Today's Content:

Prender - S V

Provider - S V

Inorder traversal: & Prevatore y

return;

a inorder (root. left)

print (root. val)

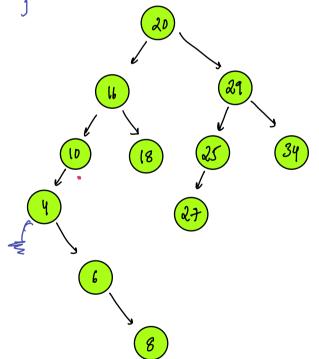
inorder (root. right)

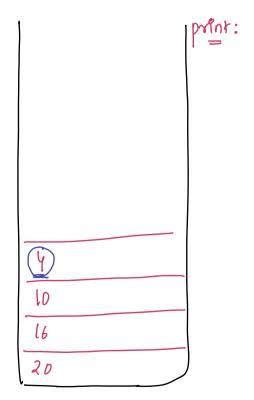
Pdea: 1) Tell you get a num m lest.

Steel, kup enseming

a) If Yout = = NULL, get the
hop element of Stark 4

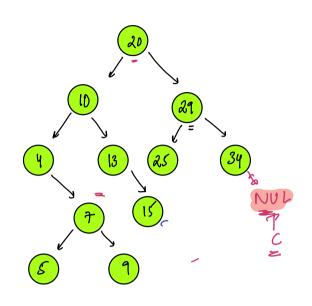
prent 4 goto right





prent: 4 6 8 16 18 20 . . _ _ _

preul: 4 5 7 9 10 13 15 20 25 29 34



inorder (Noch root) {

Stark & Node > St;

34 34 34 X X X X X

```
Noce car = root;

Whele (car! = NULL) {

If (car! = NULL) {

St. push (car)

aur = aur.left

clar // car = NULL

Noce t = St. top();

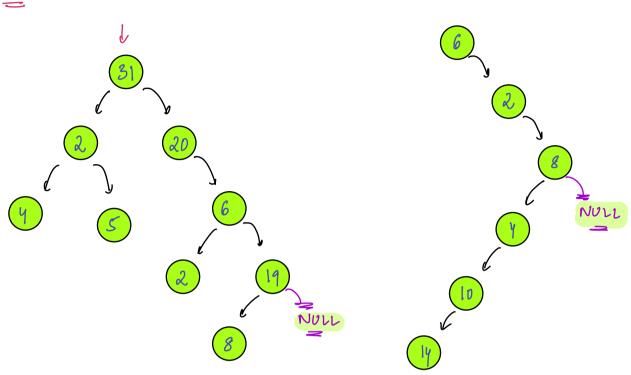
St. pop()

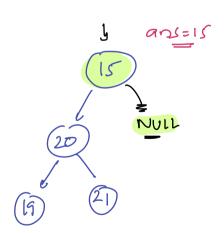
prent(t.data)

quer = t. regut
```

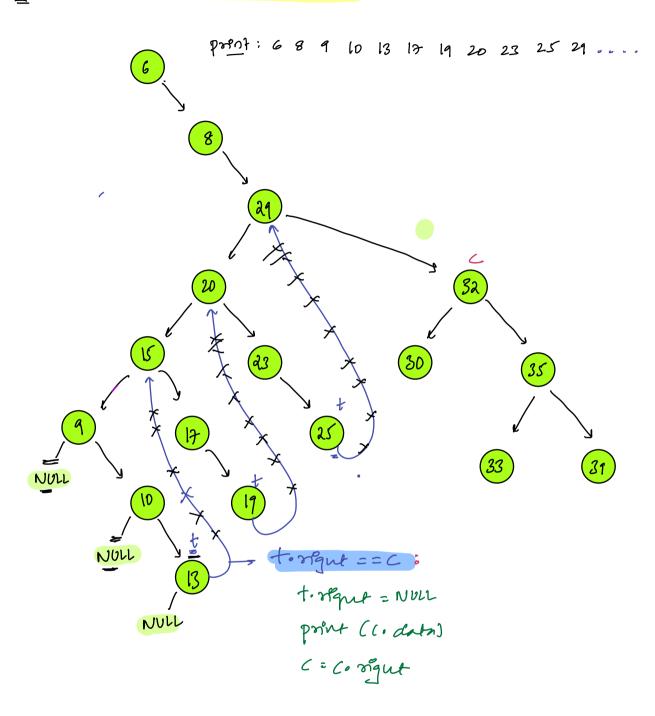
20): With Involve Francisal on a Tree, law mode we pront?

