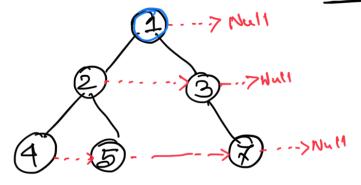
Populate Next Right Pointer In Each Node

Part 2



Using BFS where

T.C. = O(n)

S.C. = O(n)

[BFS solution]

Idea's Basically we are going to use Two Pointer approach here. We will run BFS, and apply two pointer, One is the current root and another is next which is the sibling node of that level.

Curr next we need to link between curr. next = next

Initially queue = [1]

queve. edd (800+);

while (! queve. is Empty())?

Wode curr = null; Node next = null;

in1 qLen = queve. size();

tor(Int i=0; i< qLen; i++) {

if (curr = nun)?

curr = queve. poll();

suppend left & right child in the aveve

else if (next = = nun) 1

next = queve. poll();

curr, next = next;

suppend left & right child in the aveve

else i

curr = next

Ţ	سالنالعا	range	quere	eurr	nex+	
1	1			Null	null	
	1	0<1	[1,2,3]	1	null	
	2		[2,3]	nuu	nul1	
	2	042	[2,3,4,5]	2	null	
	2	142	[3,4,5,7]	2 2	3	new we have our next.
						currinext= next
						(2)>3)
٦	3		[4,5,7]	null_	null	
	3	043	[4,5,7]	4	null	
	MM	143	[8,7]	1 4	5	(A)——(G)
	3	253	[7]	\$	7_	(\$) → (₹)
7				1	A	; ever next
curr = next next = poll(); every or				' / net		
			curra	we	ket in bolls	i ray walk
\			•	4	Views	

This is the corners ease, if our our and next both is non-null, the we will swap them. like

taking the new next from the queue; next = queue, poll(),

Stablish the link between the as before,