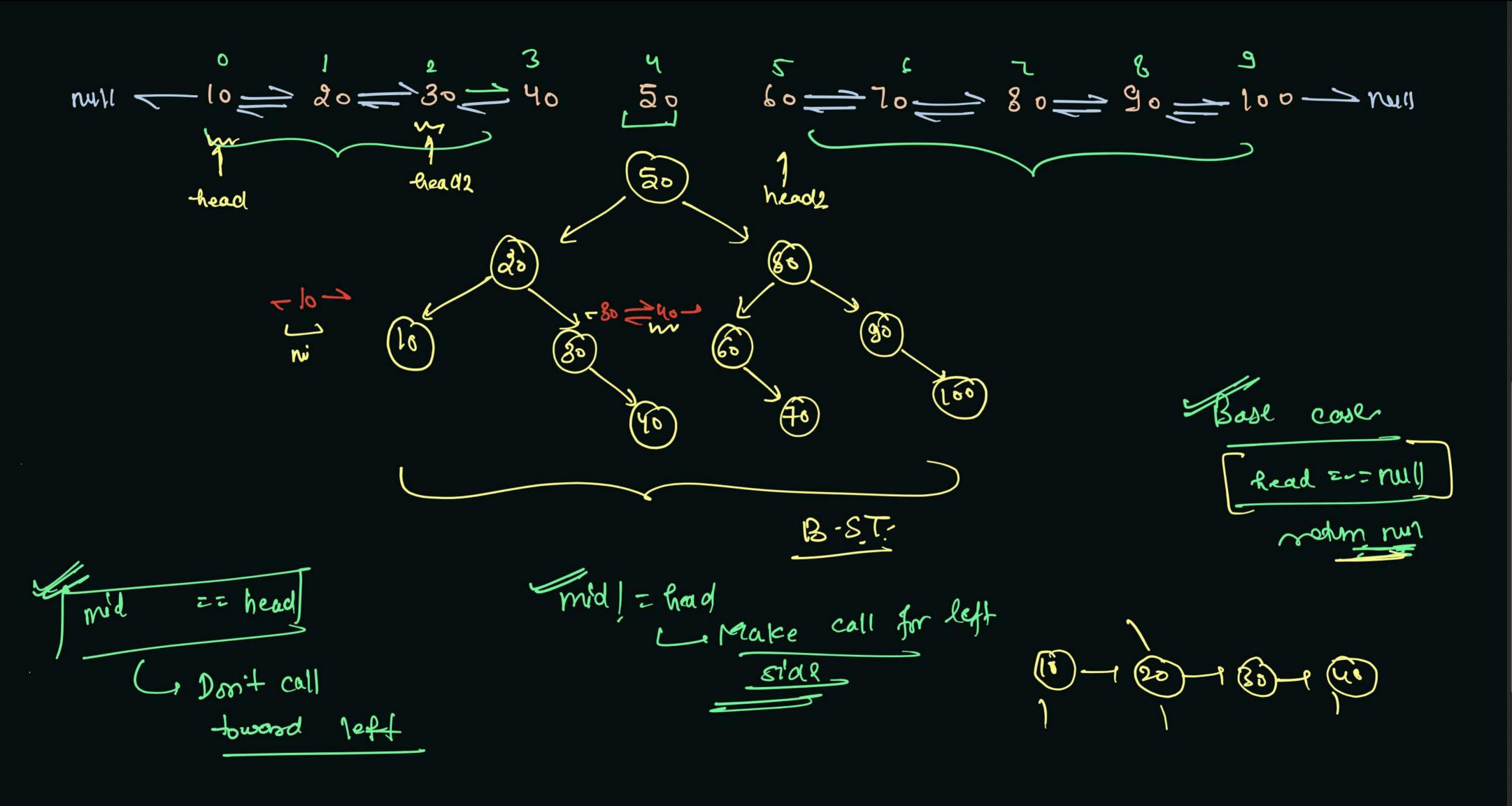
Convert Sorted DLL to BST Sunday, 29 August 2021 10:17 AM

mil - 10= 20= 30= 40 10 de 30 vo 50 60 70 80 80 100 $mid: \frac{40+W}{2} = \frac{9}{2} = 4$ £= 3 mid-leff[= mull mid. left. right = null roote lest child head2 = mid. night! Even length — armider Hald-1 mid. niget = null root= mld; creation (head) left child Root = root. left creation (head2); = right child Root =

