L63

Dynamic Programming: Classical Problems 2

**RECAP** 



Let's dive right into it

WI WZ Edit Distance Problem LearnYard

word2. size - J

Intuition

for 
$$(i+i+4)$$
;  $i=0$ ;  $i+1$   
opt= 1+1  
for  $(j=2)$ ;  $j=0$ ;  $opz=1+1$   
 $opz=1+0$ 

$$a = 0$$

$$b = 1$$

## Solution

$$\begin{bmatrix}
0 = 0 \\
b = 1
\end{bmatrix}$$

$$a = b$$



Let's implement



10 9 E 83 7 10T LIS

= (

2. Longest Increasing Subsequence

3 3222

## Intuition



4 6 10 12 115 31248 10 12 H 5 6 7 8 9

Solution



Let's implement

But, there is a better solution as well.

Mind you, it's not an easy one.



Intuition

Solution



Let's implement



1 more problem?



Number of Palindromic Substrings

## 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!

