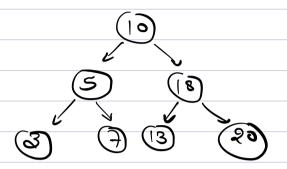
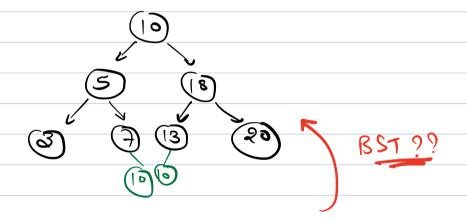
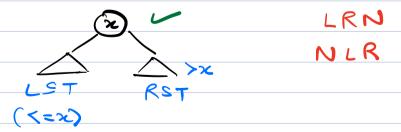
Check if a given tou is BST

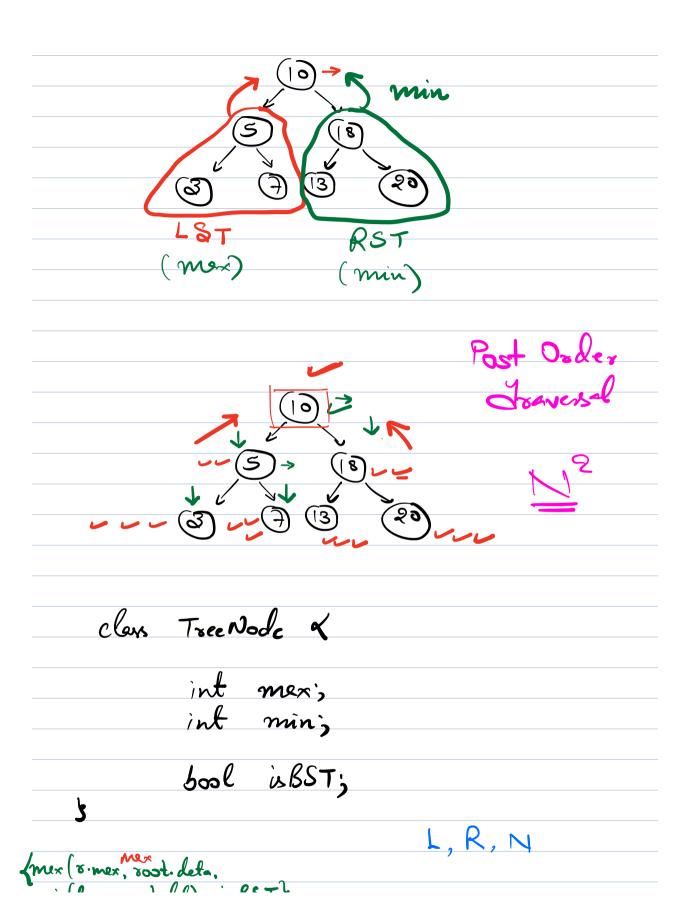


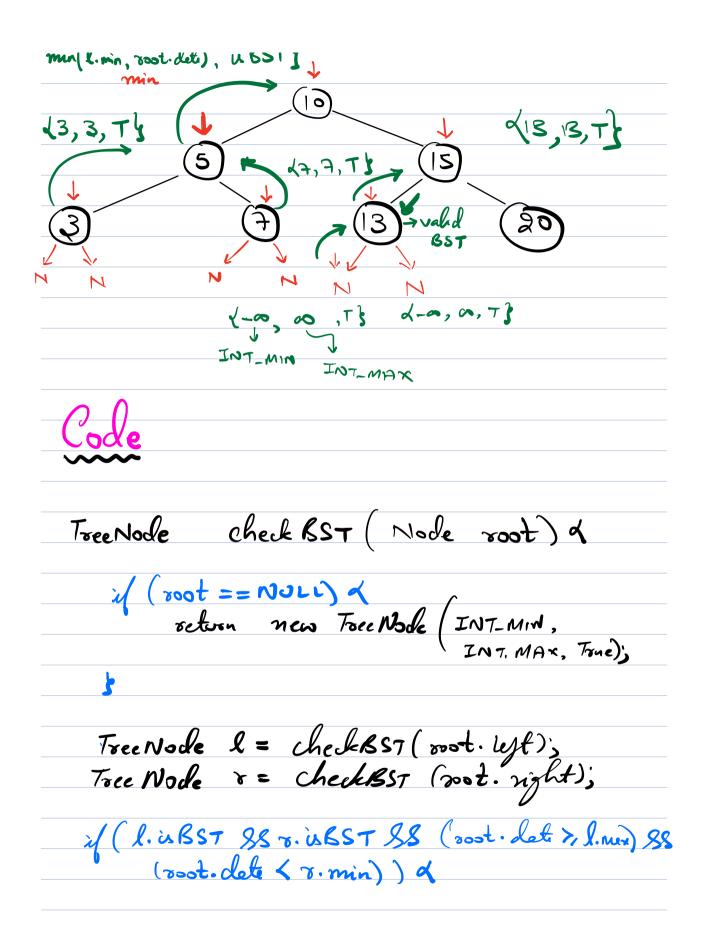
an Order: 3, 5, 7, 10, 13, 18, 20

