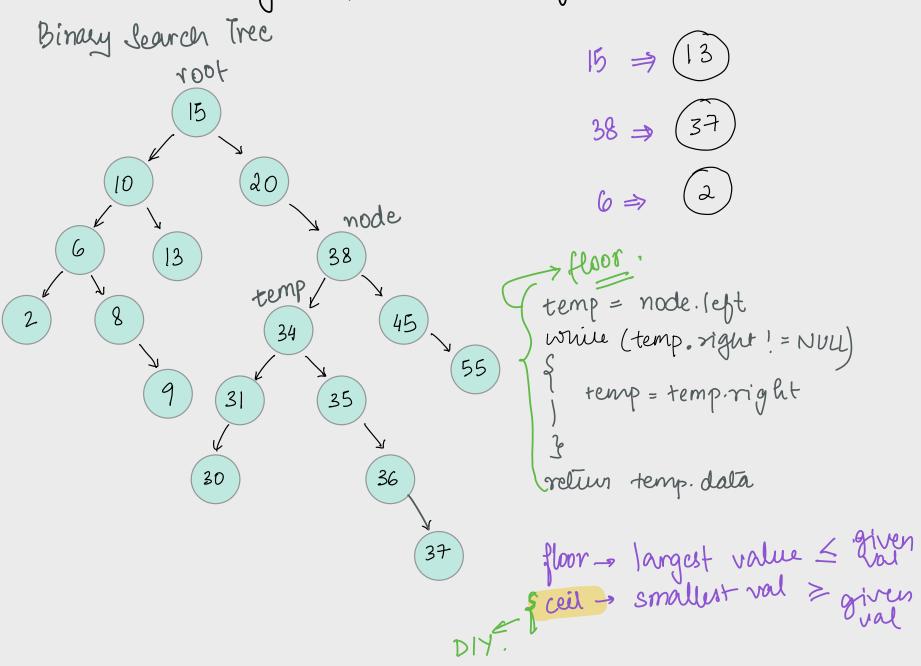


Note: If we pop from Sa it should give the onswer.

