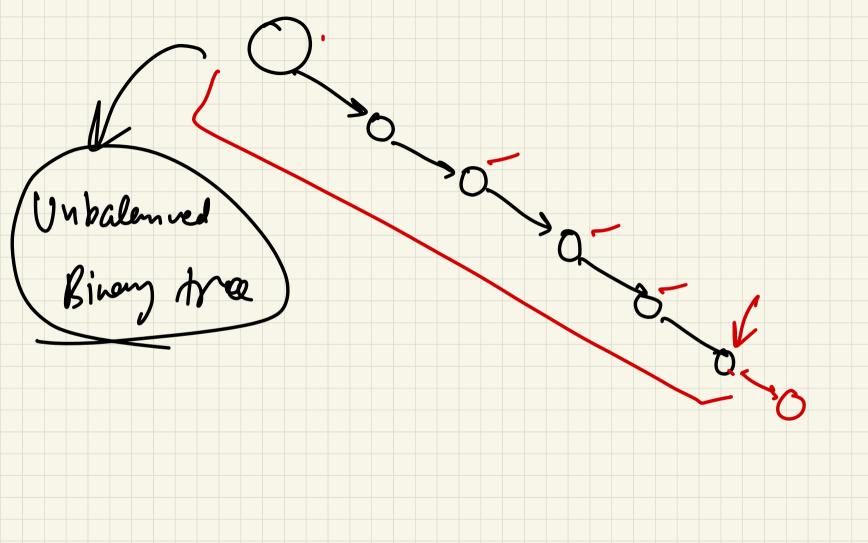
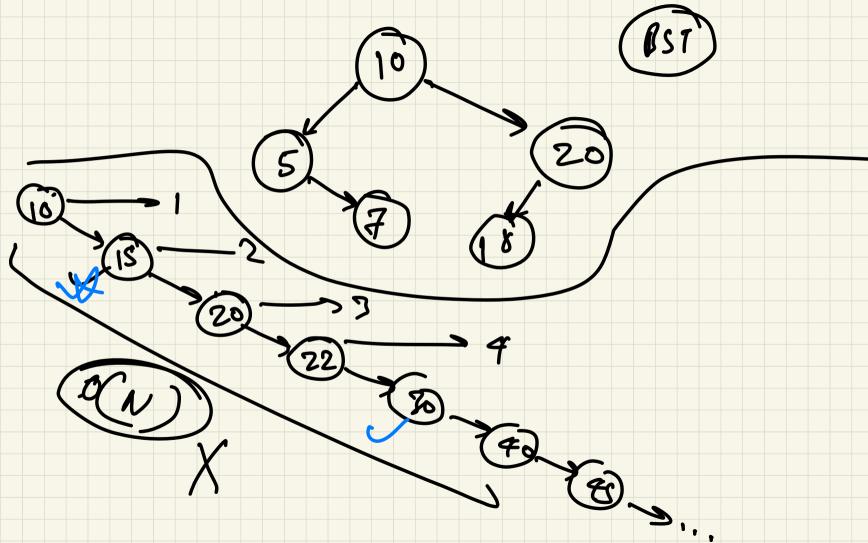


Trees fre-reg: (1) Le consion V (2) OOP /

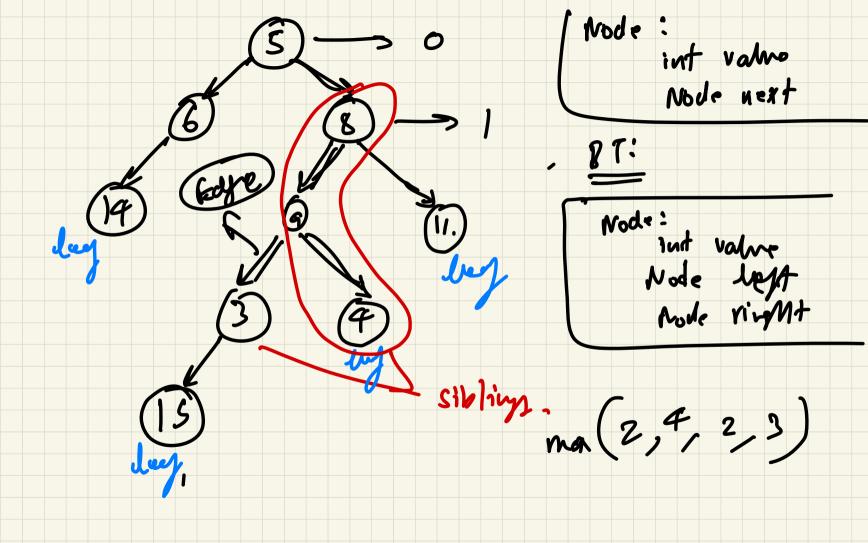
Why? 0->0->0 .... o (log N) & Ordered storage \$ Cost espicient



