

Maps & Sets Part - 3

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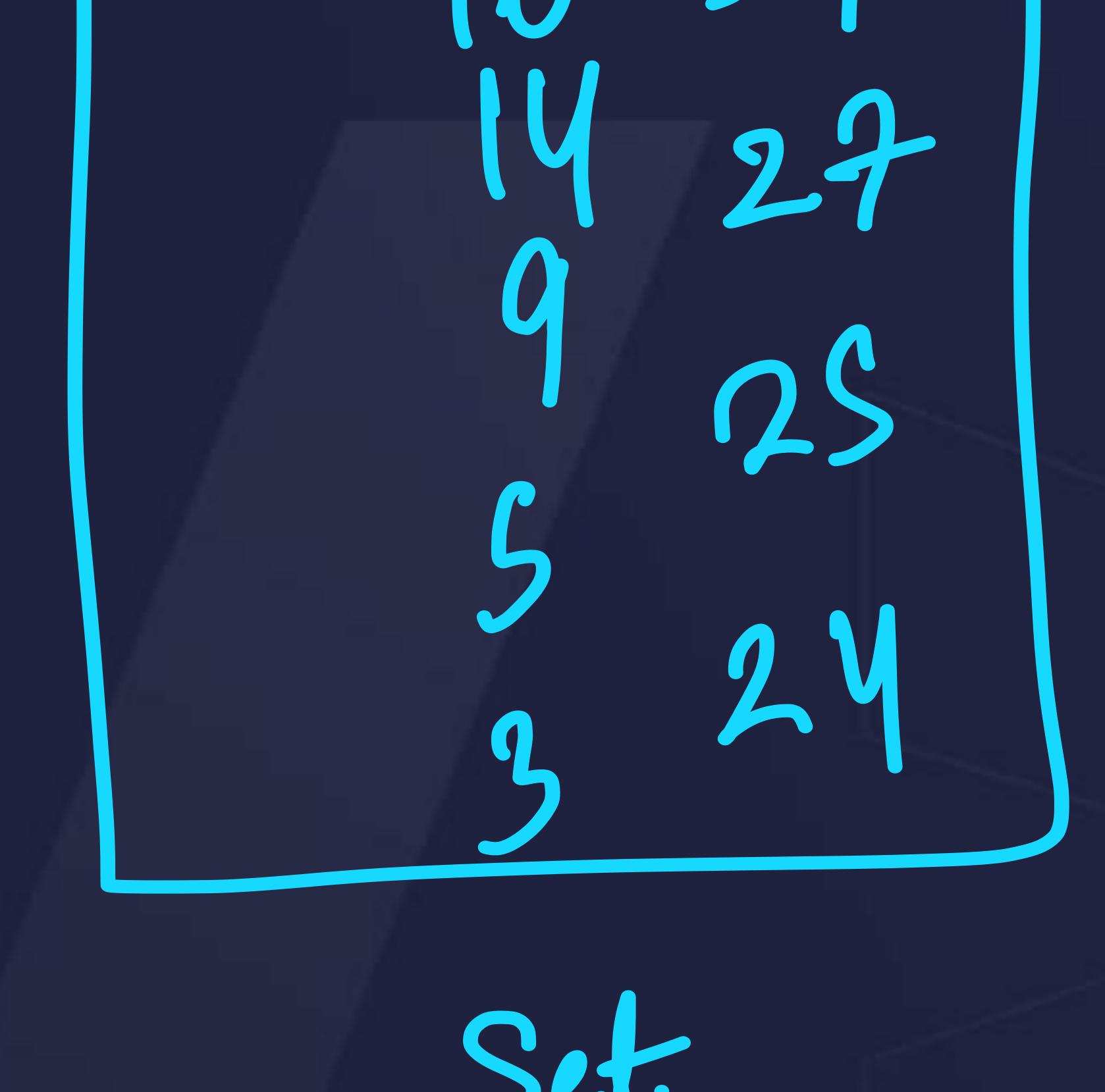


[Leetcode - 560]

arr =
$$\{3, 2, 4, 5, 2, 8, 1, 2, 4\}$$
 K=9

pre = $\{3, 5, 9, 14, 16, 24, 25, 27, 34\}$

Count = $\emptyset 1 \neq 84$



Garr =
$$\{-1, -1, 1\}$$
 $K=0$
 $\{-1, -1, 1\}$



$$-2-0$$
 $-1-K$
 $-1-0$

[Leetcode - 560]



