

TOP DP PROBLEM ON LEETCODE [PART-2]



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Part 1: [Link](#)

Classic DP Problem

Cadane's Algorithm

<https://leetcode.com/problems/maximum-subarray/>
<https://leetcode.com/problems/maximum-product-subarray/>
<https://leetcode.com/problems/bitwise-ors-of-subarrays/>
<https://leetcode.com/problems/longest-turbulent-subarray/>
<https://leetcode.com/problems/maximum-subarray-sum-with-one-deletion/>
<https://leetcode.com/problems/k-concatenation-maximum-sum/>
<https://leetcode.com/problems/largest-divisible-subset/>
<https://leetcode.com/problems/length-of-longest-fibonacci-subsequence/>

LCS

<https://leetcode.com/problems/longest-palindromic-substring/>
<https://leetcode.com/problems/longest-palindromic-subsequence/>
<https://leetcode.com/problems/maximum-length-of-repeated-subarray/>
<https://leetcode.com/problems/longest-common-subsequence/>
<https://leetcode.com/problems/regular-expression-matching/>
<https://leetcode.com/problems/wildcard-matching/>
<https://leetcode.com/problems/edit-distance/>
<https://leetcode.com/problems/interleaving-string/>
<https://leetcode.com/problems/shortest-common-supersequence/>
<https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string-palindrome/>
<https://leetcode.com/problems/max-dot-product-of-two-subsequences/>

LIS

<https://leetcode.com/problems/longest-increasing-subsequence/>
<https://leetcode.com/problems/number-of-longest-increasing-subsequence/>
<https://leetcode.com/problems/russian-doll-envelopes/>
<https://leetcode.com/problems/delete-columns-to-make-sorted-iii/>
<https://leetcode.com/problems/minimum-number-of-removals-to-make-mountain-array/>
<https://leetcode.com/problems/maximum-height-by-stacking-cuboids/>
<https://leetcode.com/problems/make-array-strictly-increasing/>



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2D Grid Traversal

<https://leetcode.com/problems/unique-paths/>
<https://leetcode.com/problems/unique-paths-ii/>
<https://leetcode.com/problems/minimum-path-sum/>
<https://leetcode.com/problems/maximum-non-negative-product-in-a-matrix/>
<https://leetcode.com/problems/where-will-the-ball-fall/>
<https://leetcode.com/problems/dungeon-game/>
<https://leetcode.com/problems/cherry-pickup/>
<https://leetcode.com/problems/number-of-paths-with-max-score/>
<https://leetcode.com/problems/cherry-pickup-ii/>
<https://leetcode.com/problems/kth-smallest-instructions/>

Cumulative Sum

<https://leetcode.com/problems/range-sum-query-immutable/>
<https://leetcode.com/problems/maximal-square/>
<https://leetcode.com/problems/range-sum-query-2d-immutable/>
<https://leetcode.com/problems/largest-plus-sign/>
<https://leetcode.com/problems/push-dominoes/>
<https://leetcode.com/problems/largest-1-bordered-square/>
<https://leetcode.com/problems/count-square-submatrices-with-all-ones/>
<https://leetcode.com/problems/matrix-block-sum/>
<https://leetcode.com/problems/maximum-points-you-can-obtain-from-cards/>
<https://leetcode.com/problems/count-submatrices-with-all-ones/>
<https://leetcode.com/problems/ways-to-make-a-fair-array/>
<https://leetcode.com/problems/maximal-rectangle/>
<https://leetcode.com/problems/max-sum-of-rectangle-no-larger-than-k/>
<https://leetcode.com/problems/super-washing-machines/>
<https://leetcode.com/problems/maximum-sum-of-3-non-overlapping-subarrays/>
<https://leetcode.com/problems/number-of-submatrices-that-sum-to-target/>
<https://leetcode.com/problems/get-the-maximum-score/>

Hashmap (SubArray)

<https://leetcode.com/problems/continuous-subarray-sum/>
<https://leetcode.com/problems/find-two-non-overlapping-sub-arrays-each-with-target-sum/>
<https://leetcode.com/problems/maximum-number-of-non-overlapping-subarrays-with-sum-equals-target/>



DP on Trees

<https://leetcode.com/problems/unique-binary-search-trees-ii/>
<https://leetcode.com/problems/house-robber-iii/>
<https://leetcode.com/problems/maximum-product-of-splitted-binary-tree/>
<https://leetcode.com/problems/linked-list-in-binary-tree/>
<https://leetcode.com/problems/longest-zigzag-path-in-a-binary-tree/>
<https://leetcode.com/problems/binary-tree-cameras/>
<https://leetcode.com/problems/maximum-sum-bst-in-binary-tree/>
<https://leetcode.com/problems/number-of-ways-to-reorder-array-to-get-same-bst/>

String DP

<https://leetcode.com/problems/is-subsequence/>
<https://leetcode.com/problems/palindrome-partitioning/>
<https://leetcode.com/problems/palindrome-partitioning-ii/>
<https://leetcode.com/problems/word-break/>
<https://leetcode.com/problems/unique-substrings-in-wraparound-string/>
<https://leetcode.com/problems/minimum-ascii-delete-sum-for-two-strings/>
<https://leetcode.com/problems/longest-string-chain/>
<https://leetcode.com/problems/longest-happy-string/>
<https://leetcode.com/problems/longest-valid-parentheses/>
<https://leetcode.com/problems/distinct-subsequences/>
<https://leetcode.com/problems/word-break-ii/>
<https://leetcode.com/problems/count-the-repetitions/>
<https://leetcode.com/problems/concatenated-words/>
<https://leetcode.com/problems/count-different-palindromic-subsequences/>
<https://leetcode.com/problems/distinct-subsequences-ii/>
<https://leetcode.com/problems/longest-chunked-palindrome-decomposition/>
<https://leetcode.com/problems/palindrome-partitioning-iii/>
<https://leetcode.com/problems/find-all-good-strings/>
<https://leetcode.com/problems/string-compression-ii/>
<https://leetcode.com/problems/number-of-ways-to-form-a-target-string-given-a-dictionary/>

Memoization

<https://leetcode.com/problems/minimum-jumps-to-reach-home/>
<https://leetcode.com/problems/scramble-string/>
<https://leetcode.com/problems/tiling-a-rectangle-with-the-fewest-squares/>
<https://leetcode.com/problems/number-of-ways-to-stay-in-the-same-place-after-some-steps/>
<https://leetcode.com/problems/jump-game-v/>
<https://leetcode.com/problems/minimum-number-of-days-to-eat-n-oranges/>



Math

<https://leetcode.com/problems/ugly-number-ii/>

<https://leetcode.com/problems/count-sorted-vowel-strings/>

<https://leetcode.com/problems/race-car/>

<https://leetcode.com/problems/super-egg-drop/>

<https://leetcode.com/problems/least-operators-to-express-number/>

<https://leetcode.com/problems/largest-multiple-of-three/>

<https://leetcode.com/problems/minimum-one-bit-operations-to-make-integers-zero/>

Feel Free to connect with me –

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