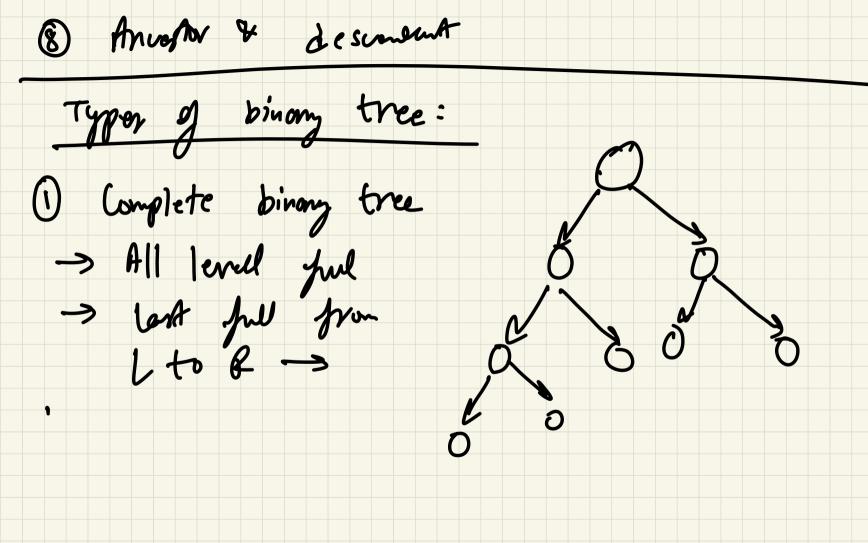


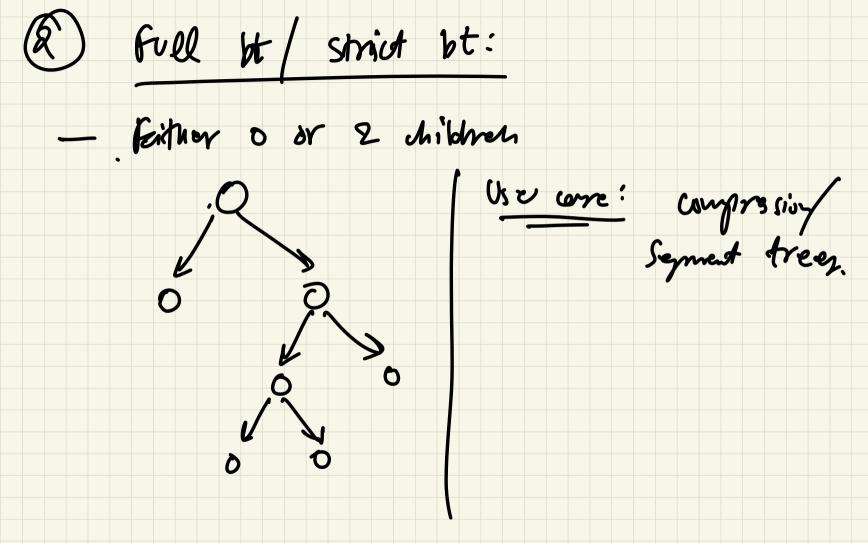
Sey ralenne BT.