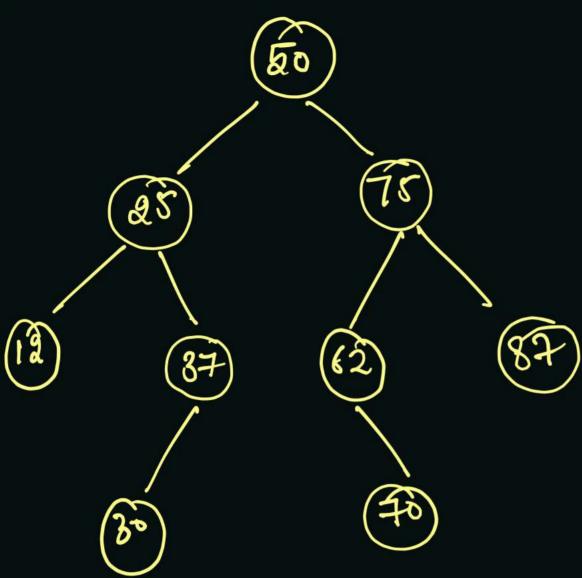
regum root;

root, nget



Sunday, 29 August 2021

10:17 AM



Root to leaf poth having sum is

equalto tosept value

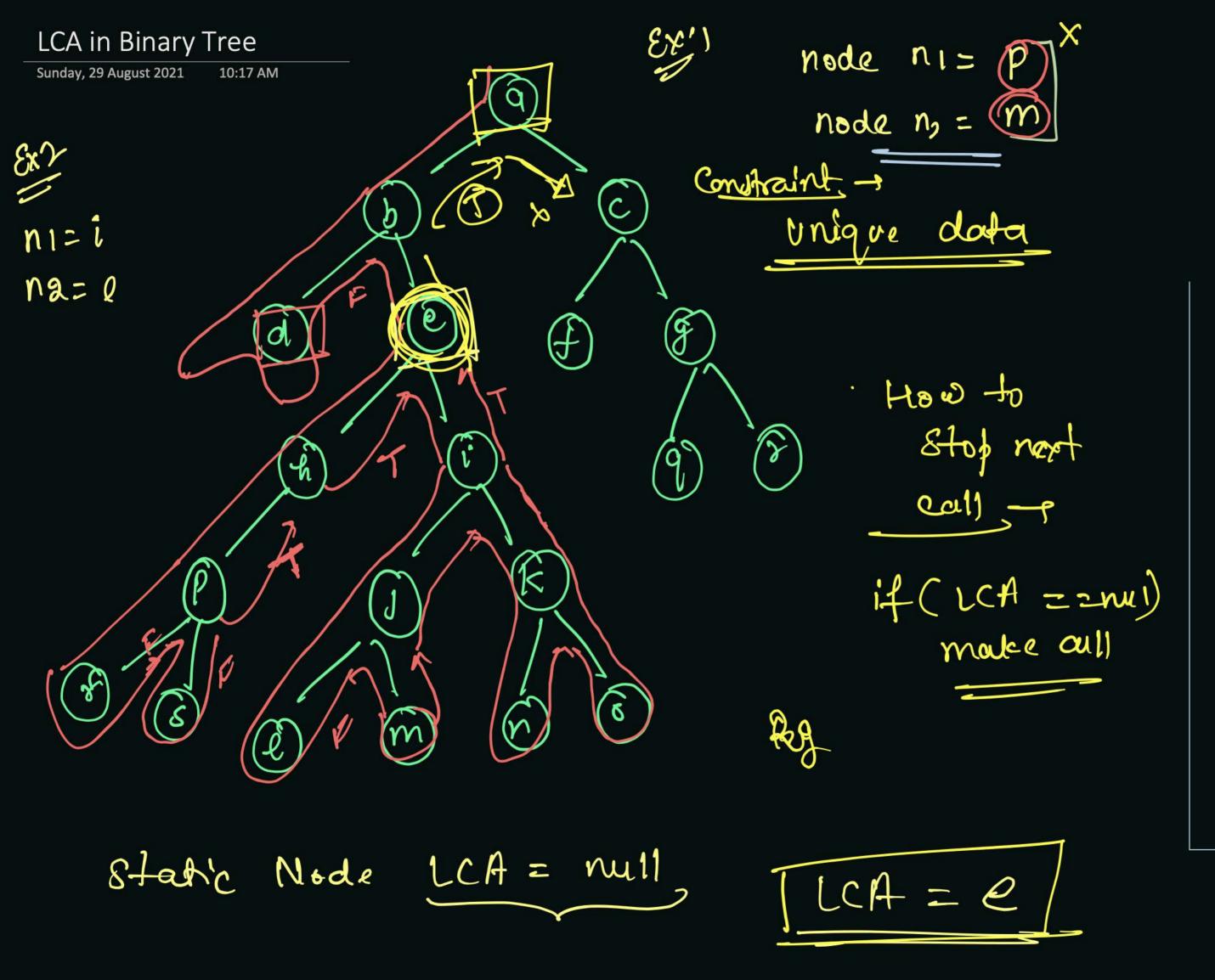
if present — Retirm True

otherwise - Retirm False-

Sum so far

far — if 85f = = tonget] rohm Trub

if Truo Ercour - e No forther call



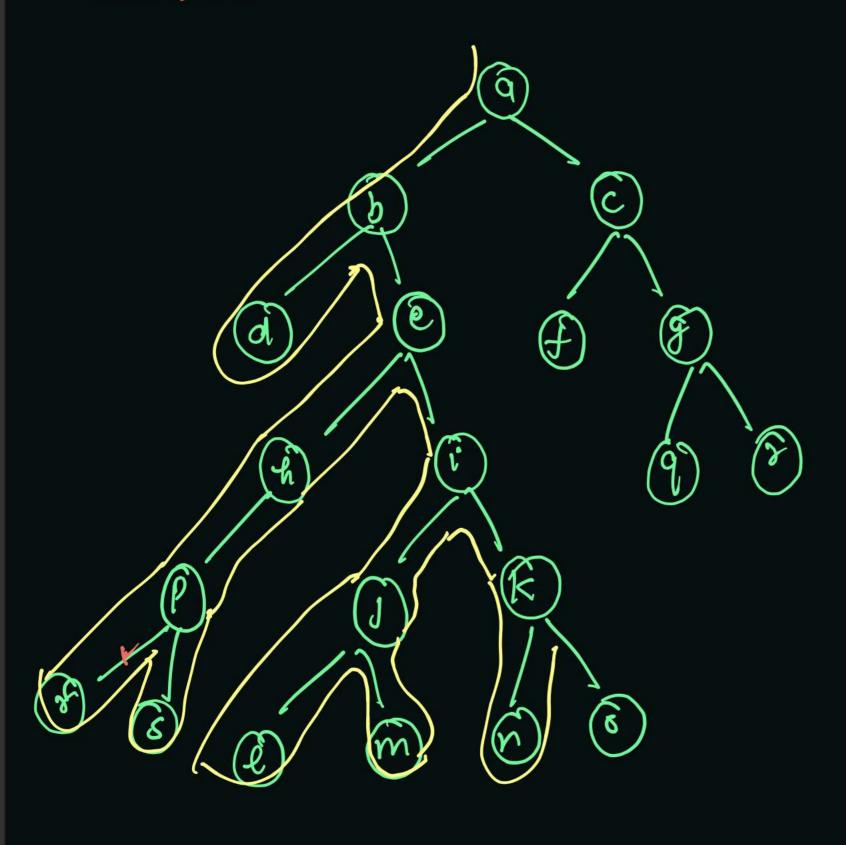
Self check Importants left check night check,

b.27
a,1

Self el Ryd 11 Left ee Right

FT

Selfcheck left Riggy check credata 1 = i



```
Static Mode
                             LCA
         static TreeNode lca ← null;
         private static boolean solveLCA(TreeNode node, int data1, int data
             if node == null return false;
          bookean self node.val == data1 || node.val == data2;
             boolean left = false, right = false;
            left = tolveLCA(node.left, data1, data2);
            if(lca = null)
                 right = solvelCA(node.right, data1, data2);
              f((self && left) ) (self && right) | (left && right))
             return self || left || right;
         public static TreeNode lowestCommonAncestor(TreeNode node, int r
             lca = null;
             solveLCA(node, p, q);
             return lca;
                                      Self & leff = T
  Self = True
left = True-
Right = false.
                                    Self R Right = F
Saff RR Right = f
```

