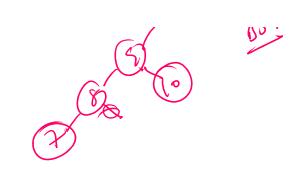
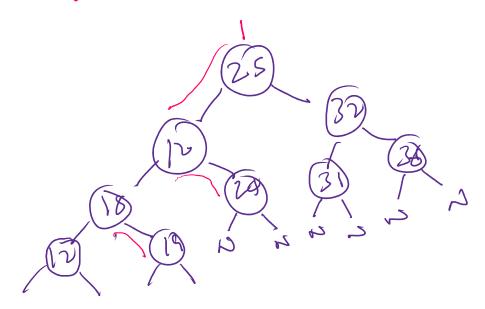
4.1 Binary Search Trees Sunday, August 24, 2025 10:43 AM Modele 4
Special case of Tree
a Bot is a binary tree where every node follow this property
The left Subtree well have smoller values than the node
values than the node. The night subtree has greater valued
the night some.
20 ST
(15) (28) (28) (28)
30 -> Not a BST



3) Some properties of BST

I The 8 mallest node in a 25t is the

. The largest broadle in a DST is ever



Pre: 25 23 18 17 18 24 9 2 31 32 34 July 12 18 19 28 24 25 31 32 34

à Inorder of a BST is always Sected.

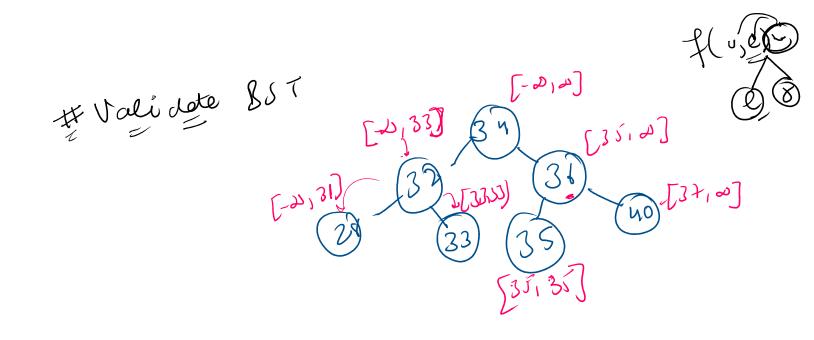
void inorder (Node xot) {

(Yoot = = new) &et;

(norder (xoot-legh))

(norder (xot, date))

(norder (xoot, xxxx))



LCA
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Node lca(Node root, Prts ns, int nz) {

If (not== nuel) ret root)

If (not. deta == n) | root. deta == nz) ret root;

Node lytz lea(root-l, nk, nz)

Node right = lea(root-r, n1, nz);

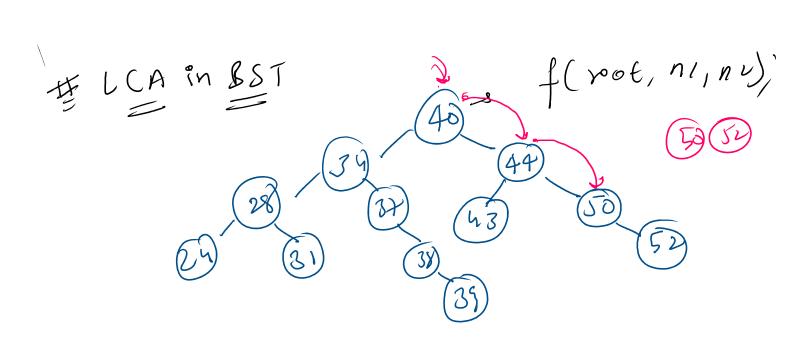
Node right = lea(root-r, n1, nz);

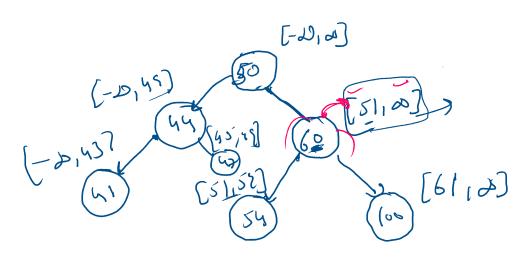
rode right = lead root-11 mil sex root;

(f(legt!= null fl right) z mil) sex root;

(f(right = z null) sex lef)

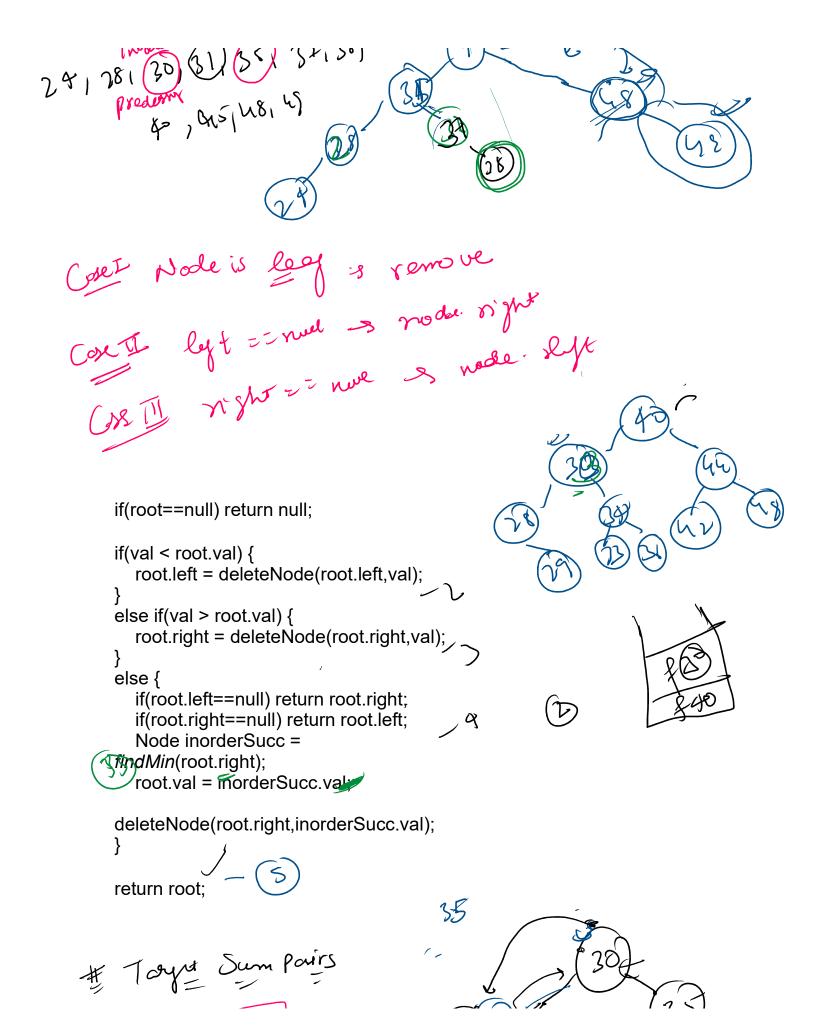
ret organ;





24, 28, 30 ST SS 32, 38,





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