10 Essential DP Patterns

Dynamic Programming

▶ Start

Fibonacci style

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

Matrix

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

On Strings

✓ Longest Palindromic Substring	Medium
○ Word Break	Medium
○ Longest Palindromic Subsequence	Medium
○ Edit Distance	Hard
○ Minimum ASCII Delete Sum for Two Strings	Medium
○ Distinct Subsequences	Hard

Longest Increasing Subsequence

○ Longest Increasing Subsequence	Medium
○ Number of Longest Increasing Subsequence	Medium
○ Maximum Length of Pair Chain	Medium
○ Longest Arithmetic Subsequence of Given Difference	Medium
○ Longest Arithmetic Subsequence	Medium
○ Russian Doll Envelopes	Hard
○ Find the Longest Valid Obstacle Course at Each Position	Hard

Longest Common Subsequence

○ Longest Common Subsequence	Medium
○ Uncrossed Lines	Medium

☰   ⊋   🔔

Best Time to Buy & Sell Stock / State Machine

○ Best Time to Buy and Sell Stock with Cooldown   Medium

○ Best Time to Buy and Sell Stock with Transaction Fee   Medium

○ Best Time to Buy and Sell Stock III   Hard

○ Best Time to Buy and Sell Stock IV   Hard

On Trees

○ Unique Binary Search Trees   Medium

○ Unique Binary Search Trees II   Medium

○ House Robber III   Medium

○ Binary Tree Maximum Path Sum   Hard

Knapsack

○ Perfect Squares   Medium

○ Coin Change II   Medium

○ Combination Sum IV   Medium

○ Ones and Zeroes   Medium

General 1D

○ Solving Questions With Brainpower   Medium

○ Count Ways To Build Good Strings   Medium

Ⓓ Decode Ways   Medium

○ Minimum Cost For Tickets   Medium

○ Domino and Tromino Tiling   Medium

🔒 General Multidimensional   [Subscribe to unlock](#)

Help Center | Jobs | Bug Bounty | Assessment | Students | Terms | Privacy Policy

🇺🇸 United States