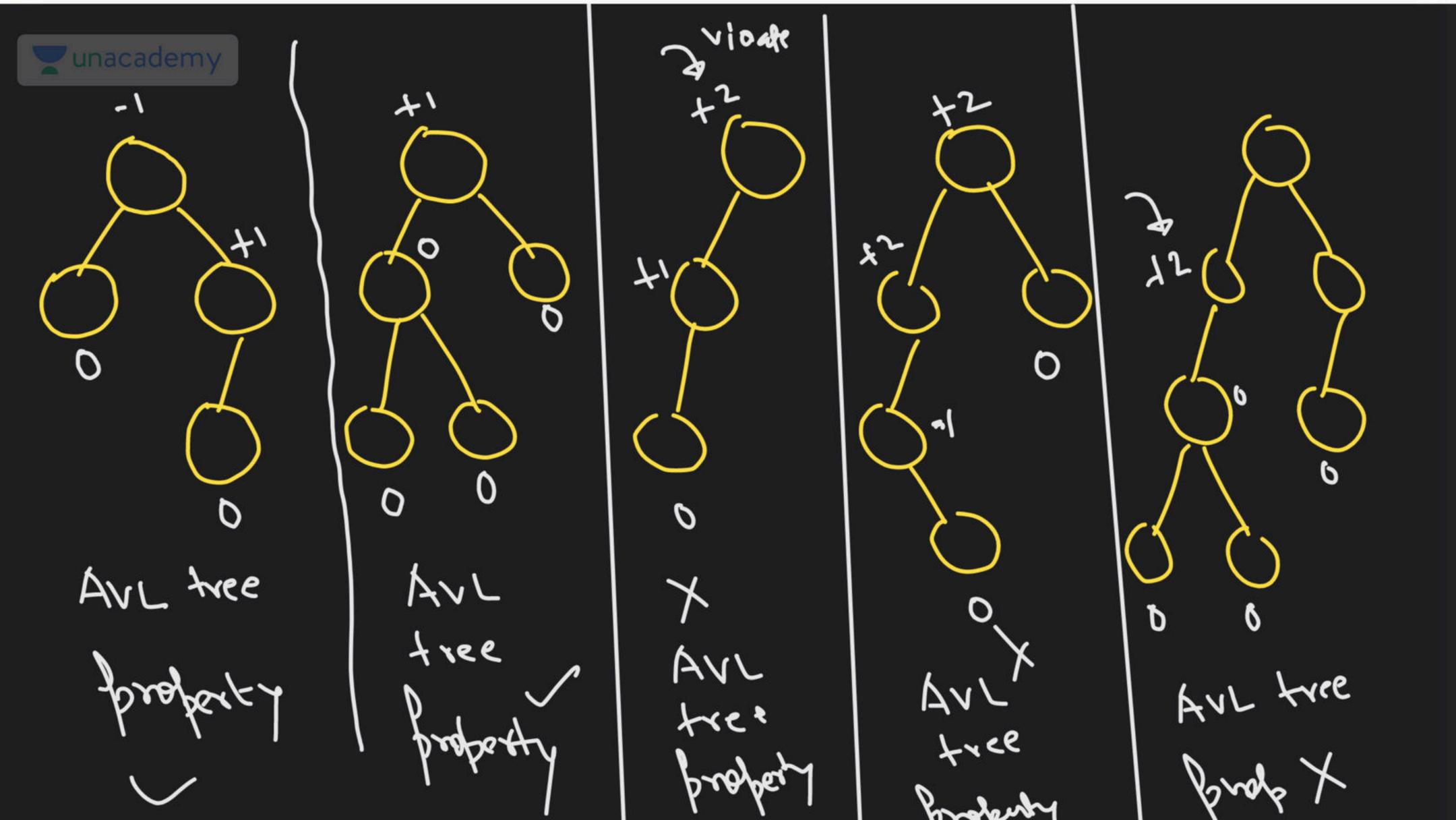
## AVL Tree

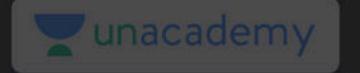
(Every node), satisfies 2 property 2) BST property: All the Reys in the left subtree of a node are smaller the node value and All the freys in the right subtree of a hode are greater than had Valve.