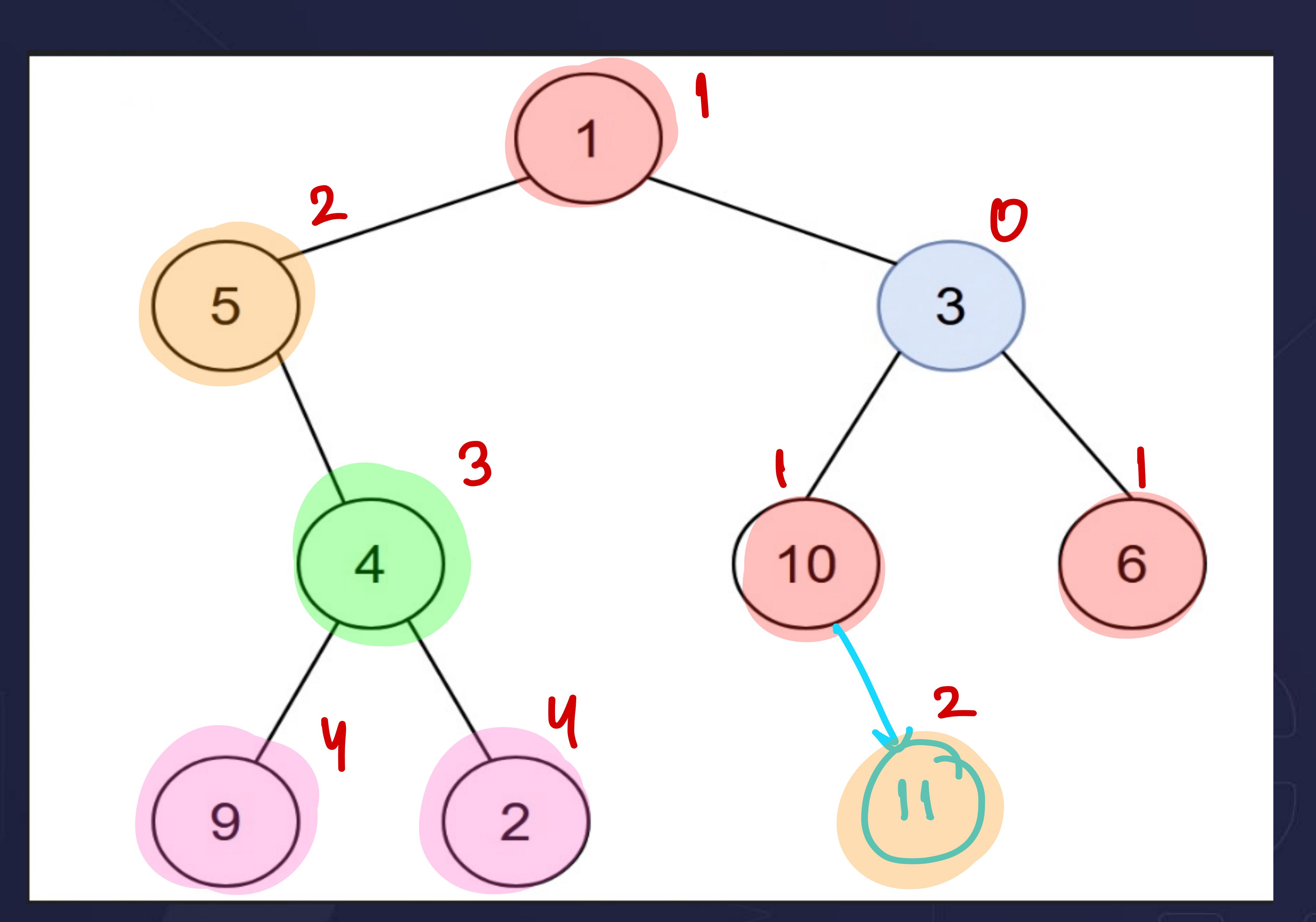


$$arr = \{0, 0, 0, 0\}$$
 $K = 0$
 $pre = \{0, 0, 0, 0, 0\}$

[Leetcode - 560]



