

fatth? retime clianieter of the hee starting from not Ease Case (Noole root)

Base Case (noot = = rull : retrom 0; via dia LST = diameter ( voot left); 60 70 80 90 ut dla RST = diameter (root, right); - Calc. de'a. passing through nool. -> h RST -> dia Throyu host = h 4ST & hRST & ) dia Tree = max (dia 157, dia 257, passing Ross),

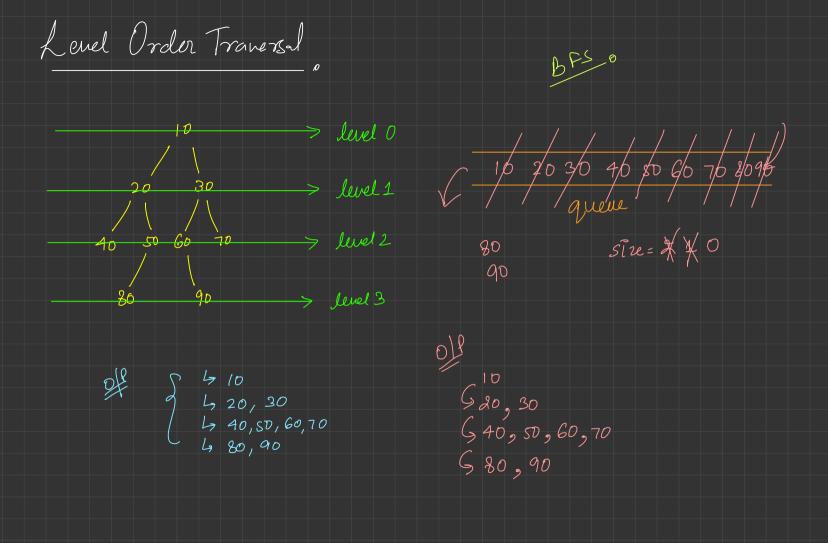
dia = - x x 2 Mometer In O(N) TC!OCN) SC!O(H) un dia> -0 int height (Noch root) of (root = = nul) vetum 01 Eux hLST = hégut (root-left); ua li DST = height (nost right); rehm maniflust, huss, + hust eig, of a her work his NOT ALBURD in mervies

decemeter of the tree > 3 mone hist, hest) + 1, man (dialst, dialst, 1 hist + hest +1) faith: retime du & Height of the tore! in le

bith. volume or rust. Is Tree Balanced? La when each Node is Balanced! / hlst - h RST / 5 / poolen is balanced (10 ode rost)

9 Pt (rost = = NULL) vetur T; F 7/10 boolean LSTB = is balanced (rod. left); boolen ASTB : bBalanud (roof nylt); 90 50 60 70 (7 Cleck noot Balanced or Not, Is get higher and also diff. of if (15TB = = True & RSTB = = True & E | return T; return C;

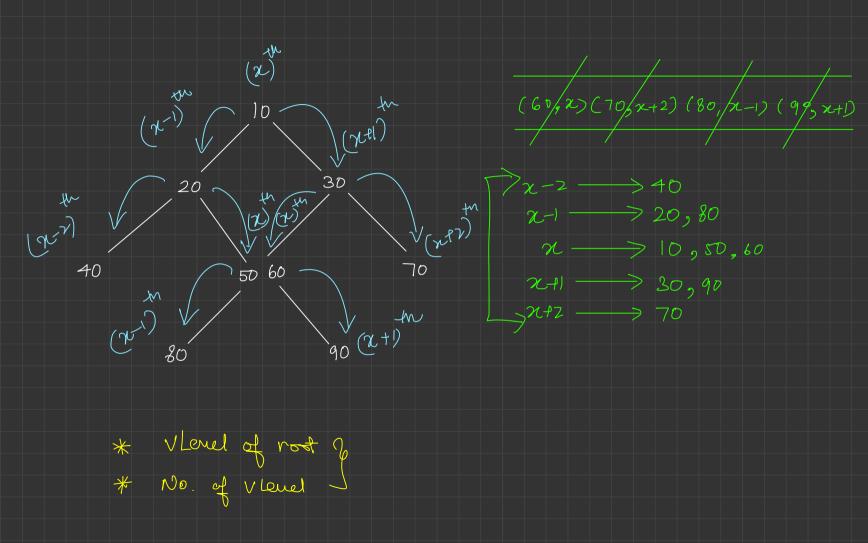
man [Lsih, Rsih] +1 } 3 's Bulmed, h. farth! Neturns is Thee Balancel & hight

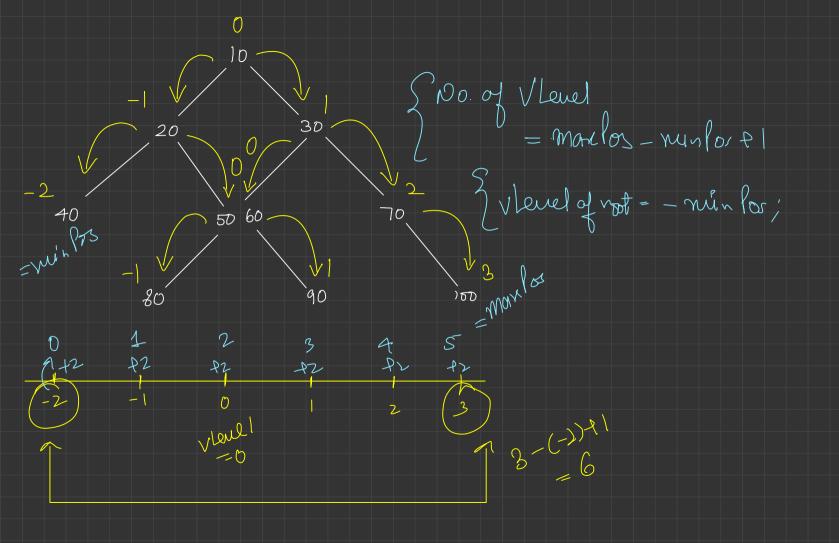


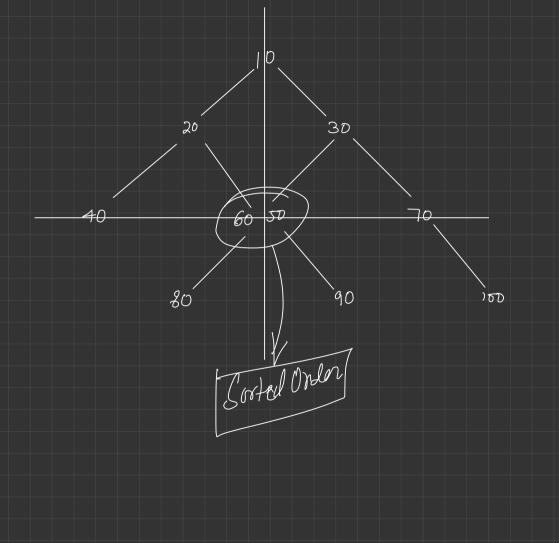
I first Nocle of Couch Level y Left View 10,20,40,80

Lig Zag Travers Sodd Javel Do. (R. 3L)
even even even even even 90 80 [10, 30, 20, 40, 50, 60, 70, 90, 80]

Vertical Order Traversal. 20,80 10,50,60 30,90 40 60 סר







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