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10 Essential DP Patterns

# Dynamic Programming

Start

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## Fibonacci style

Climbing Stairs	Solution	Easy
Fibonacci Number	Solution	Easy
N-th Tribonacci Number	Solution	Easy
Min Cost Climbing Stairs	Solution	Easy
House Robber	Solution	Medium
Delete and Earn	Solution	Medium

## Matrix

Unique Paths	Solution	Medium
Minimum Path Sum	Solution	Medium
Unique Paths II	Solution	Medium
Triangle	Solution	Medium
Minimum Falling Path Sum	Solution	Medium
	Solution	

## Maximal Square

Medium

### On Strings

 Longest Palindromic Substring

 Solution

Medium

 Word Break

 Solution

Medium

 Longest Palindromic Subsequence

 Solution

Medium

 Edit Distance

 Solution

Medium

 Minimum ASCII Delete Sum for Two Strings

 Solution

Medium

 Distinct Subsequences

 Solution

Hard

### Longest Increasing Subsequence

 Longest Increasing Subsequence

 Solution

Medium

 Number of Longest Increasing Subsequence

 Solution

Medium

 Maximum Length of Pair Chain

 Solution

Medium

 Longest Arithmetic Subsequence of Given Difference

 Solution

Medium

 Longest Arithmetic Subsequence

 Solution

Medium

 Russian Doll Envelopes

 Solution

Hard

 Find the Longest Valid Obstacle Course at Each Position

 Solution

Hard

### Longest Common Subsequence

 Longest Common Subsequence

 Solution

Medium

 Uncrossed Lines

 Solution





Medium

 Minimum Insertion Steps to Make a String Palindrome


 Solution

Hard

## Best Time to Buy & Sell Stock / State Machine

<input checked="" type="checkbox"/> Best Time to Buy and Sell Stock with Cooldown	 Solution	Medium
<input checked="" type="checkbox"/> Best Time to Buy and Sell Stock with Transaction Fee	 Solution	Medium
<input checked="" type="checkbox"/> Best Time to Buy and Sell Stock III	 Solution	Hard
<input checked="" type="checkbox"/> Best Time to Buy and Sell Stock IV	 Solution	Hard





## On Trees










<input type="checkbox"/> Unique Binary Search Trees	 Solution	Medium
<input type="checkbox"/> Unique Binary Search Trees II	 Solution	Medium
<input type="checkbox"/> House Robber III	 Solution	Medium
<input checked="" type="checkbox"/> Binary Tree Maximum Path Sum	 Solution	Hard

## Knapsack

<input checked="" type="checkbox"/> Perfect Squares	 Solution	Medium
<input checked="" type="checkbox"/> Coin Change II	 Solution	Medium
<input checked="" type="checkbox"/> Combination Sum IV	 Solution	Medium
<input checked="" type="checkbox"/> Ones and Zeroes	 Solution	Medium

## General 1D

<input checked="" type="checkbox"/> Solving Questions With Brainpower	 Solution	Medium
<input checked="" type="checkbox"/> Coin Change	 Solution	Medium
<input checked="" type="checkbox"/> Count Ways To Build Good Strings	 Solution	Medium
<input checked="" type="checkbox"/> Decode Ways	 Solution	Medium

<input checked="" type="radio"/> Minimum Cost For Tickets	 Solution	Medium
<input type="radio"/> Domino and Tromino Tiling	 Solution	Medium
 General Multidimensional		
<input type="radio"/> Paint House 	 Solution	Medium
<input type="radio"/> Paint House II 	 Solution	Hard
<input type="radio"/> Count Vowels Permutation	 Solution	Hard
<input type="radio"/> Maximum Value of K Coins From Piles	 Solution	Hard