Ques: Amount of Time for Binary Tree to be Infected [Leetcode - 2385]



$$start = 3$$

at time = 0 3

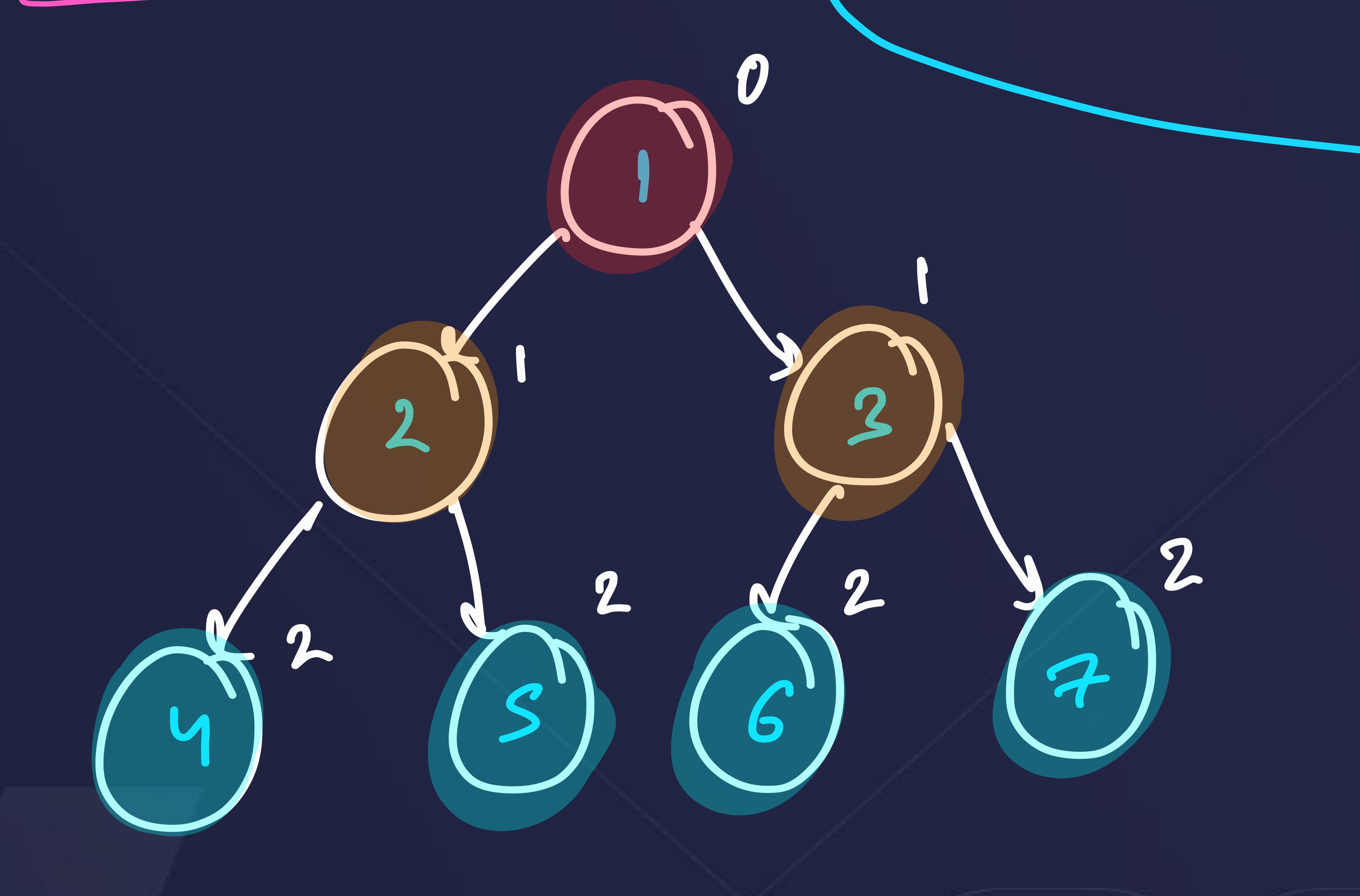
time = 1 1, 10, 6

time = 2 5, 11

time = 4 9, 2



Ques: Amount of Time for Binary Tree to be Infected [Leetcode - 2385]