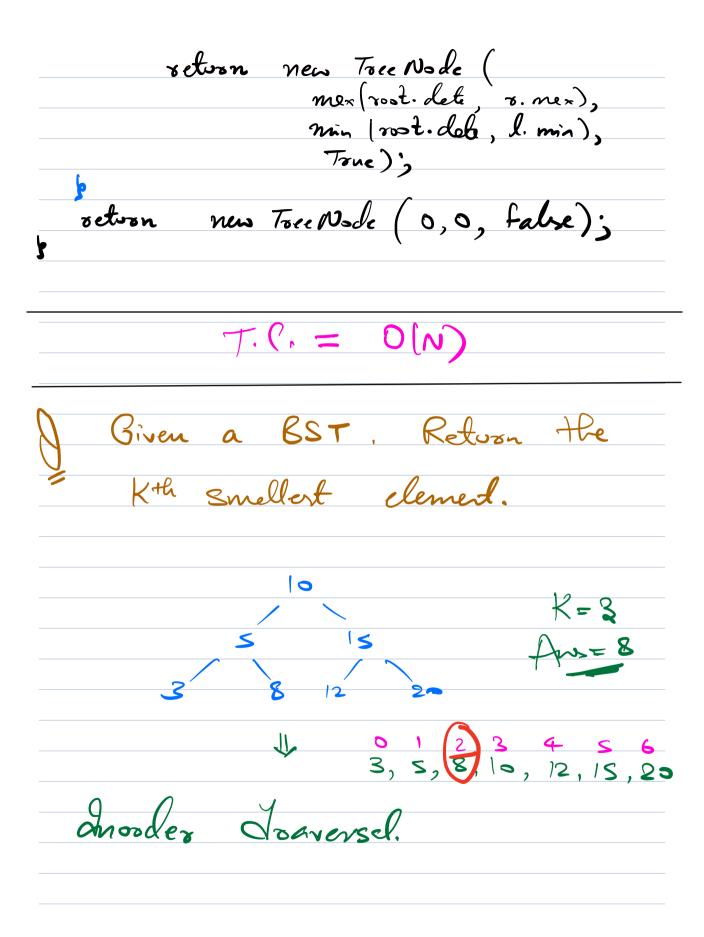


3, s, 7, 10, 10, 10, 12, 18, 20 (Sorted)









ans = INT_MIN; Count = 0;

void inorder (root) x

of (sust == NULL) }

inorder (voot.left),

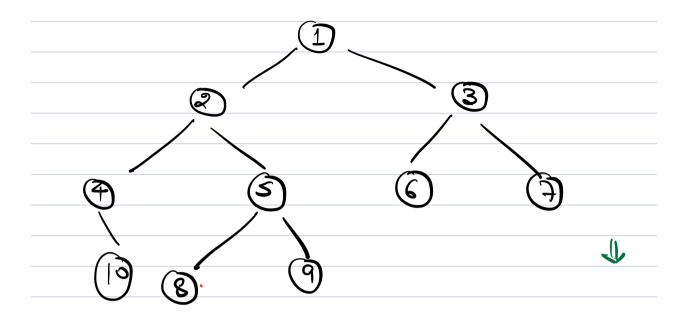
Count ++'s

if (cost == K) d ans = root. deti,

return;

inorder (root. right);

