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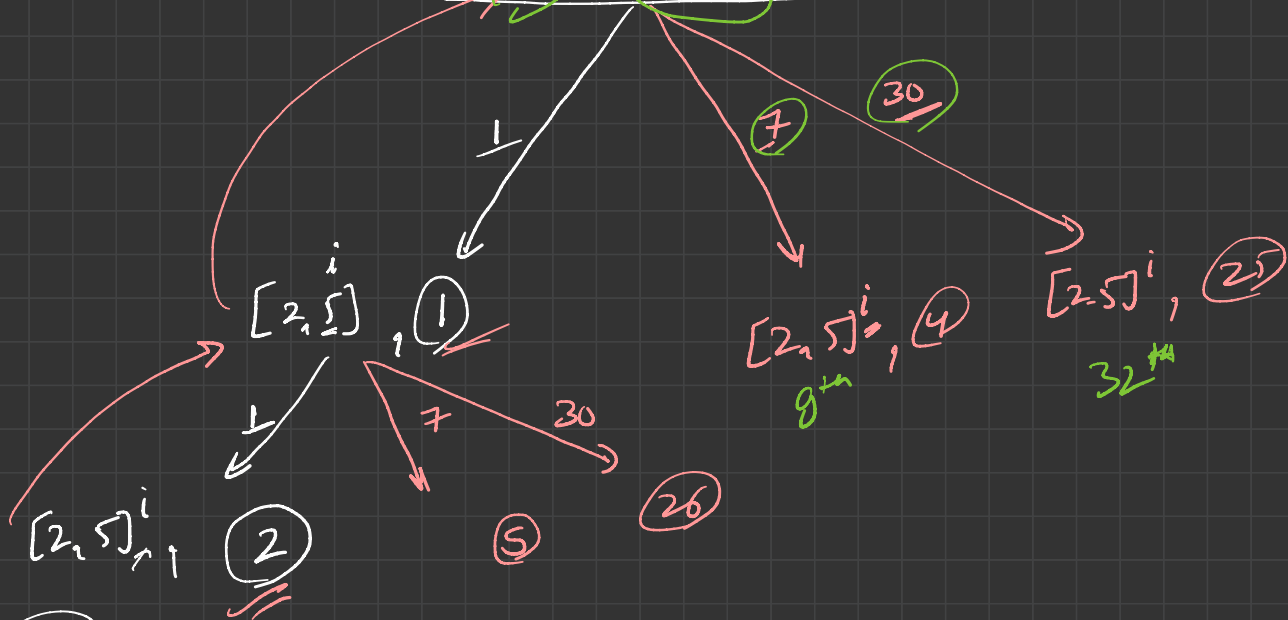
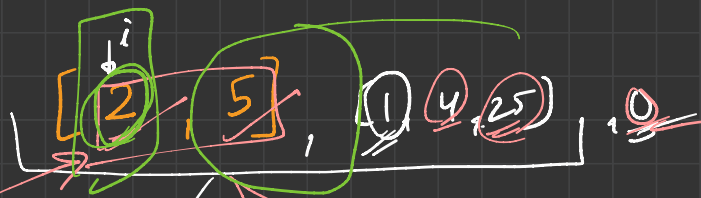
# Dynamic Programming

i/p  $\rightarrow$  days  $\rightarrow \{ \overset{d}{\underset{1}{1}}, \overset{d}{\underset{1}{4}}, \overset{d}{\underset{1}{6}}, \overset{d}{\underset{1}{7}}, \underset{1}{8}, \underset{1}{20} \}$

cost  $\rightarrow [2, 7, 15]$

$6 \times 2 \rightarrow 12$   
 $7 + 2 + 2 \rightarrow 11$   
 $30 \rightarrow 15$