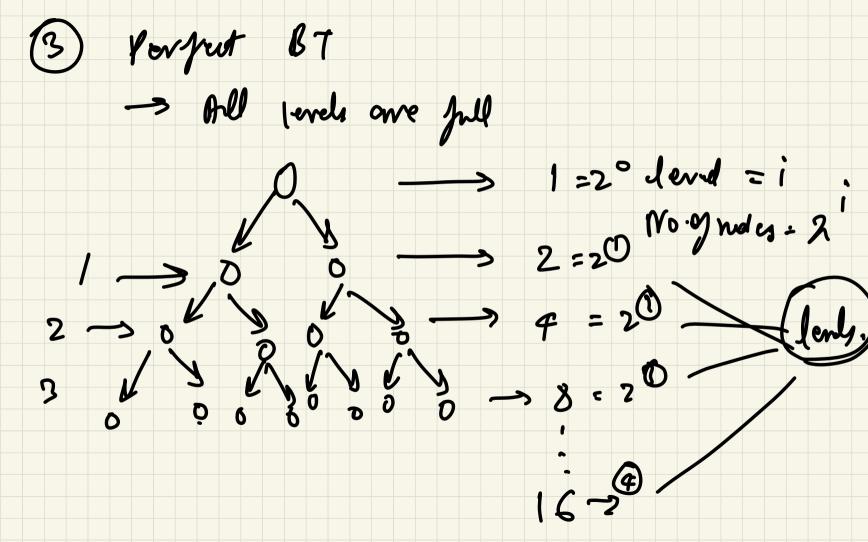
From concept How to solve? Where is it used? (4) moths ODTS -3(ML) 1) file systems (6) compression of files 2) Databurer 3) Algorithmy Networking 7 Future DS 1

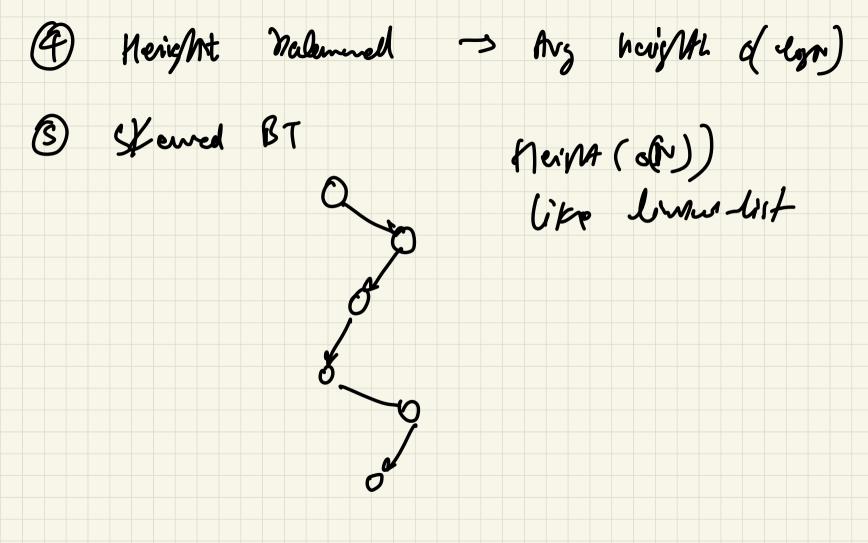


(3) De gree (0, 1, 2) (reportion: 1) Size = Total number of Nocles (2) Child & Perrant (B) Sibling @ Edge (5) Neinft -> Max no. 9) edges from the node k
(6) Ceep nodes node. (7) Verill -> Sub Neight of not nut level = 50 note.









Orders Bt Every vode her some groperty. Example: BST Proporties that will help you it some questions:

Perjet BT, neight = h

Total nodes = 2 -1

26 + 2 | +22 + 23 + \cdots + 2 | = GP

(N+1)