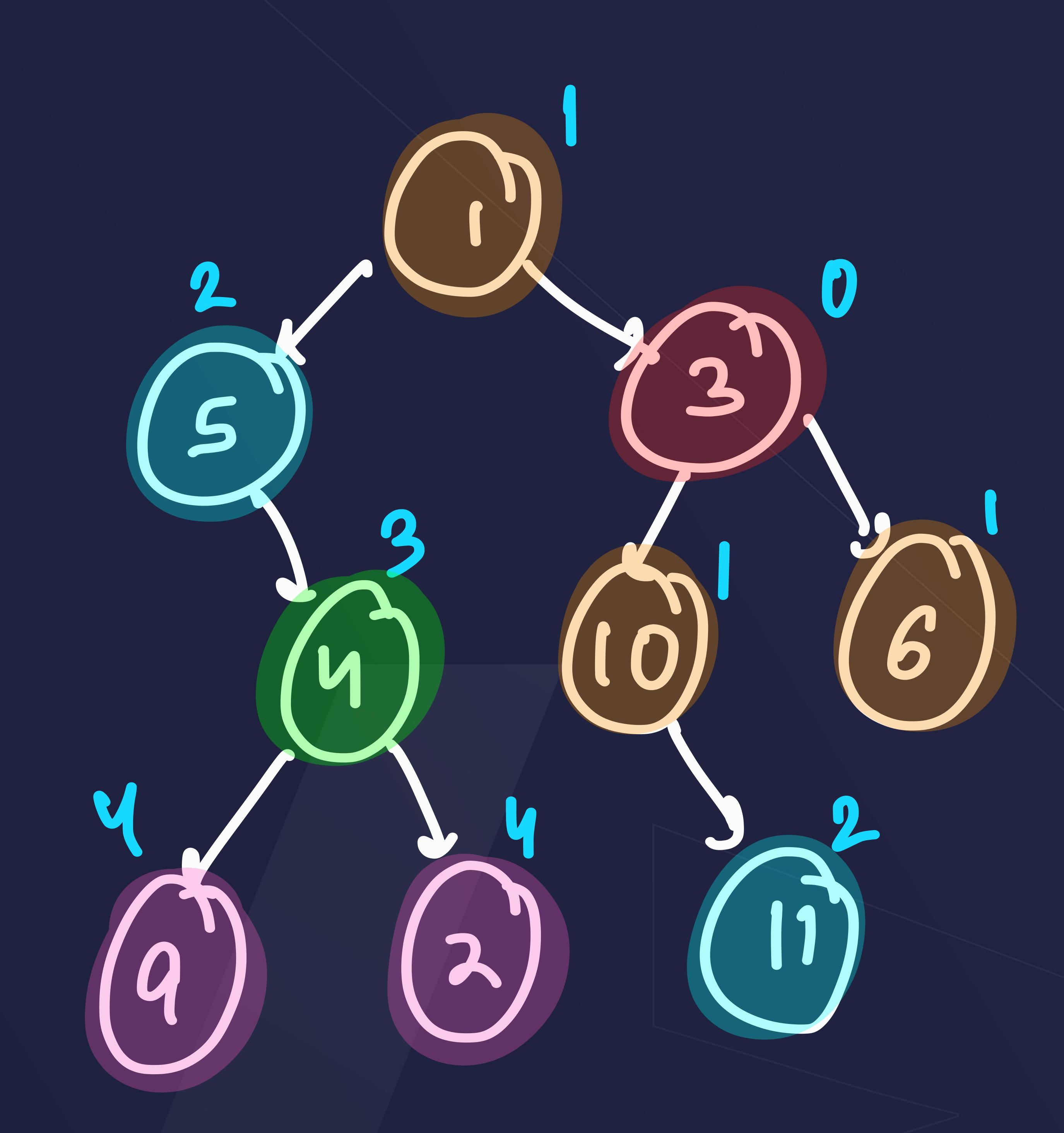


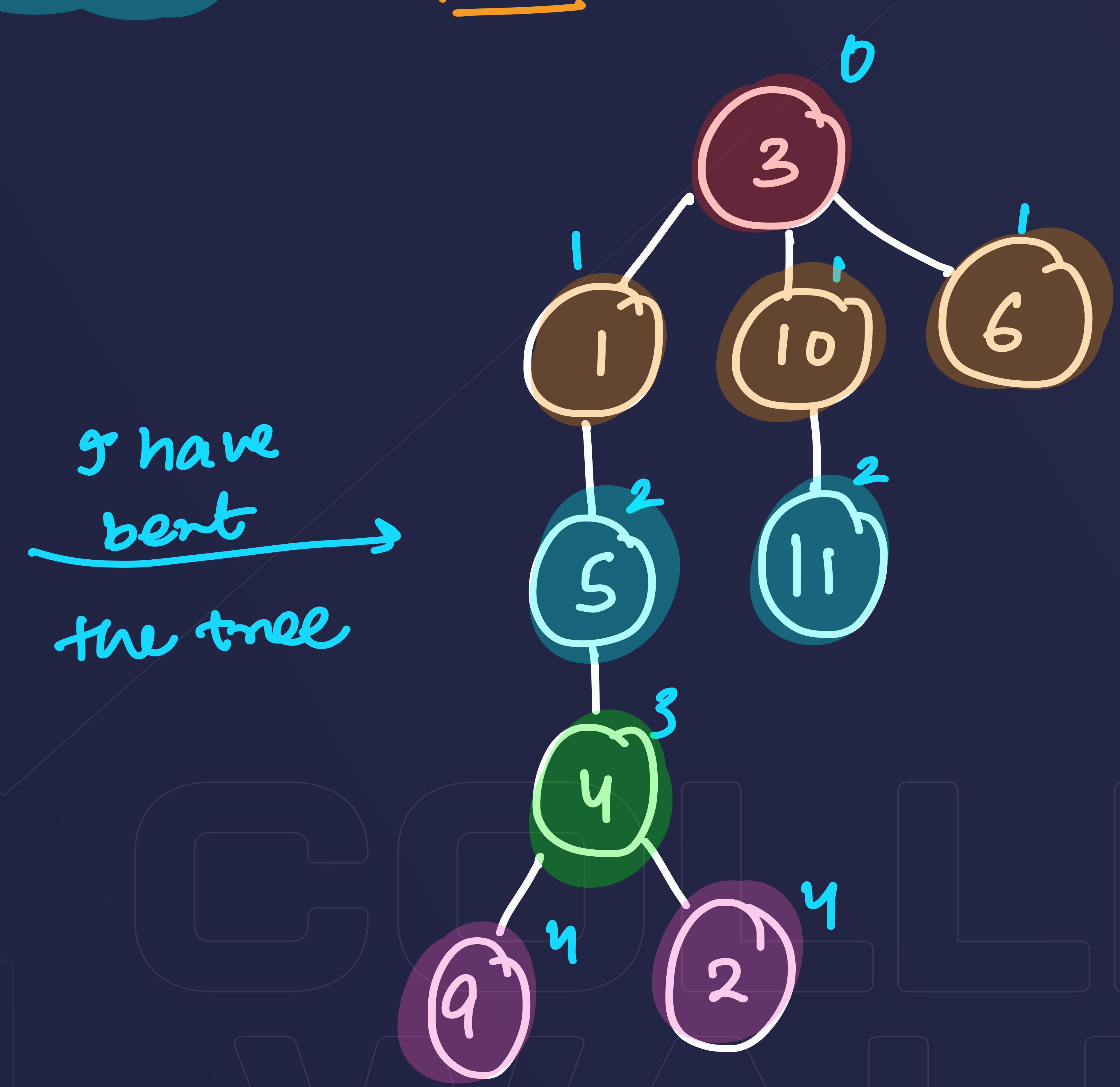
Devel-wisl infection

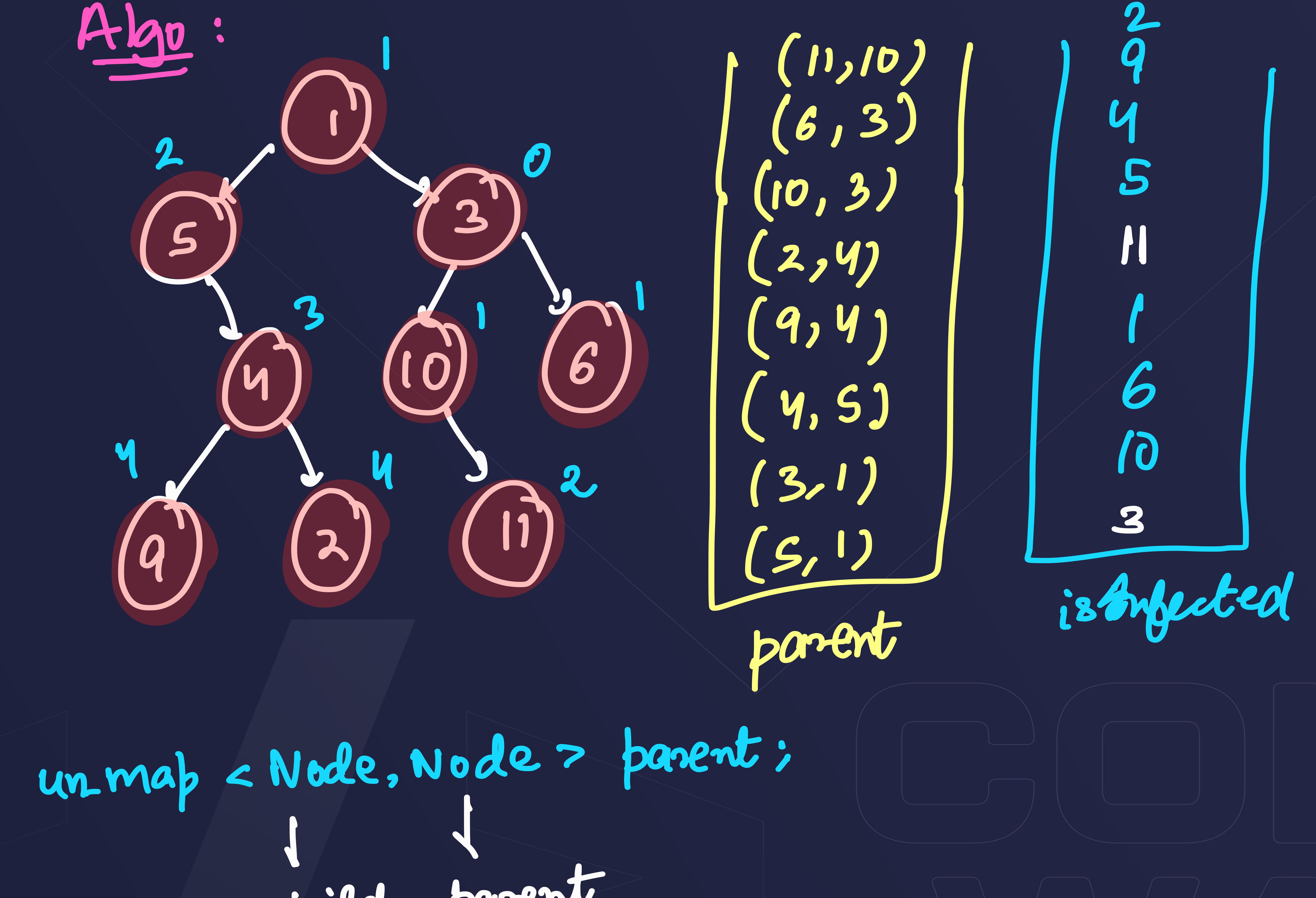
Is basically the (no of levels-1) in the bree from the perspective of the given infected node

BFS: Breadth first search > 'Queue'









queue 4 pair 1 Node, int ?> \$\square skills fmt = (2, 4)

child panent un set < Node > is Infected;



Step-1: Find the node with given value 'start'

Step-2: Mark the parent nodel

Ques: Group Anagrams

[Leetcode - 49]

```
arr = \{ \text{eat}, \text{teq}, \text{tan}, \text{ate}, \text{nat}, \text{bat} \} \rightarrow n \text{ elements} \}

K \rightarrow K \text{log} K \qquad S \cdot C \cdot = O(n \cdot K \log K)

S \cdot C \cdot = O(n \cdot K)
```

```
abt, & bat 3
ant, & tan, nat
aet, & eat, tea, ate 3

m)
```

un-mab < string, vector < string>> mp;



