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 10 Essential DP Patterns [Learn More](#)

Dynamic Programming

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Fibonacci style

<input type="radio"/> Climbing Stairs	Solution	Easy
<input checked="" type="radio"/> Fibonacci Number	Solution	Easy
<input type="radio"/> N-th Tribonacci Number	Solution	Easy
<input type="radio"/> Min Cost Climbing Stairs	Solution	Easy
<input type="radio"/> House Robber	Solution	Medium
<input type="radio"/> Delete and Earn	Solution	Medium

Matrix

<input checked="" type="radio"/> Unique Paths	Solution	Medium
<input type="radio"/> Minimum Path Sum	Solution	Medium
<input checked="" type="radio"/> Unique Paths II	Solution	Medium
<input type="radio"/> Triangle	Solution	Medium

☐ Minimum Falling Path Sum  Solution Medium

☐ Maximal Square  Solution 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

☐ Best Time to Buy and Sell Stock with Cooldown Solution Medium☐ Best Time to Buy and Sell Stock with Transaction Fee Solution Medium☐ Best Time to Buy and Sell Stock III Solution Hard☐ Best Time to Buy and Sell Stock IV Solution Hard







On Trees

☐ Unique Binary Search Trees Solution Medium☐ Unique Binary Search Trees II Solution Medium☐ House Robber III Solution Medium☐ Binary Tree Maximum Path Sum Solution Hard








Knapsack

☐ Perfect Squares Solution Medium☐ Coin Change II Solution Medium☐ Combination Sum IV Solution Medium☐ Ones and Zeroes Solution Medium

General 1D

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