2 -1

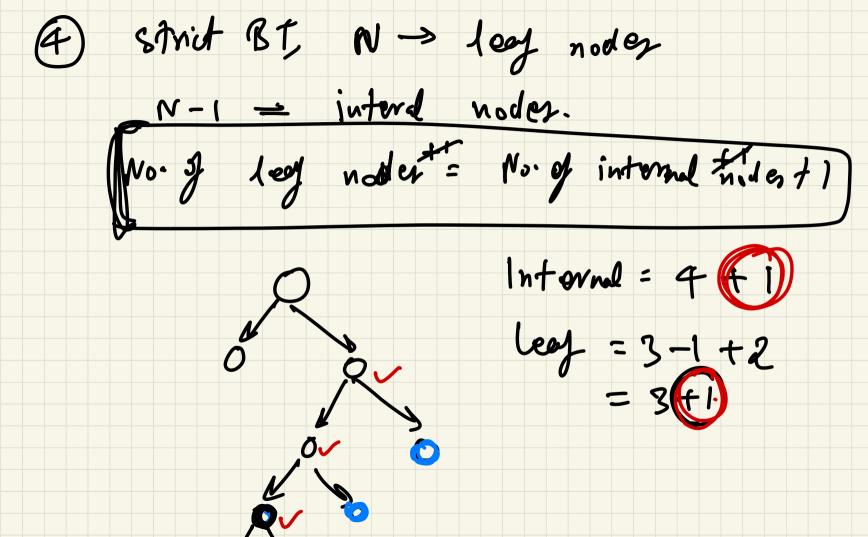
(N+1)

2 -1

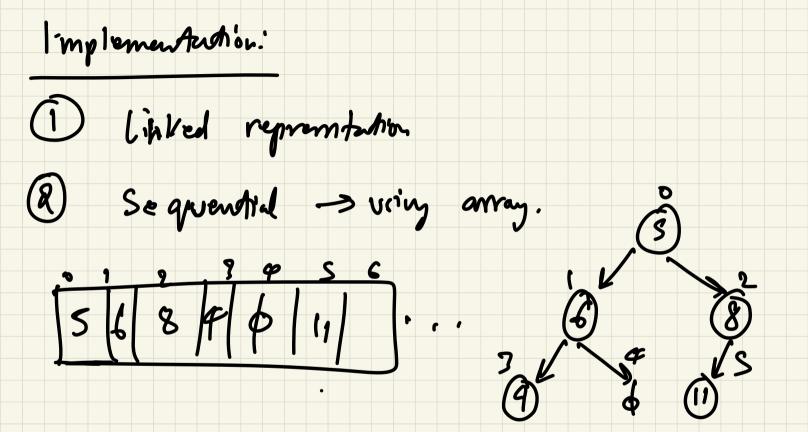
N = no.9 leaves

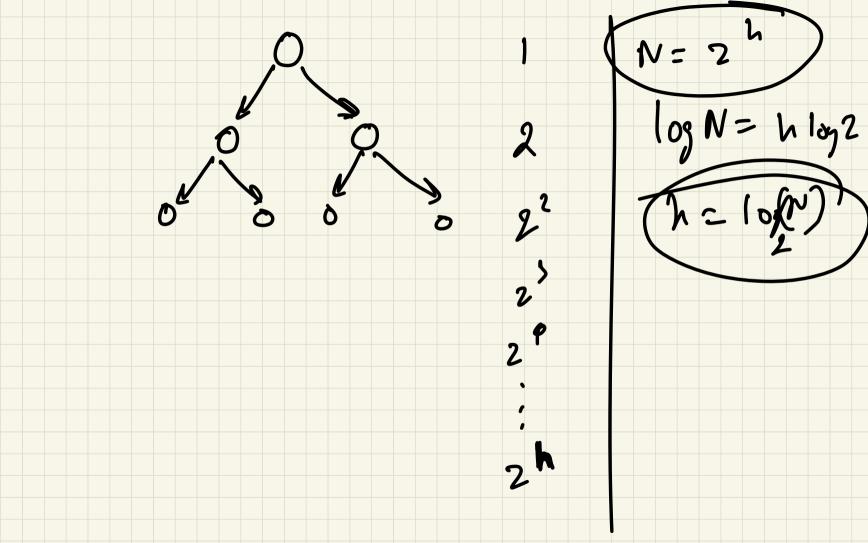
$$\log N+1$$
 levels at least

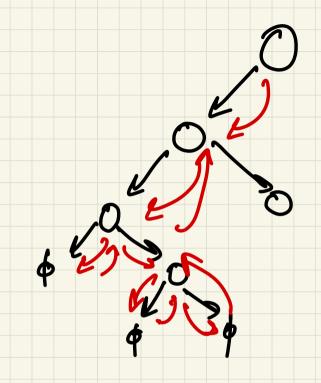
N nodes  $\rightarrow$   $\log (N+1)$  mix levely.