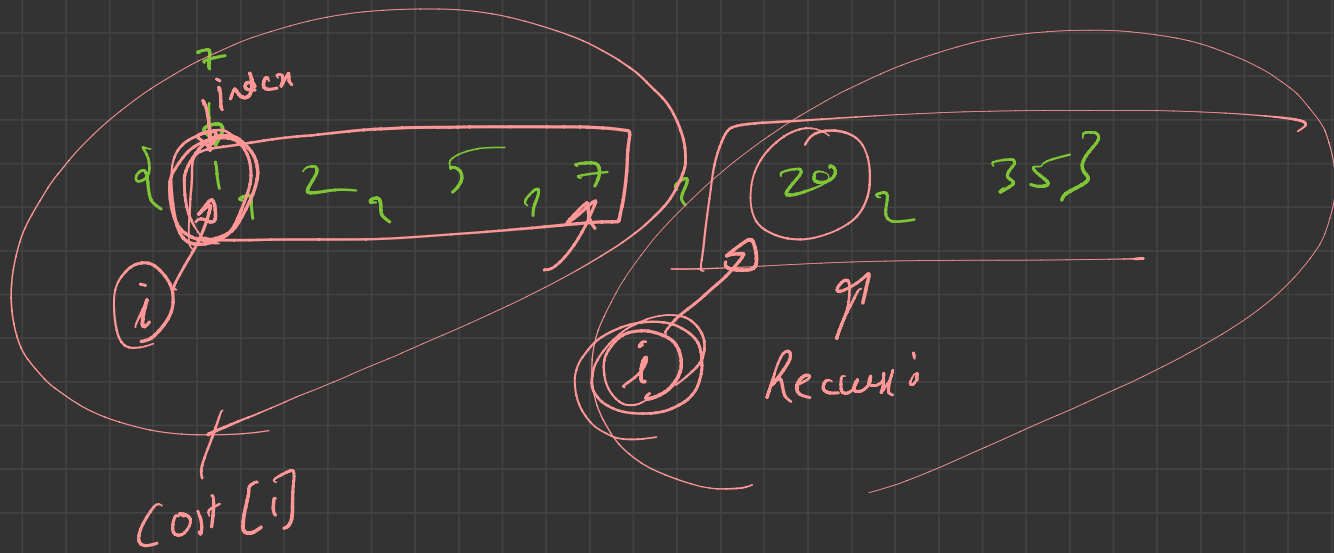
} 11



B.C



min  $\rightarrow$  2



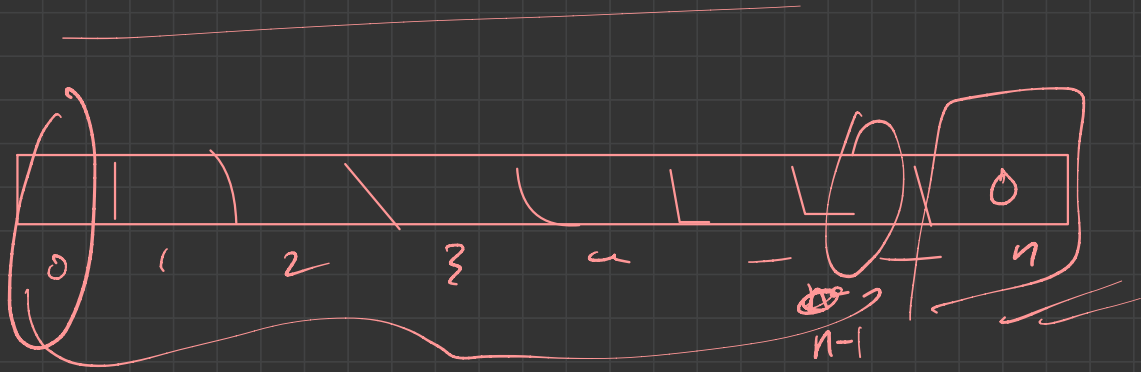
ans  $\rightarrow$   $\text{dp}[0]$

finden  $\rightarrow 0$

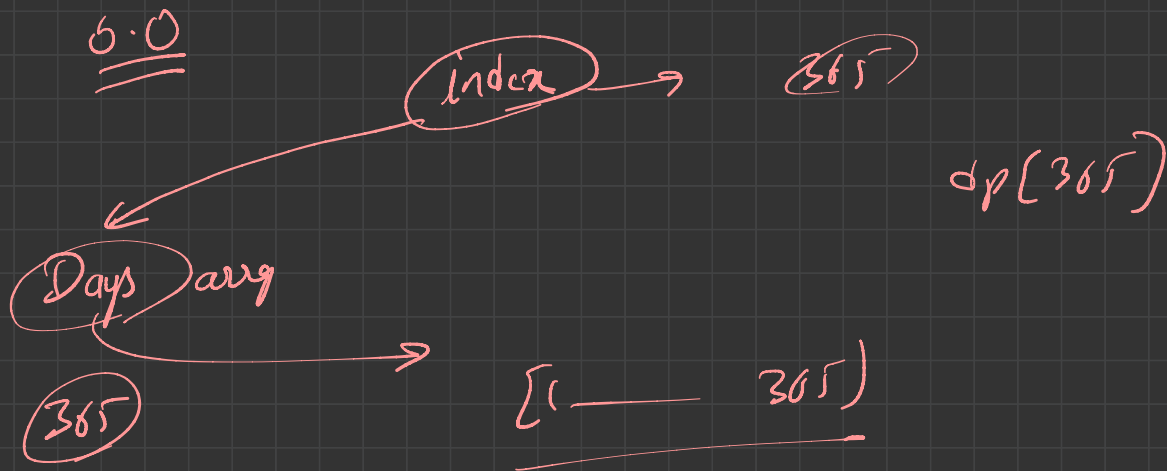
- $+1$
- $+7$
- $+30$

Top-Down

$\text{dp}[n-2]$   
 $\text{dp}[n-1]$   
 $\text{dp}[n] = 0$



for (  $\overset{k}{\downarrow}$   $n-1$  ——— 0 )



dp[5]

O(1)

#4 → Space Optimisation ] → next Episode (20 min)