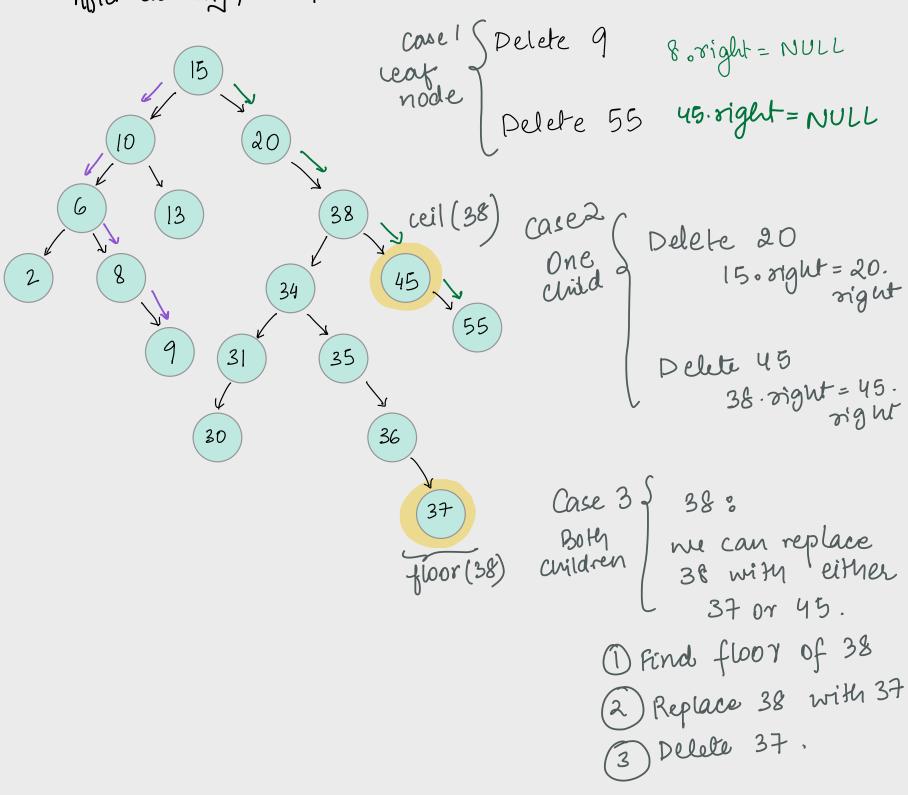
```
void postorder (Node root) &
    stack < Node> 81, 82;
    S1. push (root)
     While (Slosize()>0) {
                                             TC: O(N)
         Node t = S1. top ()
                                             SC: O(N)
          S1. pop()
         S2. push(t)
          if (t, left) }
             s1. push(t-1eft)
          if (t. night) {
              SI. push (t. right)
                                                  DIY/TODO
                                                 Do it using
single stack.
     J

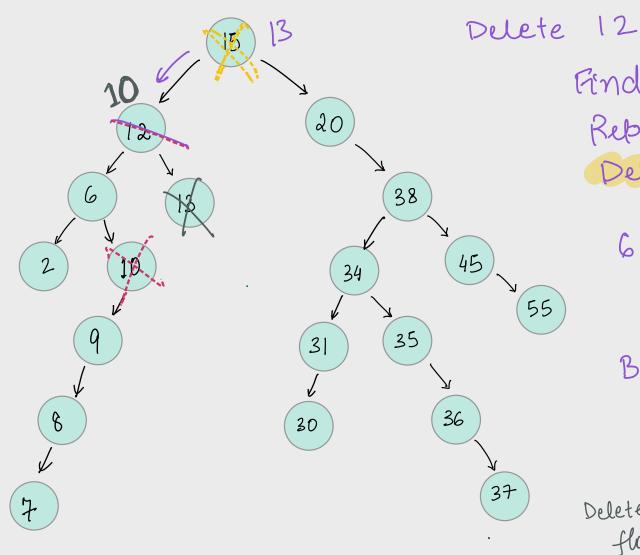
// print stack 2 \Rightarrow 7000
```

## Q. Given node, get rightmost node of inorder in 151.



Deletion in BST | Replacing the data is allowed if needed & After deleting, return root Node.





## Node Delete (Node root, int K) of

```
if (root = = NULL) return NULL
if (root.dala == K) of
  //leaf node
  if (root-left == NULL & voot. n'ght == NULL) {
       return NULL
  // If single clied
   if (root. left = = NULL | root. right = = NULL)
       if (root.left == NULL) {

return root. right
        if (root. right == NULL) return root. left
    usore children
    int n = floor (root)
     root. data = n
     root.left = Delete (root.left, n)
     return root
else if (root. data > K) {
    root. left = Delete (root. left, K)
         root. right = Delete (root. eight, K)
 return most
```

