

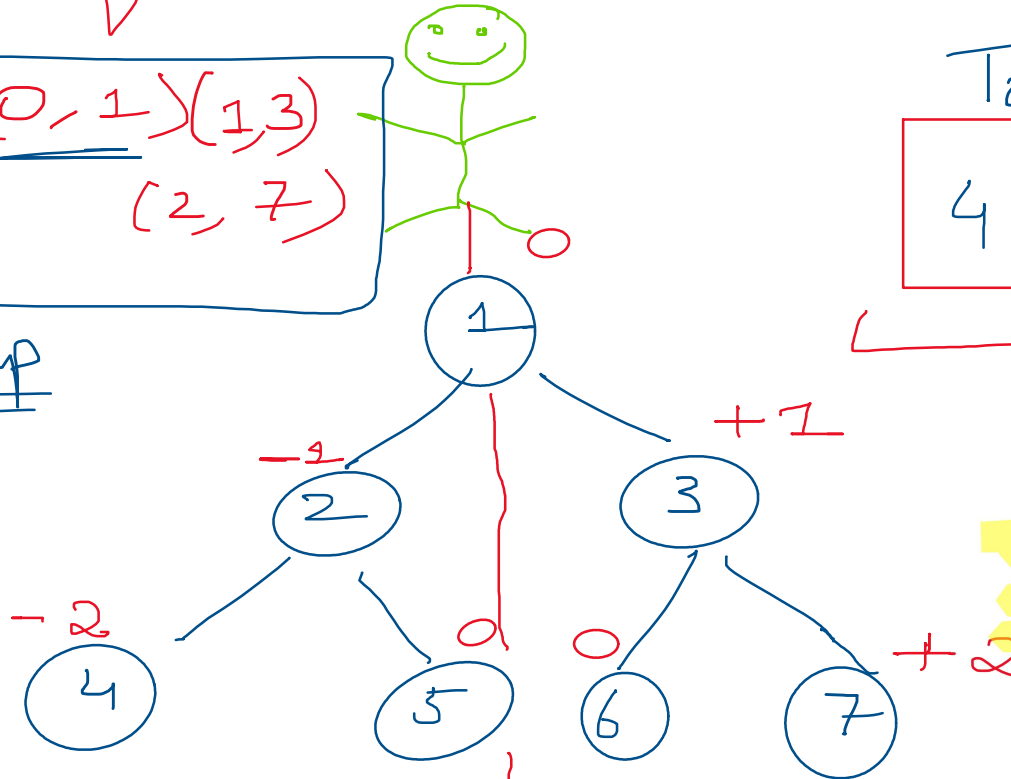
August - 1

01 August 2020 08:55

Top View of a B.T.

$(-2, 4)$   $(-1, 2)$   $(0, 1)$   $(1, 3)$   
 $(2, 7)$

X Top

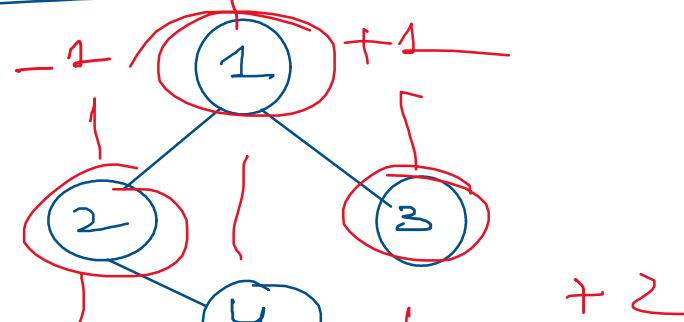


Top View

4 2 1 3 7

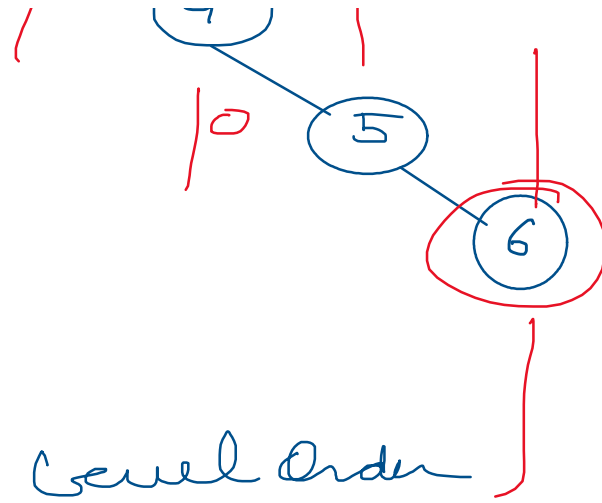
5 levels vertical

A → BFS A A



Top View

2 1 3 6



## Steps

- 1) Traverse tree in Level Order
- 2) Each Node will have a horizontal distance
- 3) Store the first Node for a new horizontal distance.

We want a map sorted according to the keys (horizontal distance)

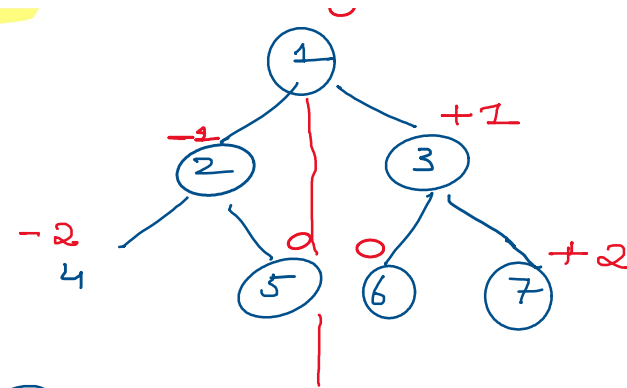
↳ TreeMap

Day Run

Node  
↓  
1, 0 → dist

Node      dist

—



Pair

Queue

(Node, dist)

Map

(2, 4) (-1, 2) (0, 1) (1, 3) (2, 7)

(dist, Node)

4 2 1 3 7