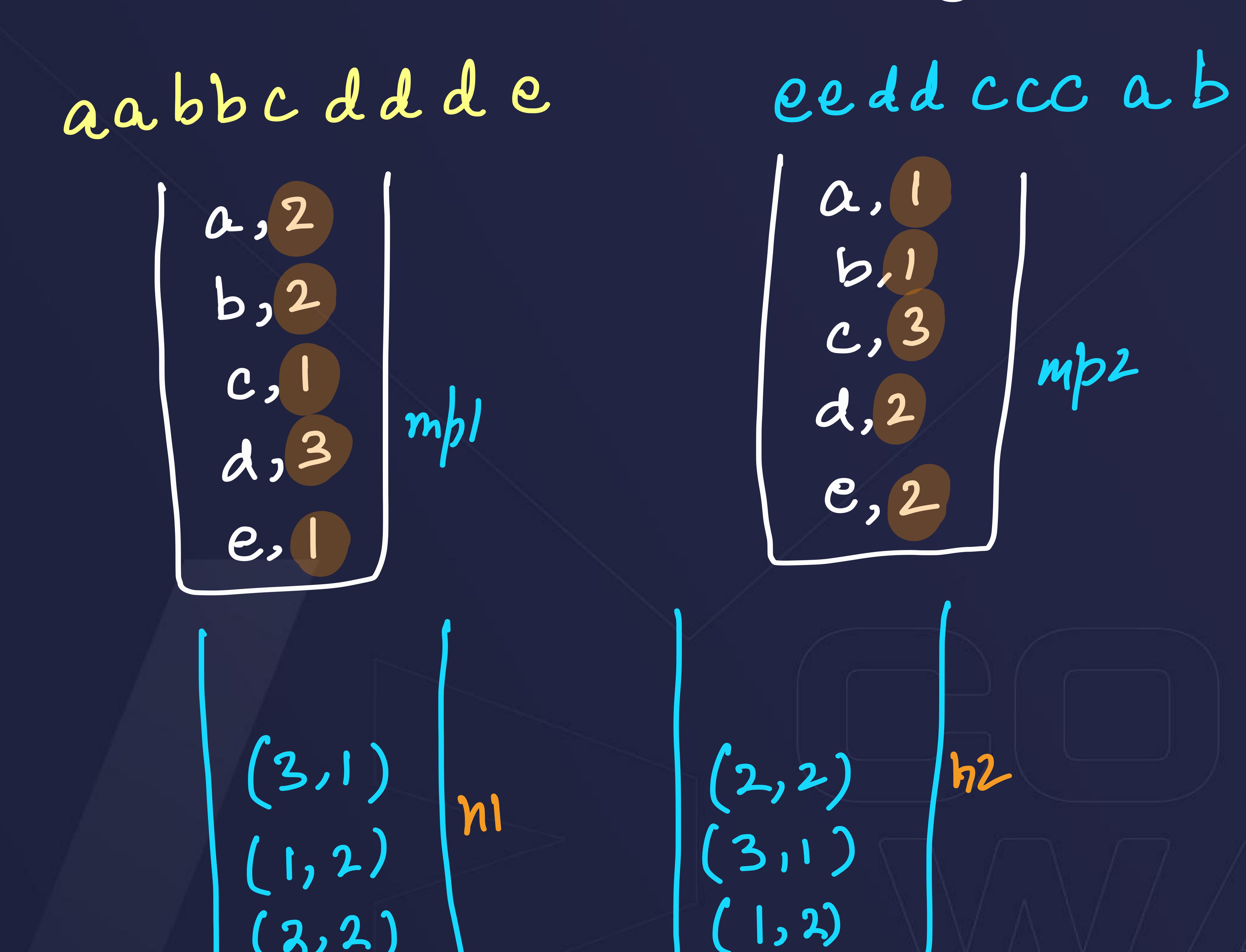




Ques: Determine if Two Strings are Close [Leetcode - 1657]



Ques: Determine if Two Strings are Close [Leetcode - 1657]



Ques: Check if Array Pairs are Divisible by K [Leetcode - 1497]

$$(1, 4)$$
 $(2, 3)$ $(6, 9)$ $(7, 8)$ $(5, 10)$
 $(1, 4)$ $(2, 3)$ $(6, 9)$ $(7, 8)$ $(5, 10)$
or
 $(1, 9)$ $(2, 8)$ $(3, 7)$ $(4, 6)$ $(5, 10)$