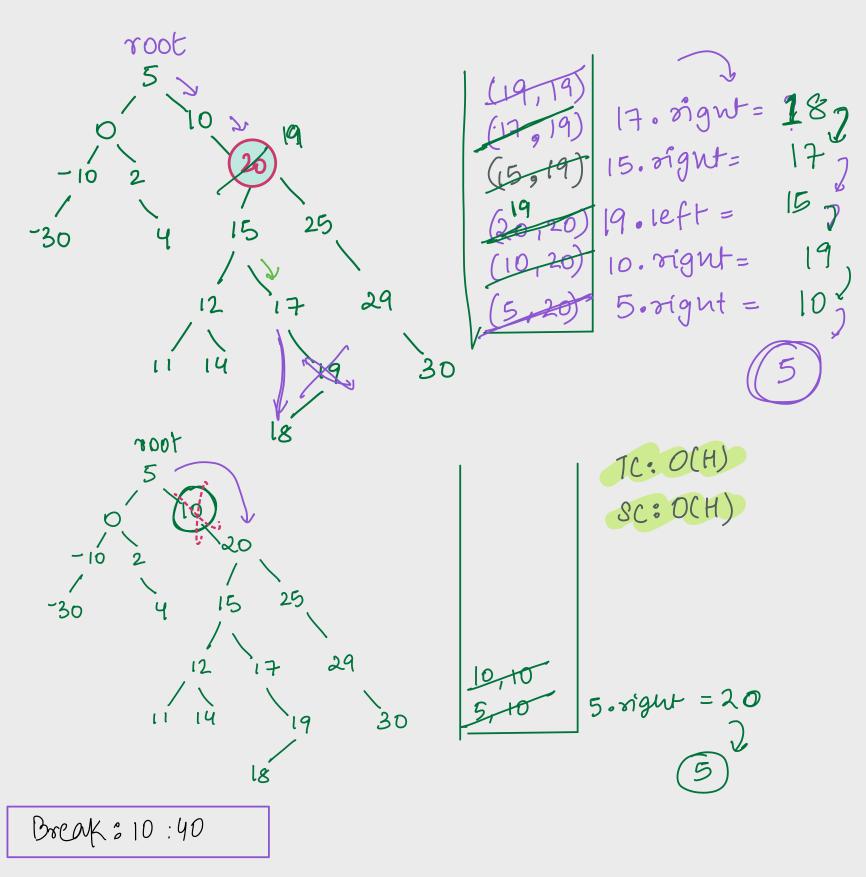
Find floor (12) -> 10 Replace 12 with 10

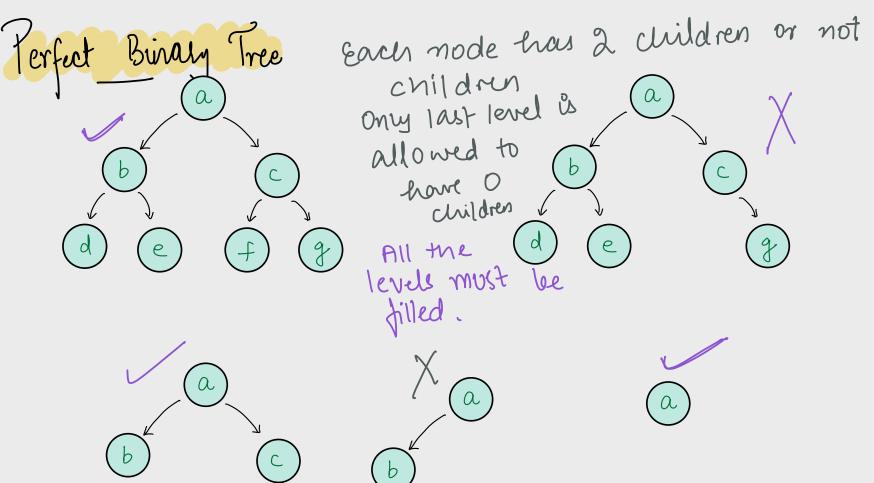
> 6. right = 10. left 10 cannot have any wild on orght Because men floor of 12 will not me sightmost node