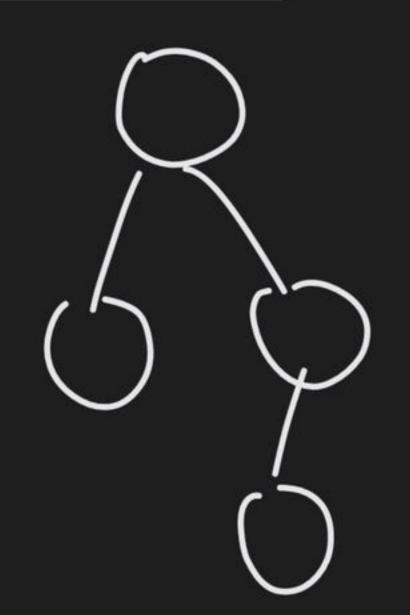
b) AVI tree property: Jet each mode is

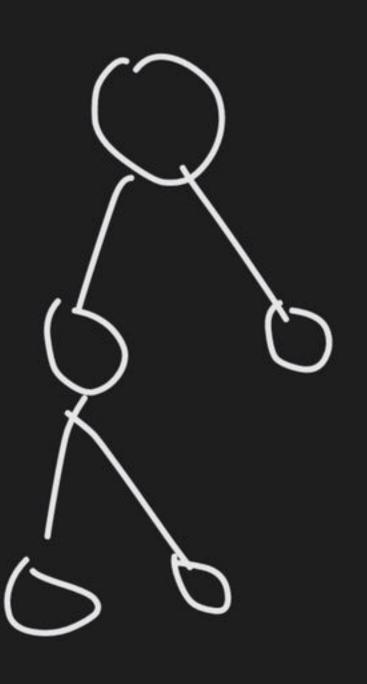
RT An An Beys pe75 are smaller are Anan x Joeden Ance of

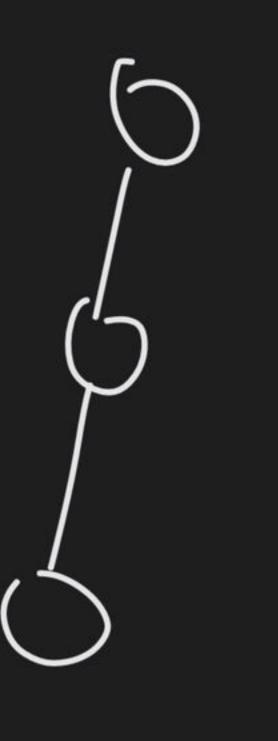


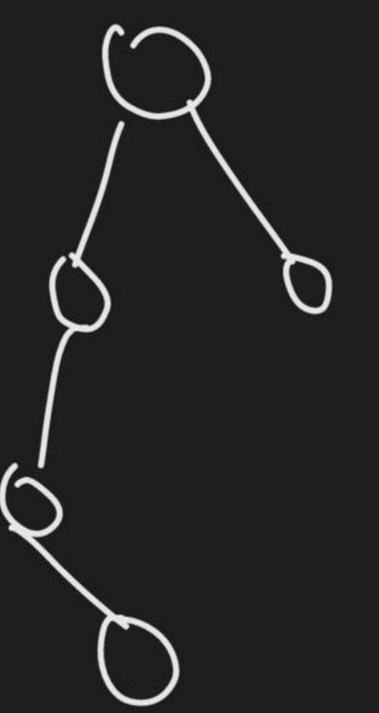


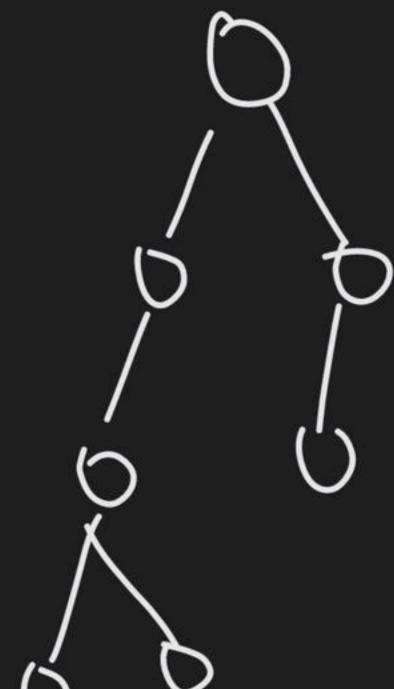










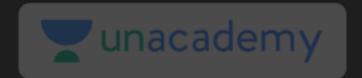


Construct an AVI tree by inscrting keys 16,20,36 in this byder. Insert > same as inher 7~ B55 (ii) Insert 20

Insertion of a key may cause the balancing factor of a node becomes other than ti,-ior

O (unbalanced)

To balance it = ) notations are ferformed









#### THANK YOU!

Here's to a cracking journey ahead!