ans=8

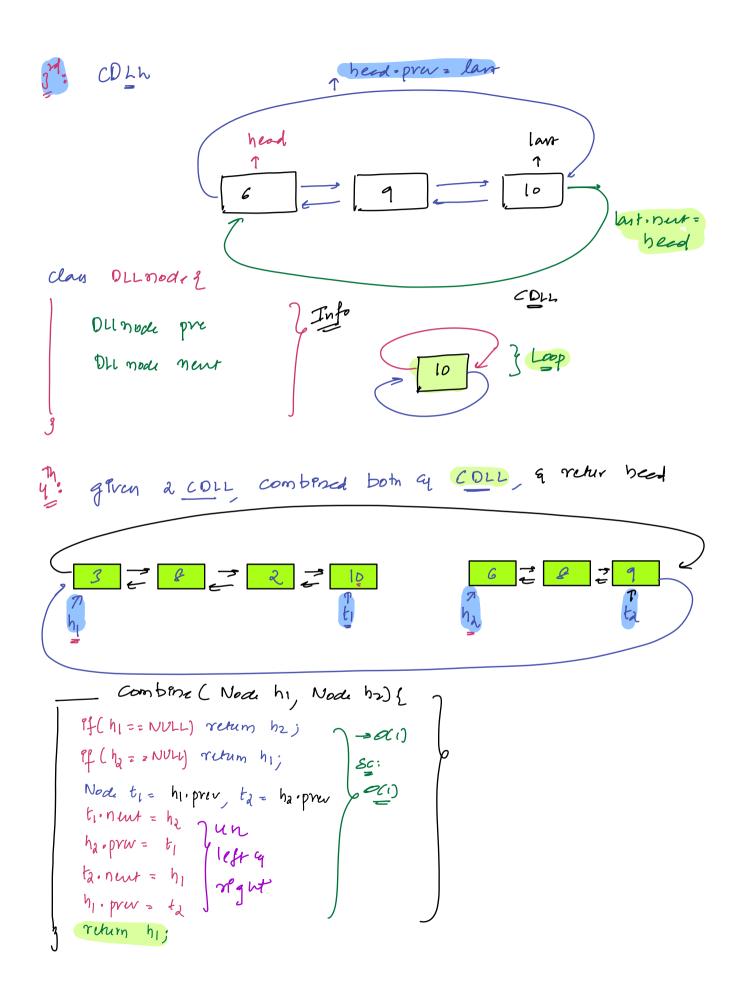


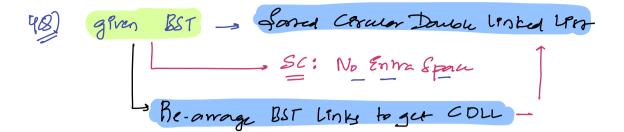


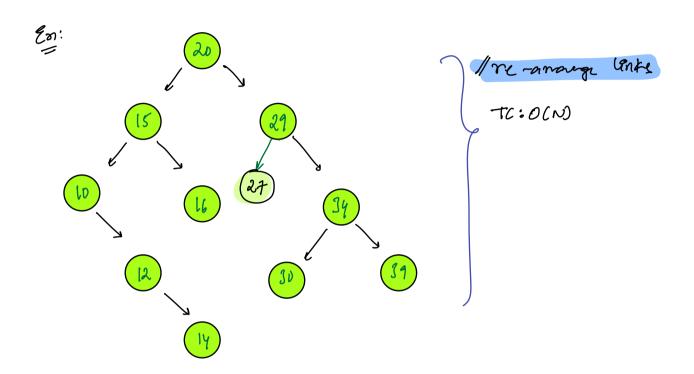
30) Morris Inorder traverscal = { no entra spage (HARO)



Ksudobode: TC: O(N) Porrdy (Node root) q 80:001 Node cur = root; where Curl=NULL If if (cur.left = = NULI) { cur = cur, Rgn+ Noa temp = curileft While (temp. ngut 1 = NULL &q temp. ngw ! = cum) & temp = temp, right Pf (temp. right == NULL) { = { visibing our mode i time} temp. right: cur // update link curr = cur, left / update cum ched //= & visting our node and thing y tup sight == temp, ment = NULL // remove 19nk







-10 = 12 = 14 = 15 = 16 = 20 = 27 = 29 = 30 = 34 = 39

```
Ass: given a DST -> SCOLL & return head

Node Conver (Node root)

If (200+ = 2 NULL) & return NULL)

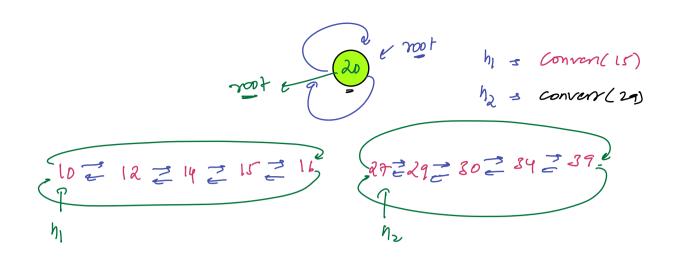
Node h_1 = Convert (root . left) // LST -> COLL

Node h_4 = Convert (root . regus) // RST -> COLL

root -> left = root, roo -> regus //

return Combine (combine (h_1, root), h_2)

If will return head rook of entire try
```



BST -> SOLL

he an: COLL at lat mak loop or

-3 & last tree & Sahray

ele: Ened any.

