

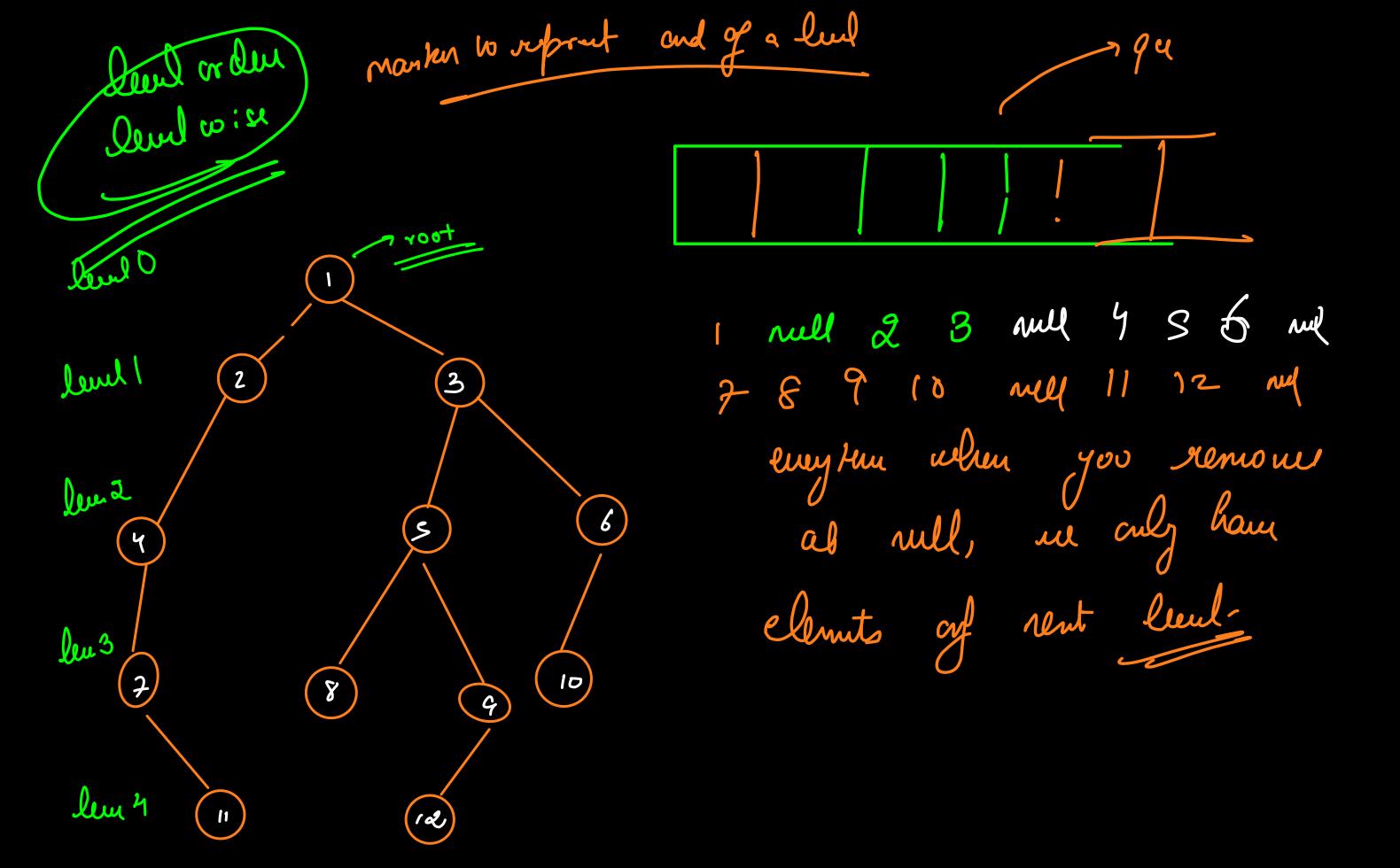
gv. enqueu (root while (not quempty (7) ( front = qu. get front (); qv. dep uu (); if (front. 1991! : mill) que (front. (gt); if (front. right! = mell) pv. enguer (foort right); Priat (frant. val);