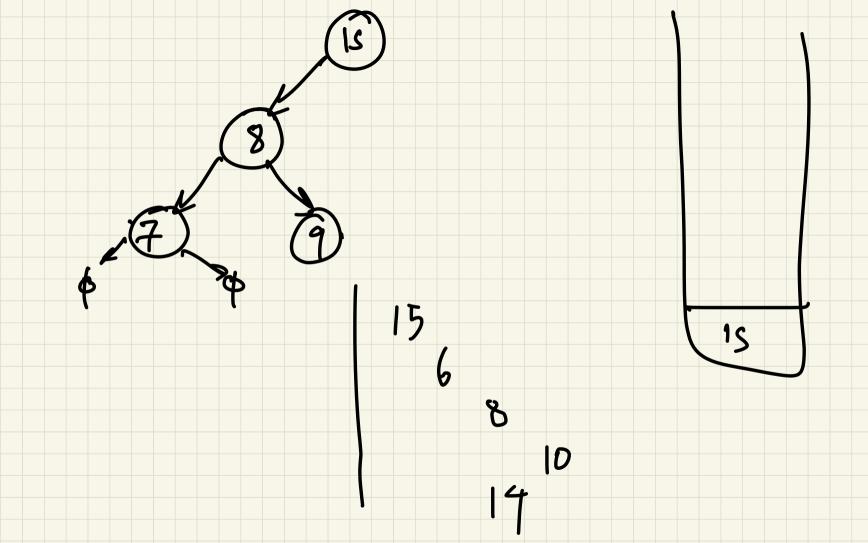
(3) No. of long noder = with 2 children ( not induly root) 4=1+3