3



Code

void inorder (root) d

Node curs = root;

while (curs) = NUZL) }

if (curs. left = = NOLE) }

print (curr. dela); curr = curr. right;

```
belse &
     Node temp = curs. left;
     while (temp. right |= NUZZ &s temp. right
                   t == NOLL) d

temp. night = Curr

Curr = Curr. left;
          temp. right = NUZL;
print (curs. dete);
           curs = curs. right's
```

Seasch in Binary Tree Pre: N, L, R In: L, N, R Post: L, R, N 1 10 bool seach (root, K) & if (root == NULL) & return false; \$ if (seesch (root. left, k) | Seesch (
root. right, k)) d

۶ Given a Binery From soot a given mode. (0, 1, 5, 2 Deque Lint> 9;

return felse,

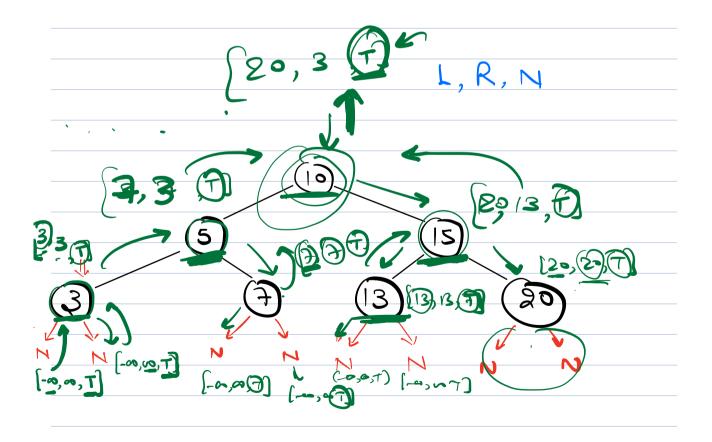
bool creete Path (root, q, taya) & if (rost == NOLD) 2 retien false; & q. add_end. (rost. date); if (sost. dete == target) & return True; bool l = Creete Path (root.left, q, target); if (l== Ime)g retorn Arne, Sool & = creete Path (root. zight,
9, feget); if (r== Jrue)d
retorn Irue; 9. pop_end. ();

$$T.C. = O(N)$$

 $S.C. = O(H) = O(N)$

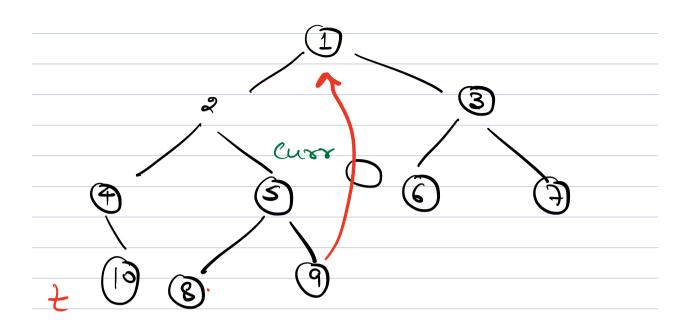
Extra sersion

Monday > drew followp





```
TreeNode check BST (Node root) 9
   return new Toee Mode (INT_MIN, INT. MAX, Frue);
 Tree Node l = checkBST (not. left);
Tree Node r = checkBST (not. right);
if (liuBST BS viuBST BS (root det >, linex) SS
(root dete < vimin)) d
         return new Tree Node (
mex (rost. dete, r. nex),
                       min (rost. dol , l. min),
                        True);
octoon new Tocc Node (0,0, false);
```



void inorder (root) d

Node curs = root;

while (curs) = NUZI) }

if (curs. left = = NOLL) 2

print (curr. deta); curr = curr. right;

bolse of

Node temp = curs. left;

while (temp. right |= NUZZ SS temp. right |= curs) &

temp = temp. right; 5 b