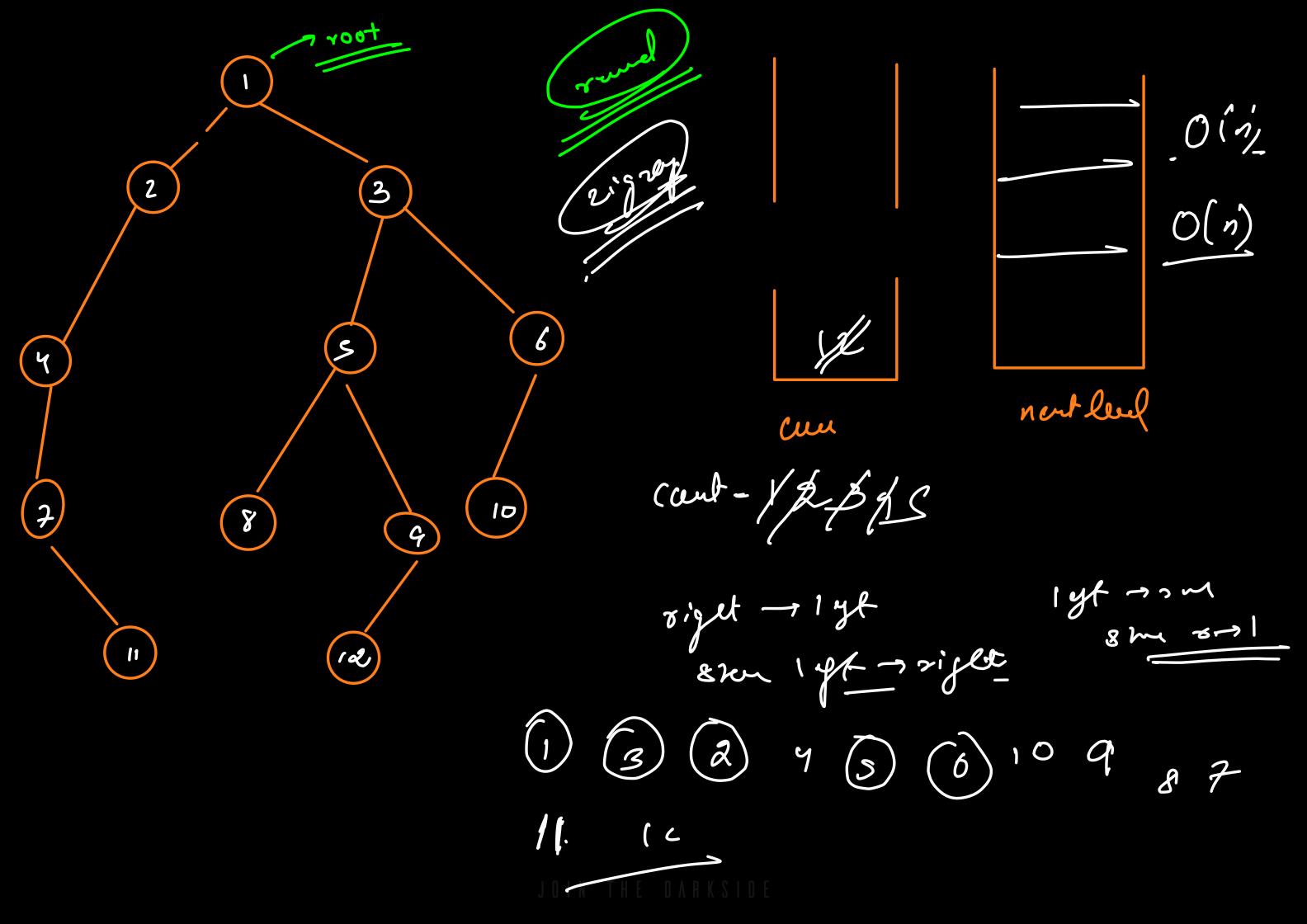
3

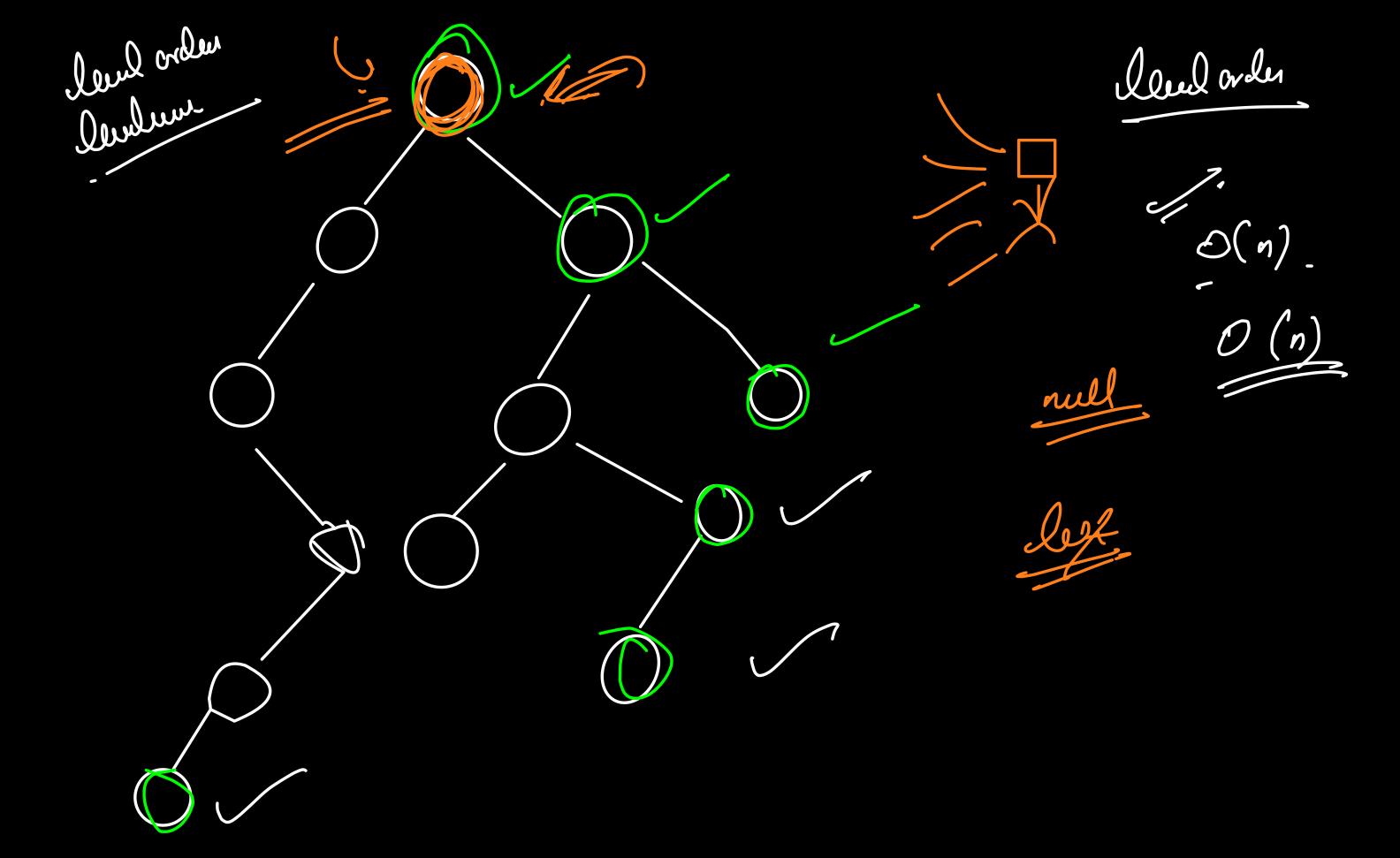
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Catal 1 nodes 2 h -> no. of nodes an last

Leul I How may nodes are at the last level tatal nor of nodus i'i a  $2^{6}x\left(2^{h}-1\right)+2^{h}=n$  $2^{h}-1+2^{h}=n \implies 2^{h}=n+1$ 



