

*Let's start at 9:05 PM*

L83

Some Problem Solving

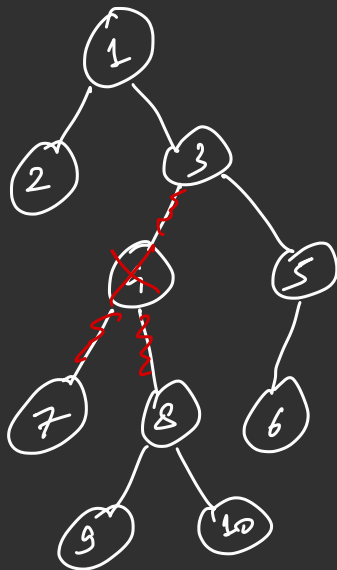
Join Discord - <https://bit.ly/ly-discord>

RECAP

## Practice Problems

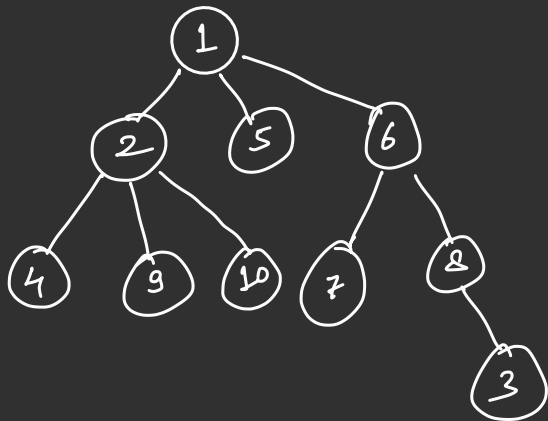
## 1. Highest Score

## Intuition



Let's implement

## 2.1 Sum of Distances - I

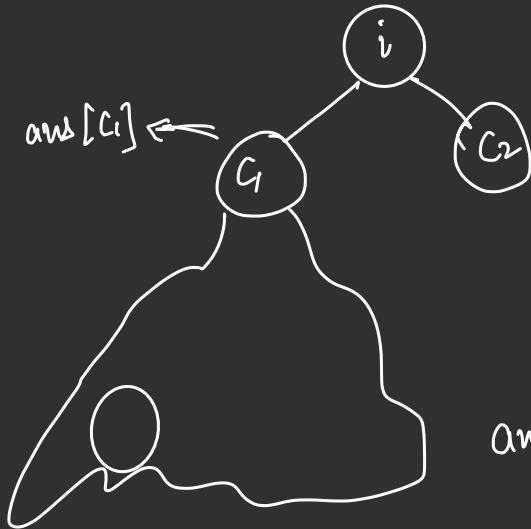


down

1	2	3	4	5	6	7	8	9	10
16	3	0	0	0	4	0	1	0	0

ans

## Intuition

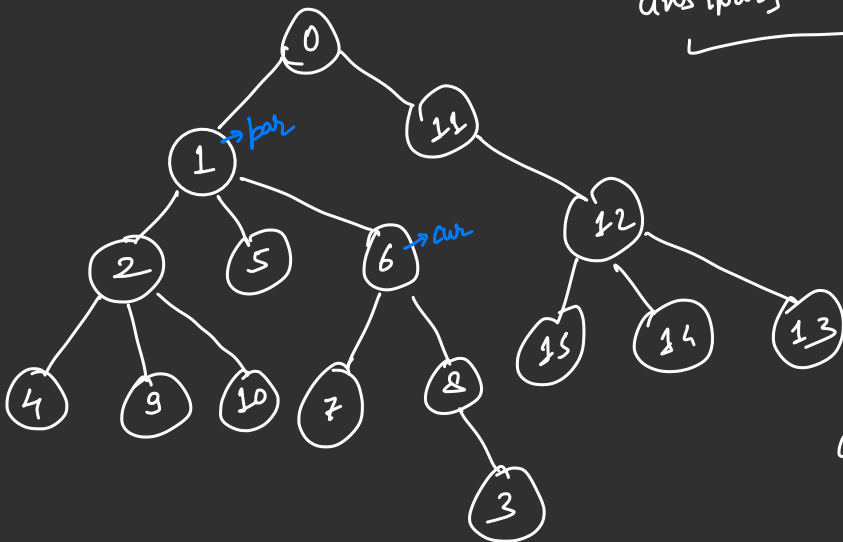


$$\text{ans}[\text{cur}] = \sum_{\substack{c \in \text{children} \\ (\text{cur})}} (\text{ans}[c] + \text{sub}[c])$$



## 2.2 Sum of Distances - II

## Intuition



$$\underbrace{\text{ans}[\text{par}] - (\text{down}[\text{cur}] + \text{subSize}[\text{cur}])}_{\substack{\Downarrow \\ \text{parSum}}}$$

$$\text{upVal} = \text{parSum}$$

$$+ N - \text{subSize}[\text{cur}]$$

$$\text{ans}[\text{cur}] = \text{down}[\text{cur}] + \text{upVal}$$

Let's implement

# *Thank You!*

Reminder: Going to the gym & observing the trainer work out can help you know the right technique, but you'll muscle up only if you lift some weights yourself.

So, PRACTICE, PRACTICE, PRACTICE!