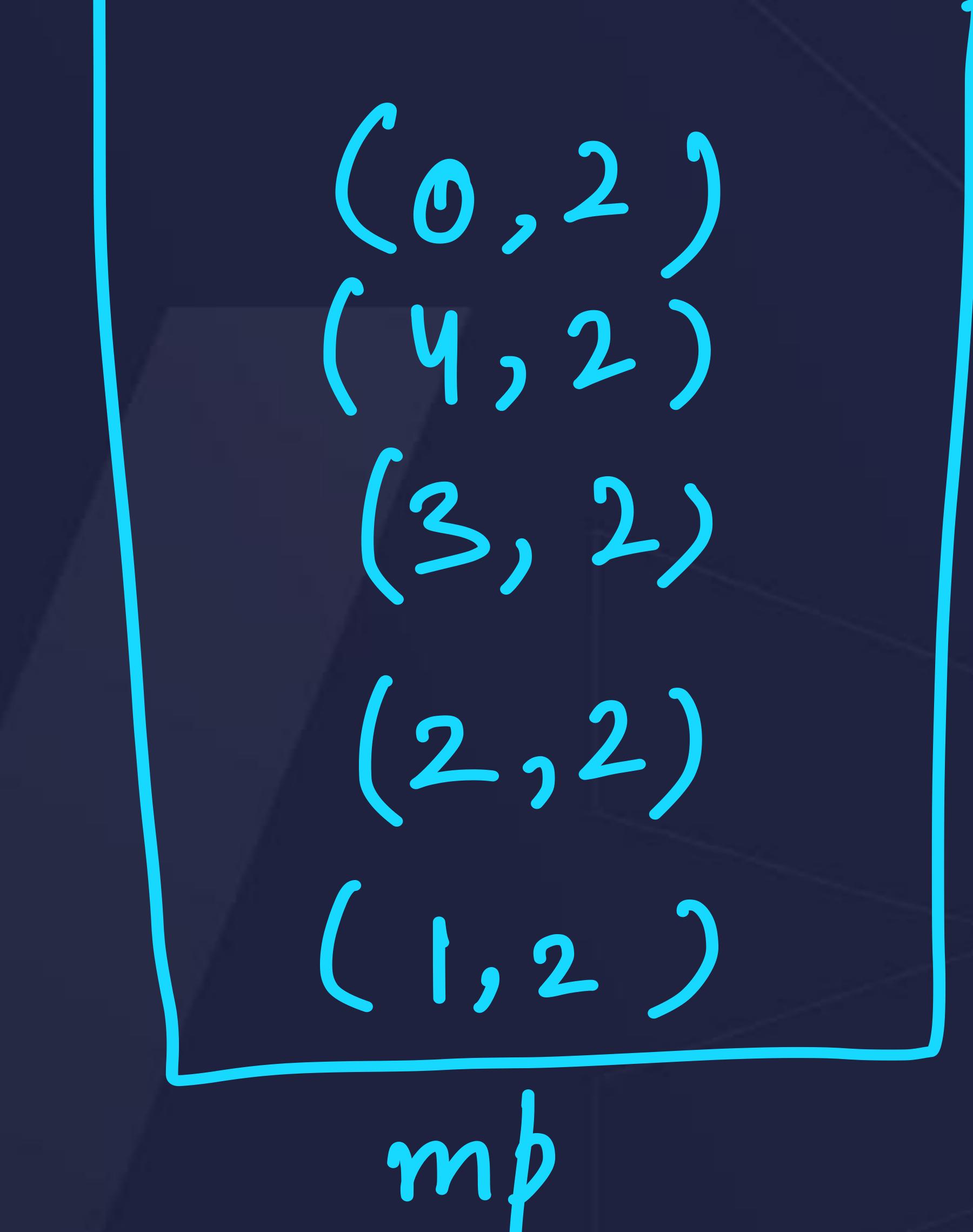
#Hint: Use % Operator first

SKILLS

Ques: Check if Array Pairs are Divisible by K [Leetcode - 1497]

arr =
$$\{1, 2, 3, 4, 5, 1, 7, 8, 9, 10\}$$
 $k=5$

$$\{1, 2, 3, 4, 0, 1, 2, 3, 4, 0\}$$
 ele %. $k=5$



SKILLS

Ques: Check if Array Pairs are Divisible by K [Leetcode - 1497]

$$arr = \{-1, 1, -2, 2, -3, 3, -4, 4, 3\}$$
 $k = 3$

$$(3, \{2, 1, 1, 2, 0, 0, 2, 13\}$$





THANK YOU!

priority-queue < int> pq;