

DP FOR BEGINNERS

[Problems | Patterns]



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Longest Increasing Subsequence variants:

- <https://leetcode.com/problems/longest-increasing-subsequence/>
- <https://leetcode.com/problems/largest-divisible-subset/>
- <https://leetcode.com/problems/russian-doll-envelopes/>
- <https://leetcode.com/problems/maximum-length-of-pair-chain/>
- <https://leetcode.com/problems/number-of-longest-increasing-subsequence/>
- <https://leetcode.com/problems/delete-and-earn/>
- <https://leetcode.com/problems/longest-string-chain/>

Partition Subset:

- <https://leetcode.com/problems/partition-equal-subset-sum/>
- <https://leetcode.com/problems/last-stone-weight-ii/>

BitMasking:

- <https://leetcode.com/problems/partition-to-k-equal-sum-subsets/>

Longest Common Subsequence Variant:

- <https://leetcode.com/problems/longest-common-subsequence/>
- <https://leetcode.com/problems/edit-distance/>
- <https://leetcode.com/problems/distinct-subsequences/>
- <https://leetcode.com/problems/minimum-ascii-delete-sum-for-two-strings/>

Palindrome:

- <https://leetcode.com/problems/palindrome-partitioning-ii/>
- <https://leetcode.com/problems/palindromic-substrings/>

Coin Change variant:

- <https://leetcode.com/problems/coin-change/>
- <https://leetcode.com/problems/coin-change-2/>
- <https://leetcode.com/problems/combination-sum-iv/>
- <https://leetcode.com/problems/perfect-squares/>
- <https://leetcode.com/problems/minimum-cost-for-tickets/>

Matrix multiplication variant:

- <https://leetcode.com/problems/minimum-score-triangulation-of-polygon/>
- <https://leetcode.com/problems/minimum-cost-tree-from-leaf-values/>
- <https://leetcode.com/problems/burst-balloons/>

Matrix/2D Array:

- <https://leetcode.com/problems/matrix-block-sum/>
- <https://leetcode.com/problems/range-sum-query-2d-immutable/>
- <https://leetcode.com/problems/dungeon-game/>
- <https://leetcode.com/problems/triangle/>
- <https://leetcode.com/problems/maximal-square/>
- <https://leetcode.com/problems/minimum-falling-path-sum/>

Hash + DP:

- <https://leetcode.com/problems/target-sum/>
- <https://leetcode.com/problems/longest-arithmetic-sequence/>
- <https://leetcode.com/problems/longest-arithmetic-subsequence-of-given-difference/>
- <https://leetcode.com/problems/maximum-product-of-splitted-binary-tree/>

State machine:

- <https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>
- <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/>
- <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/>
- <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iv/>
- <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-cooldown/>
- <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-transaction-fee/>

Depth First Search + DP:

- <https://leetcode.com/problems/out-of-boundary-paths/>
- <https://leetcode.com/problems/knight-probability-in-chessboard/>

Minimax DP:

- <https://leetcode.com/problems/predict-the-winner/>
- <https://leetcode.com/problems/stone-game/>

Misc:

- <https://leetcode.com/problems/greatest-sum-divisible-by-three/>
- <https://leetcode.com/problems/decode-ways/>
- <https://leetcode.com/problems/perfect-squares/>
- <https://leetcode.com/problems/count-numbers-with-unique-digits/>
- <https://leetcode.com/problems/longest-turbulent-subarray/>
- <https://leetcode.com/problems/number-of-dice-rolls-with-target-sum/>

Full problem list: <https://leetcode.com/list/x1k8lxi5>

SOURCE- LEETCODE



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