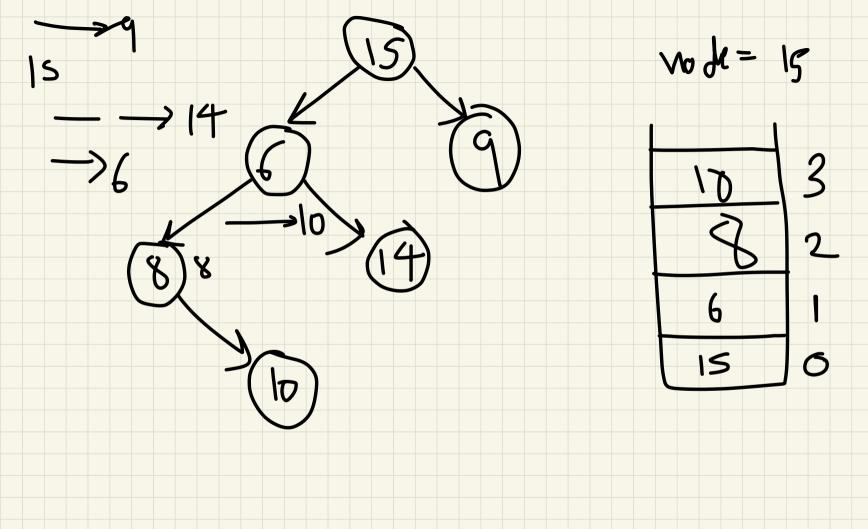


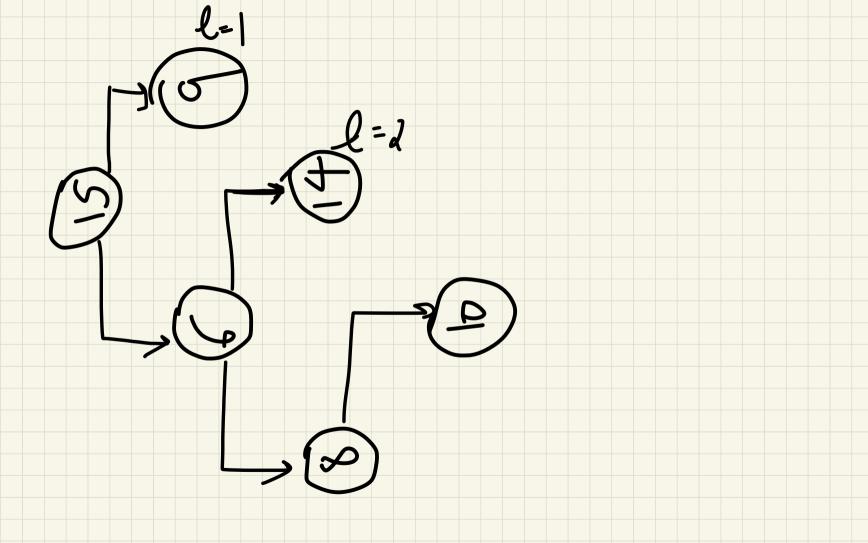


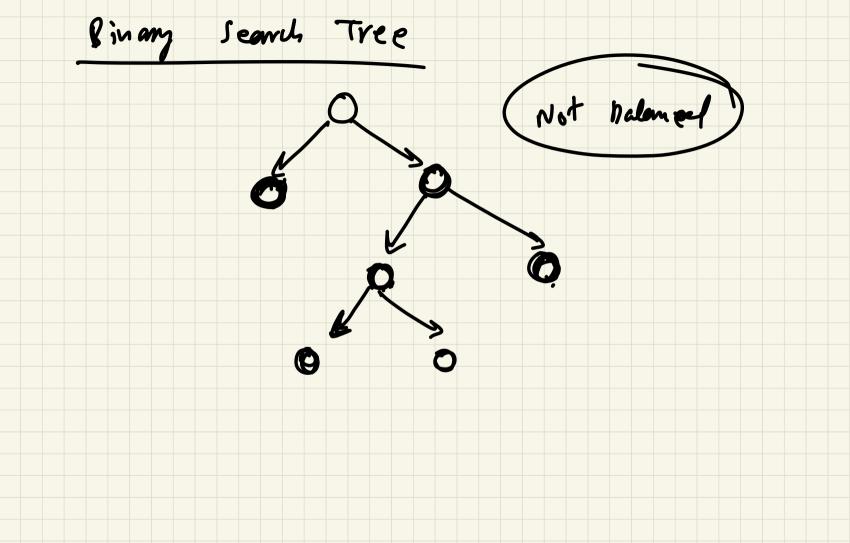


