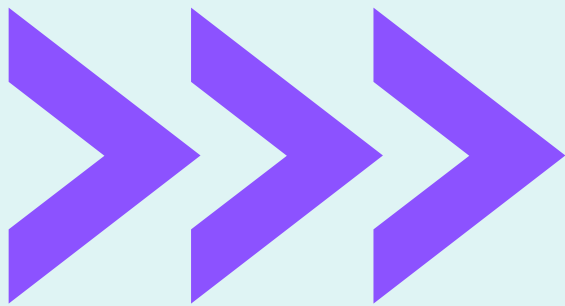


DP PROBLEMS LIST

TOPIC WISE QUESTIONS



0/1 KNAPSACK PROBLEMS

- Subset sum
- Equal sum partition
- Count of subsets sum with a given sum
- Minimum subset sum difference
- Count the number of subset with a given difference
- Target sum

UNBOUNDED KNAPSACK

- Integer Break
- Coin Change
- Coin Change 2
- Combination Sum IV
- Perfect Squares

LONGEST COMMON SUBSEQUENCE

- Longest common substring
- Shortest common supersequence
- Minimum number of insertion and deletion to convert A to B
- Longest repeating subsequence
- Length of longest subsequence of A which is substring of B
- Subsequence pattern matching
- Count how many times A appears as subsequence in B
- Longest palindromic subsequence
- Count of palindromic substrings
- Minimum number of deletion in a string to make it palindrome
- Minimum number of insertion in a string to make it palindrome
- Uncrossed Lines

MATRIX CHAIN MULTIPLICATION

- Burst Balloons
- Evaluate expression to true / boolean parenthesization
- Minimum or maximum value of a expression
- Palindrome partitioning
- Scramble string
- Super Egg Drop

FIBONACCI

- Fibonacci number
- Climbing stairs
- Minimum jumps to reach the end
- Friends pairing problem
- Maximum subsequence sum such that no three are consecutive

LONGEST INCREASING SUBSEQUENCE

- Print longest increasing subsequence
- Number of longest increasing subsequences
- Longest non-decreasing subsequence
- Find the longest increasing subsequence in circular manner
- Longest bitonic subsequence
- Longest arithmetic subsequence
- Maximum sum increasing subsequence

DP ON TREES

- Diameter of Binary Tree
- Binary Tree Maximum Path Sum
- Unique Binary Search Trees II
- House Robber III

DP ON GRIDS

- Unique Paths
- Unique Paths II
- Minimum Path Sum
- Dungeon Game
- Cherry Pickup



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Manas Dixit