Not for doctat clarat 2 Not fax LCA=MY e Ar FFT

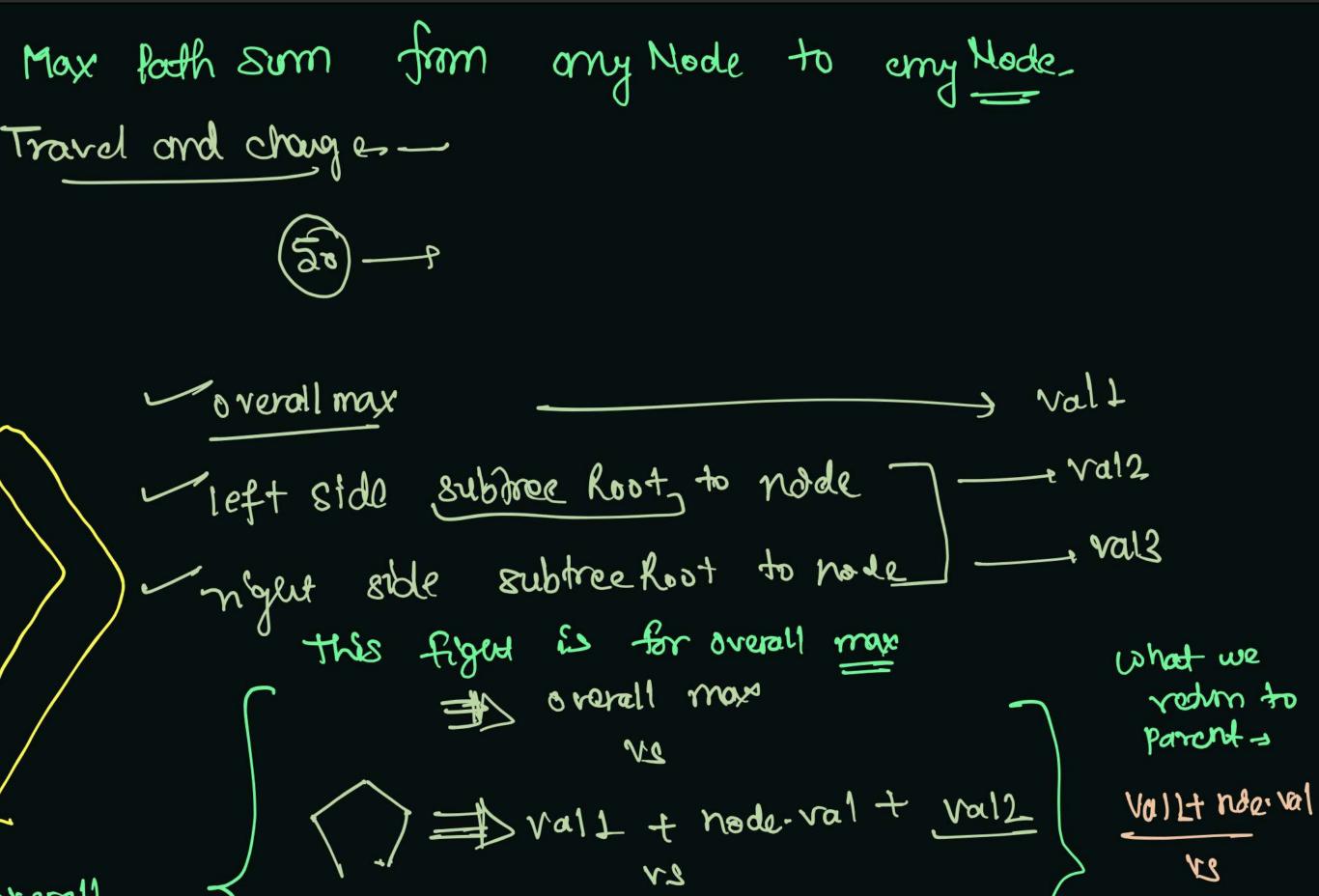
Maximum path Sum In Binary Tree Sunday, 29 August 2021 10:17 AM

450

(41)

5

(el



overall

max

vs

vall + node.val + vall

vs

vall + node.val

vs

vs

node.val + vall

vs.