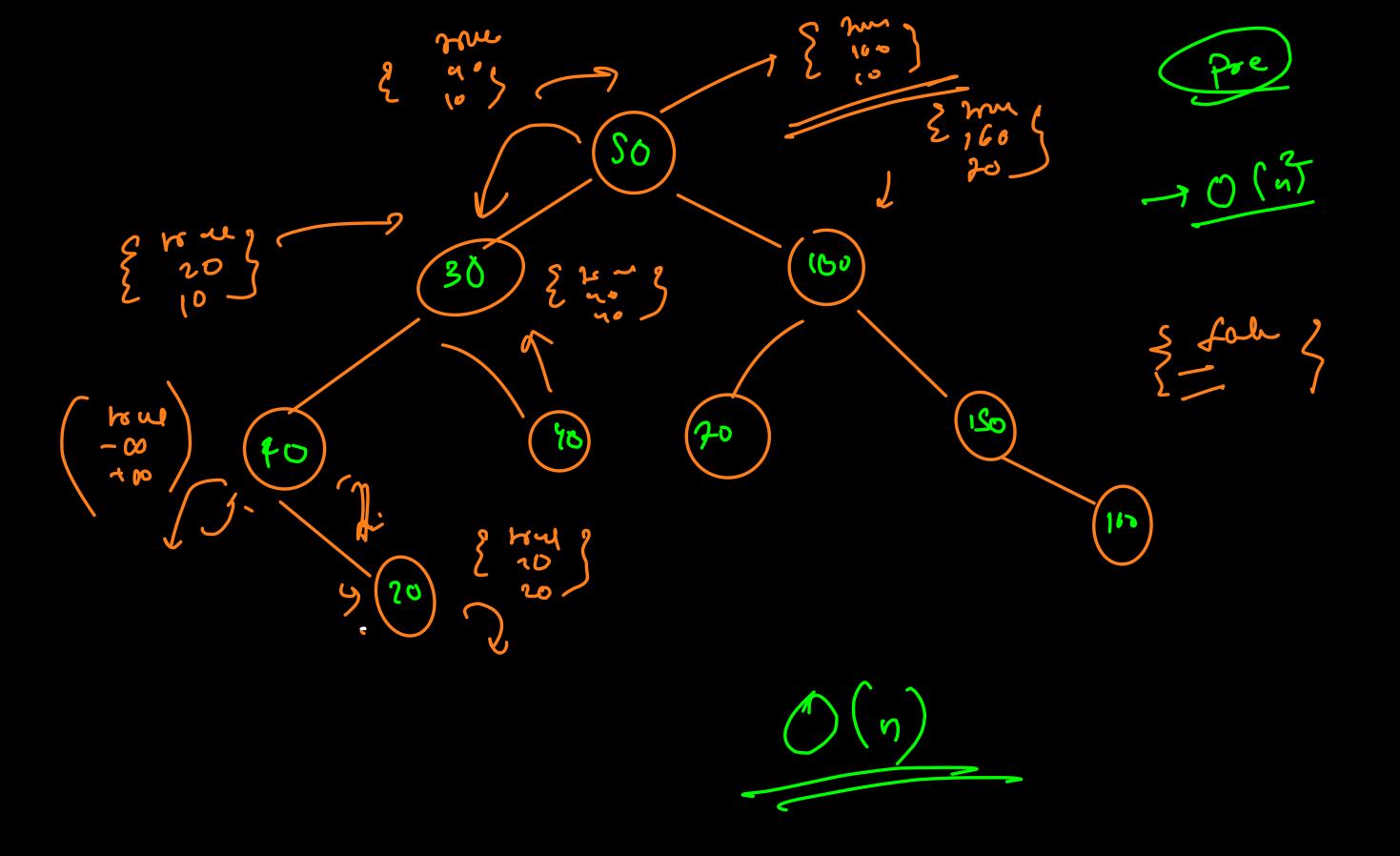




Reun Pre Rylet we are Boulula Ru Gost um rod will 4 2 M 8)3 (3) Clur \_1 em = 0 reens, he Ccl, ma (0)

Binay Tree BST all the elements of 1st 2 root all the elements of 1st 2001 recording 10

Property > Inorder transal of a BST is always sould. SO (60 20 30 40 50 70 100 150 160 (0) 20



2 - f (root.(gt)  $\left(\begin{array}{c} (root) \\ \hline \end{array}\right)$ 8 - fl 200 t. 5; gli) if (d. isBS7 and r. isBst and max rook, val > d. mas and root. val < Y.my) Min reten { isbs! : my is Bst mas: P.m.x, 8.m., 8001.04) is BST - hour

 $Max \rightarrow -00$   $Min \rightarrow +\infty$ 

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