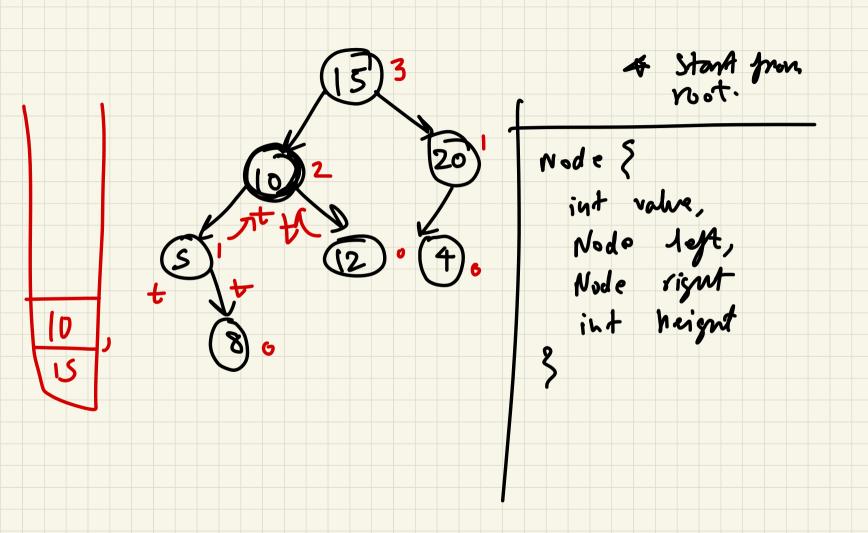
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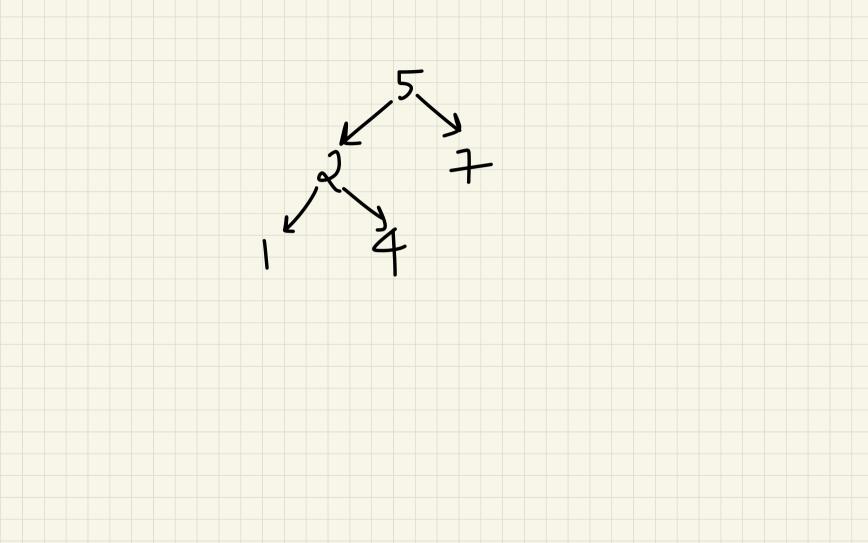