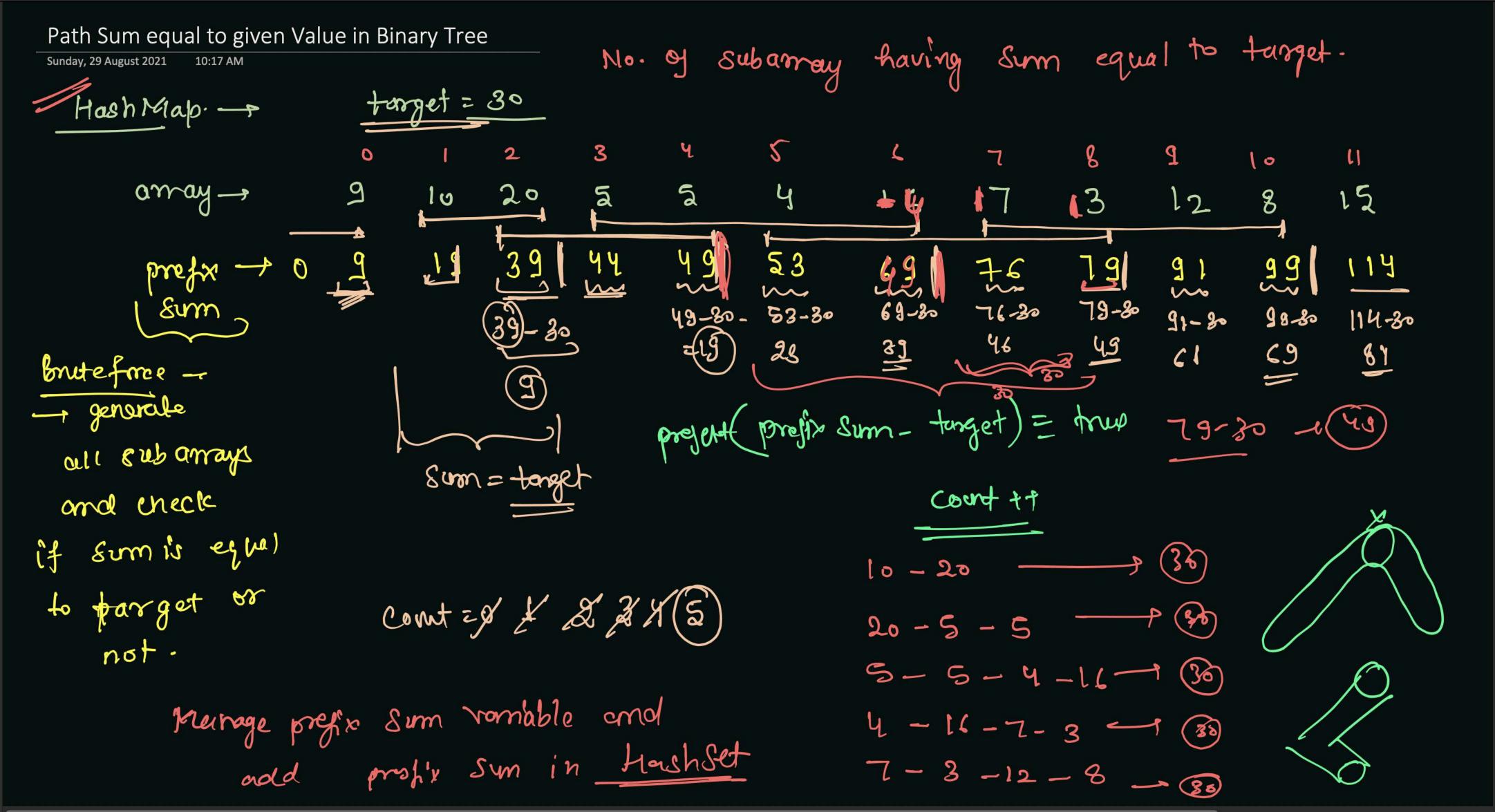
node.val

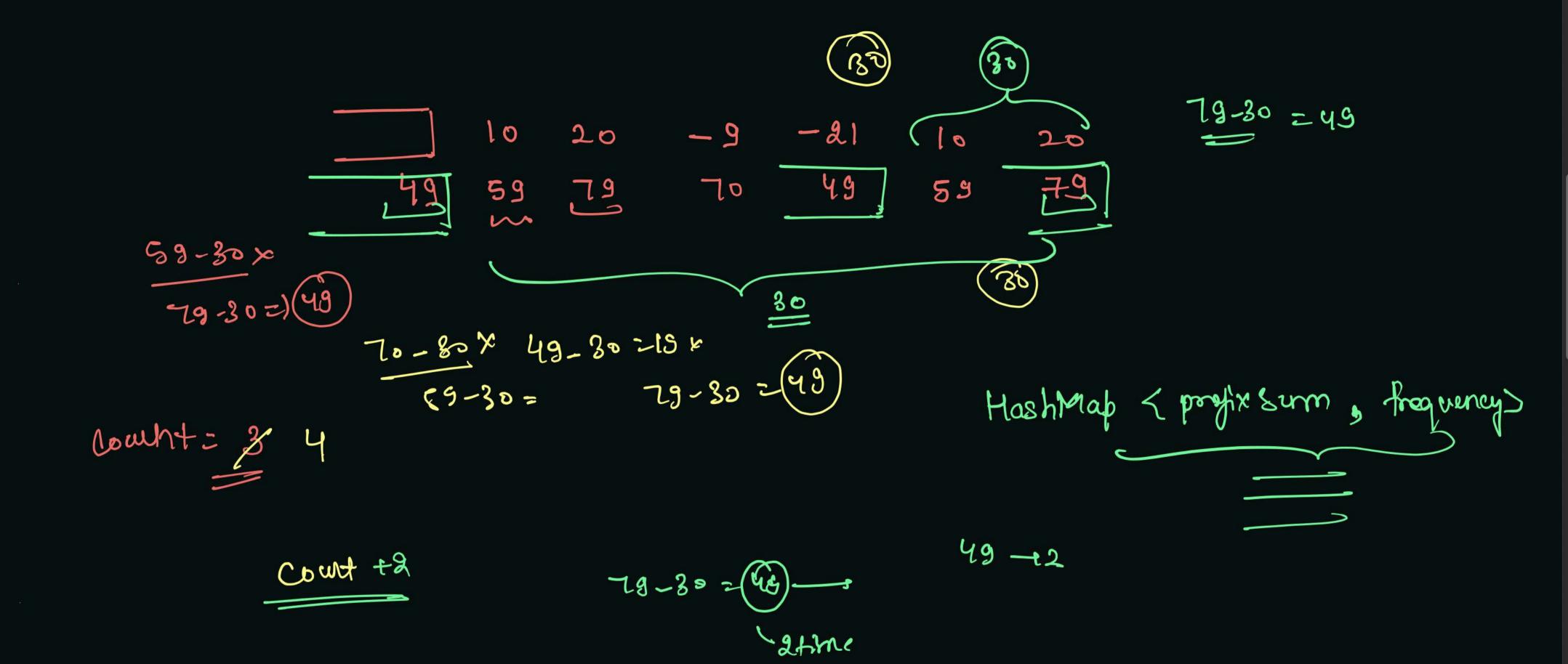
Val2 thodeval

S

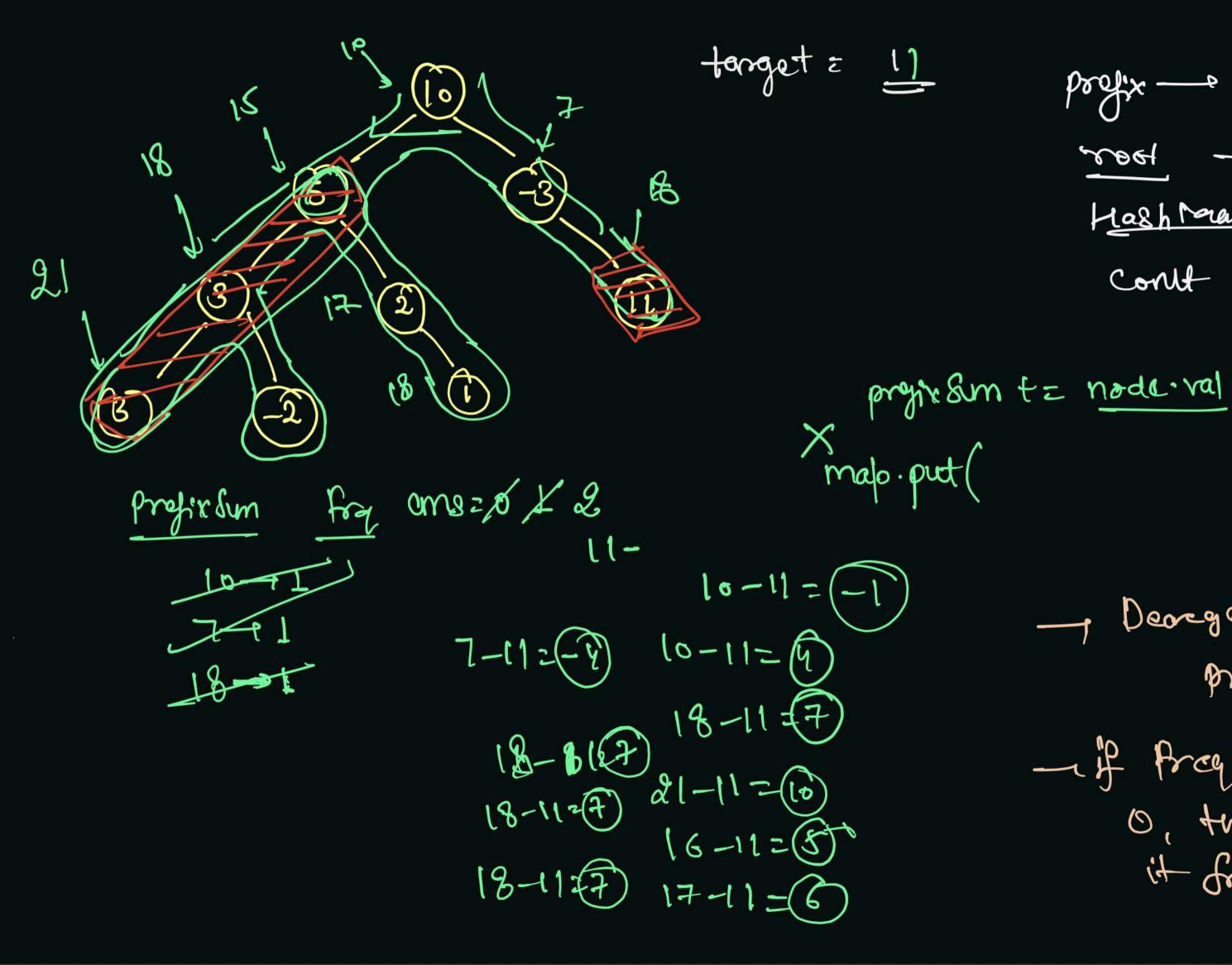
node va

Staric int overall max = -00 // Identity of max in -0 vall = Max Poth sum from left subtree Rost to Noda Val2 = Max path Sum from Right Eubtra Rost to Norde should be return Fight for overall max What to parant Toverall Max vall+ node val 24 vall + node·val-27 Val2 2 mode. val ralg + node, val. YS node - ral vall + hode val + val2) => Rohm' ou Ke -00+1 = +m nod ral





tanget Sum = 8 Hashmy - prefix 8 um Decreme ans = 8/x map-gest (profix am) - 1); Ares - - map-put (prepix sum, if (nap got (progrix sum) = 9) majo romove (pyre sun)



Mash May -Contt - 8704 c if bilipgum s available is they map then grage freg. Often wise Deorege Jose of udd pregix sum. profile sum with beeme value 1

orguments-

O, then remove

it from teas troop.