Stack space
$$\Rightarrow$$
 O(H)

O(N)

O(1) extra space

Solution RST

(LST), (6), RST

2, 3, 5, 6, 10

RC

ENUL

> + node, we ty to find the inorder predecessor & update it is night to the node. Code Curr = root; > while (cur != null) & if (carr. left == nall) d print carr; 3 cur = cur. right; -> else d > pred = fil Predecessor (curs); → = if (pred. night == null) d pred right = curr; curr = curr. lest; > elx d Pred. right = null; print (cum data);

Curr = curr. right;

A, B, C, D, E, F, G, H, I, J, K

S.C. = O(1)T.C. = O(2N) = O(N)

Morris's Imorder Francisal

Ancortes
$$\uparrow \uparrow \Rightarrow 1, 3, 5, \Rightarrow 1$$

Ancortes $\uparrow \uparrow \Rightarrow 1, 3, 6$
 $8 \Rightarrow 1, 3, 6, 8$
 $\Rightarrow 1, 3, 6, 8$
 $\Rightarrow 1, 6, £ 8$
 $\Rightarrow \text{Lower common ancertors}$

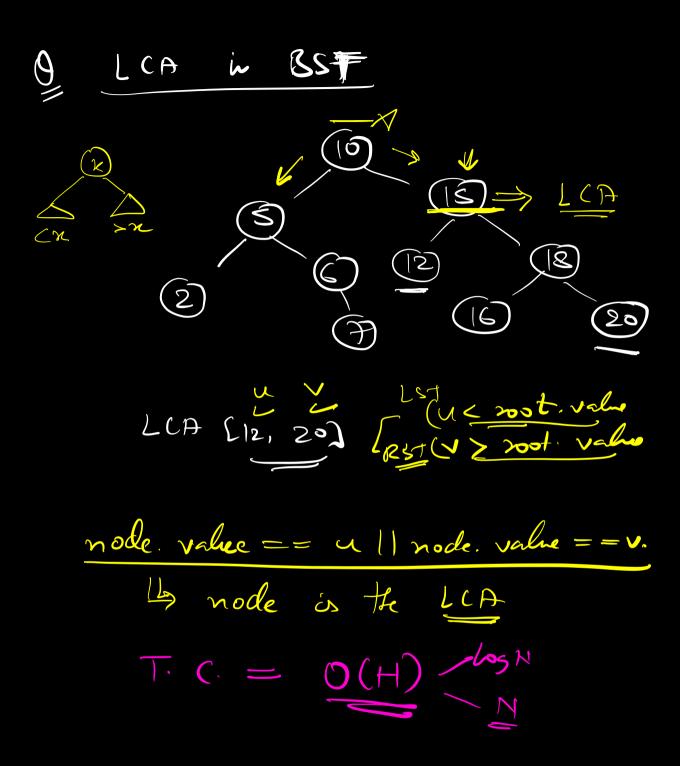
(layert level) = (3)

LC(7(4,6) = 1

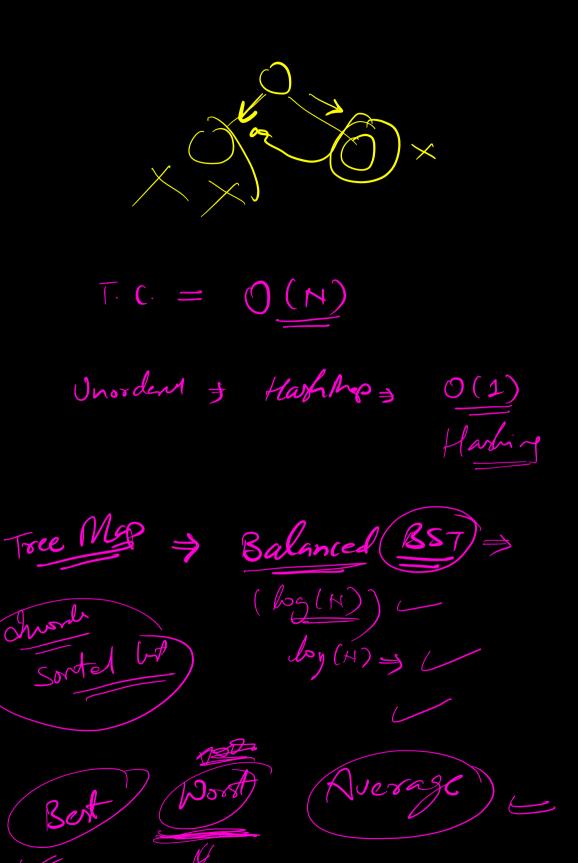
Given a Sinony tree & 2 nodes u & V. find the LCA 2 Find ancestors of both \$ Compand. We Stack to find out ancesters $\top c = O(N)$ S. C. =

2 Reduce space Complexity?? $U : V \Rightarrow 1$ $V \Rightarrow 1$

He sum of every subtree. = Smallest subtree for which the sum becomes 2 is the LCA T. C = O(N) $s \cdot c = o(1)$ Adobe > Using Sits M.w. 50000 Toy to sepont in terms of 38 u Sim & to 20] ind mismetch



Given a Sinary tree Invest the Sinary tree. Mo entra space allowed. => Recursively swap the left & the node invest (soot) d temp = 1 root left = invert (not. right);
root. left = invert (not. right);
root. right = invert (not. left); return not;



_ [