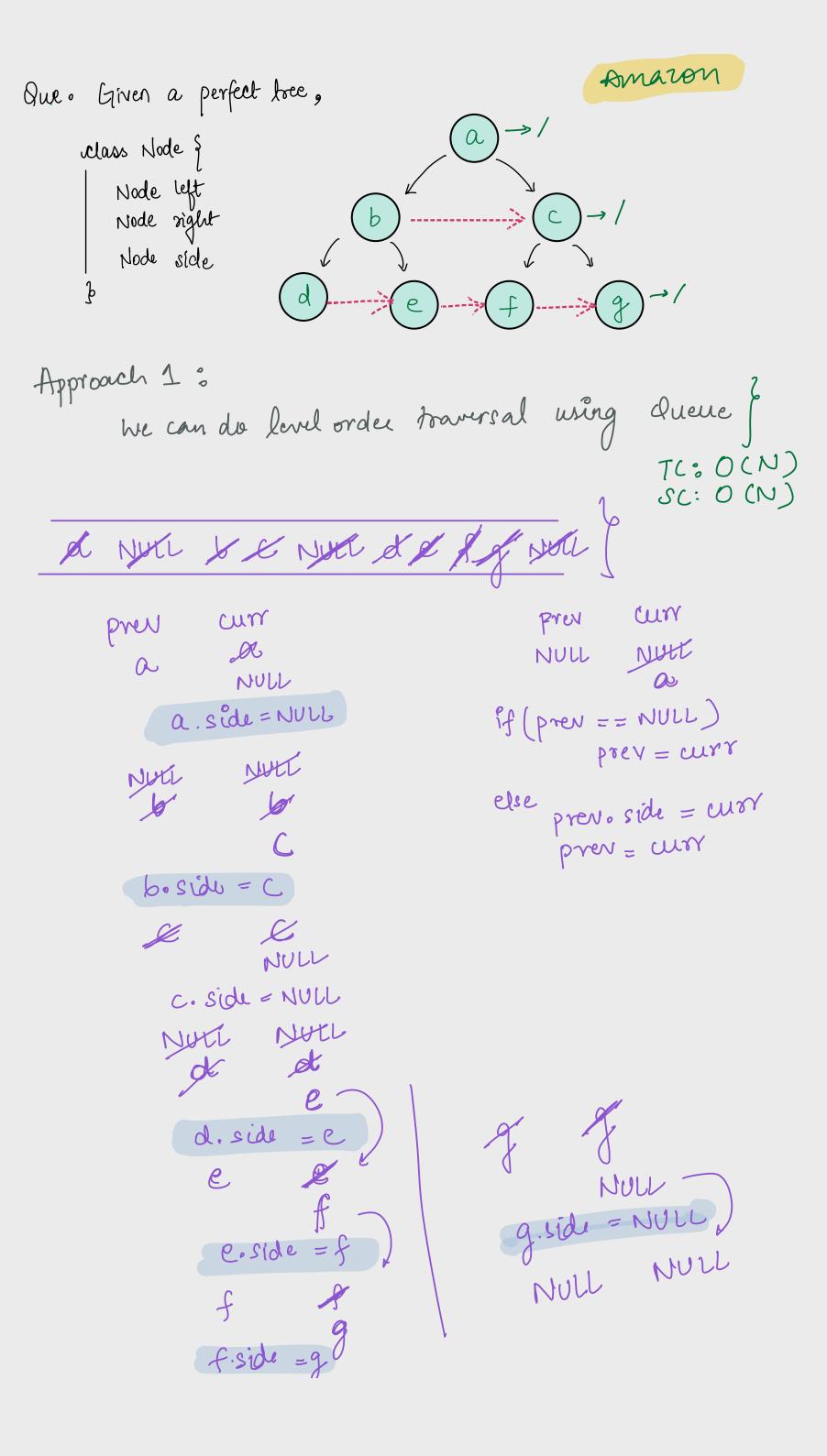
Delete 15: floor (15) -> 13 Replace 15 with 13 Deleta 13

> Delete (5, 20) 5. right = 10 10 Delete (10, 20) Delete (20,20) 30

19







root temp.left.side = temp. right Use only constant temp. right. side = temp. side. left extra space 15) -> NULL 13)-> NIULL void connect-Sides (Node root) of curr = root write (cum·left 10 = NULL) { temp = cum vorile (temp | = NULL) temp. left. side = temp. right if (temp. side) { temp. right: side = temp. side. left Temp = temp. side TC: 0(N) curr = curr. left SC:O(1)

Q. Find 2 swapped nodes of BST. Left to Right " Data 1 if (Aci] > A[i+1])

⇒ A[i] is out of order Right to left & Data L

if (A[i] < A[i-1])

=> A[i) out of order 358 10 11 24 15 16 18 20 22 13 35 horden: 26 13 9 11 7 15 16 18 21 (0) 689101513 Find inorder toaversal # Try with Morris