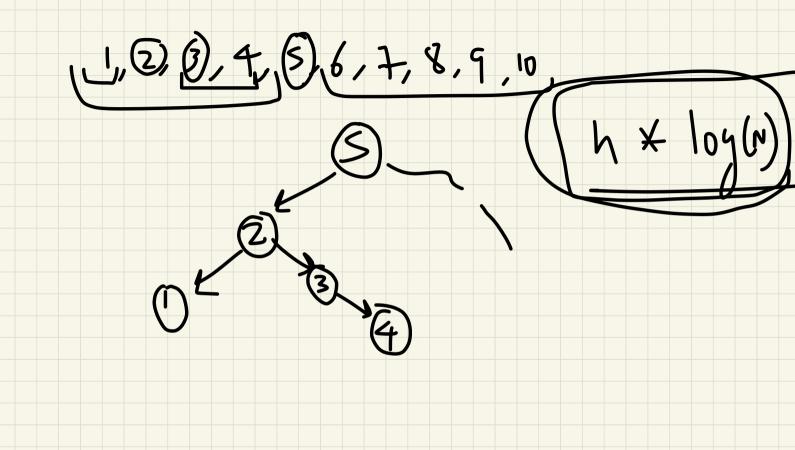


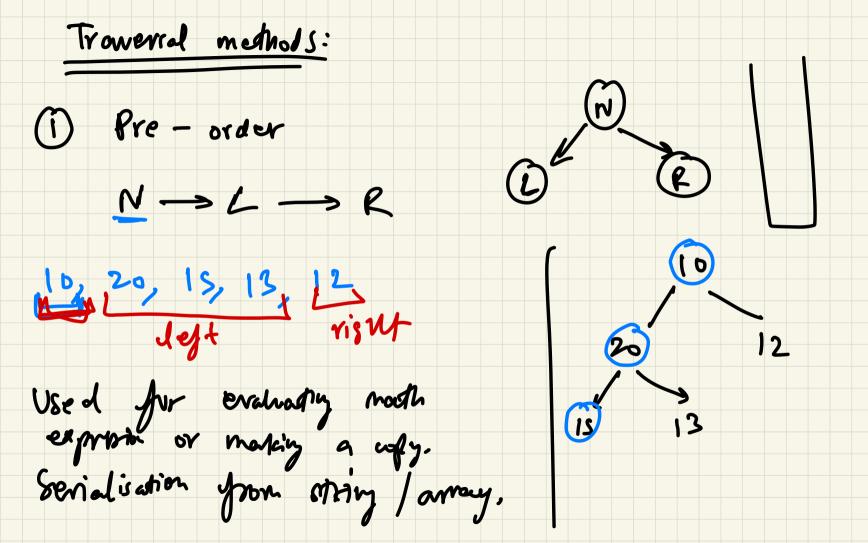


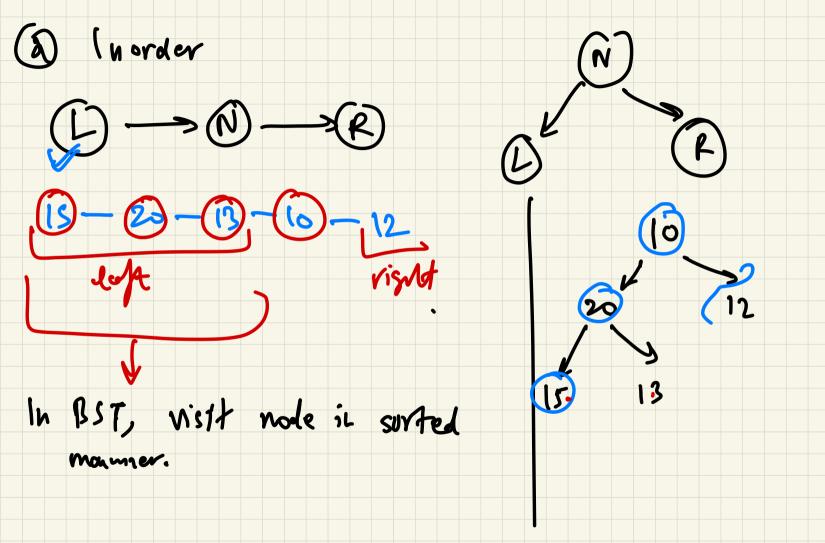


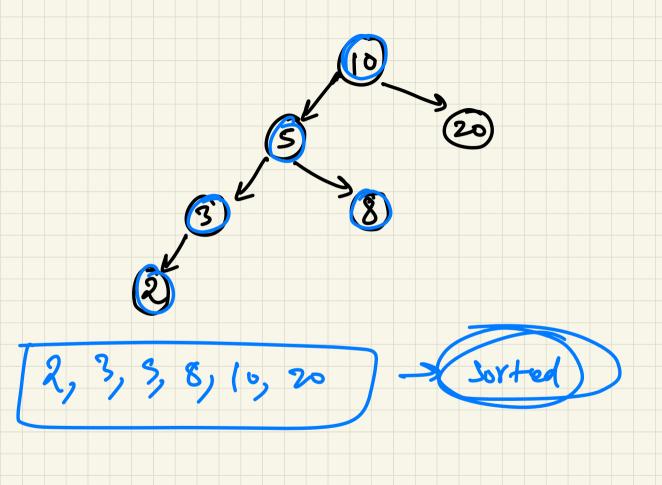


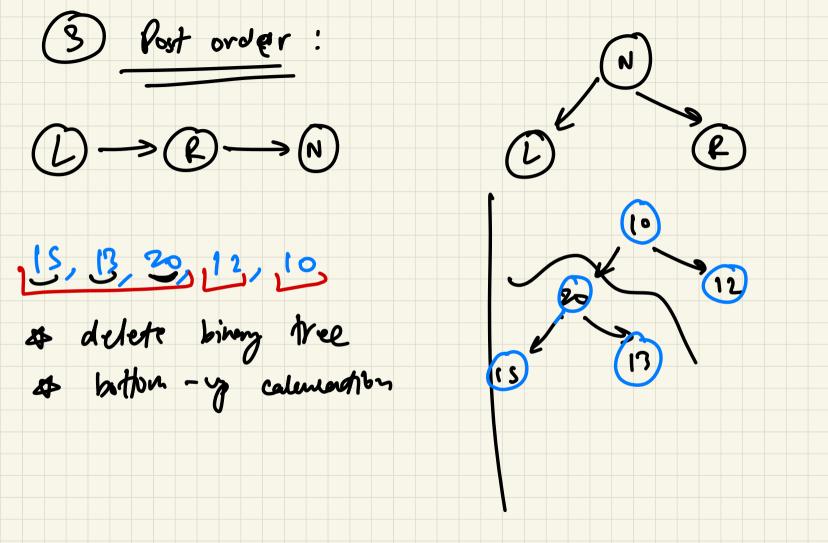












or BFT or DFT Separate video J Depth Breekh