

Let's begin at 9:05 PM

L96
Graphs Problem Solving 5

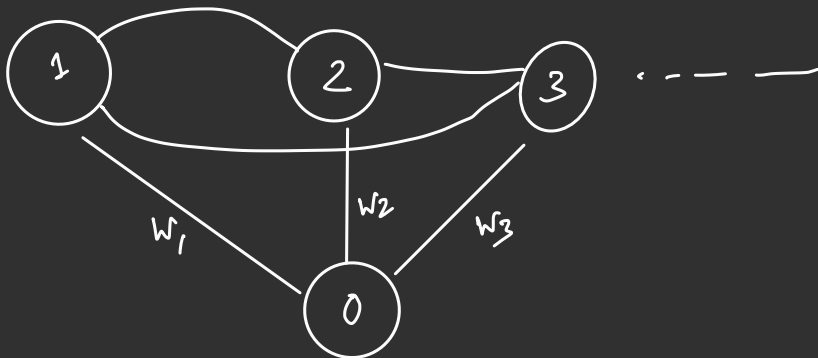
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RECAP

1. Water Optimisation

Intuition / Solution

find cost of
MST for
this graph



Let's Implement

2. Paired Payment

i



$i, 0$

$i, 1$

$i \xrightarrow{w} j$



$i, 0$



$j, 1$

$i, 1$



$j, 0$

Dijkstra from $(1, 0)$



$d[i, 0]$ will be the answer for node i .

Intuition / Solution



\Rightarrow even
path



\vdots



odd

Def $i \xrightarrow{w} j$

$$i, 0 \xrightarrow{0} j, w$$

$$i, 1 \xrightarrow{(1+w)^2} j, 0$$

$$i, 2 \xrightarrow{(2+w)^2} j, 0$$

$$\vdots$$

$$i, c \xrightarrow{(c+w)^2} j, 0$$

$$\vdots$$

$$i, 50 \xrightarrow{(50+w)^2} j, 0$$

Source



1, 0

ans[i]



d[i, 0]

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!