DYNAMIC PROGRAMMING:-

Introduction to Dynamic Programming

Longest Common Subsequence | Introduction & LCS Length

Longest Common Subsequence | Space optimized version

Longest Common Subsequence of K-sequences

Longest Common Subsequence | Finding all LCS

Longest Common Substring problem

Longest Palindromic Subsequence using Dynamic Programming

Longest Repeated Subsequence problem

Implement Diff Utility

Shortest Common Supersequence | Introduction & SCS Length

Shortest Common Supersequence | Finding all SCS

Shortest Common Supersequence | Using LCS

Longest Increasing Subsequence using Dynamic Programming

Longest Bitonic Subsequence

Increasing Subsequence with Maximum Sum

The Levenshtein distance (Edit distance) problem

Find size of largest square sub-matrix of 1's present in given binary matrix

Matrix Chain Multiplication

Find the minimum cost to reach last cell of the matrix from its first cell

Find longest sequence formed by adjacent numbers in the matrix

Count number of paths in a matrix with given cost to reach destination cell

0-1 Knapsack problem

Maximize value of the expression

Partition problem

Subset sum problem

Minimum Sum Partition problem

By-Anushka Gupta

Find all N-digit binary strings without any consecutive 1's

Rod Cutting

Maximum Product Rod Cutting

Coin change-making problem (unlimited supply of coins)

Coin Change Problem – Find total number of ways to get the denomination of coins

Total possible solutions to linear equation of k variables

Longest alternating subsequence

Count number of times a pattern appears in given string as a subsequence

Collect maximum points in a matrix by satisfying given constraints

Count total possible combinations of N-digit numbers in a mobile keypad

Find optimal cost to construct binary search tree

Word Break Problem

Word Break Problem | Using Trie Data Structure

Determine Minimal Adjustment Cost of an Array

Check if a string is K-Palindrome or not

Wildcard Pattern Matching

Find probability that a person is alive after taking N steps on the island

Calculate sum of all elements in a sub-matrix in constant time

Find maximum sum K x K sub-matrix in a given M x N matrix

Find maximum sum submatrix present in a given matrix

Find maximum sum of subsequence with no adjacent elements

Maximum subarray problem (Kadane's algorithm)

Single-Source Shortest Paths – Bellman Ford Algorithm

All-Pairs Shortest Paths – Floyd Warshall Algorithm

Longest Decreasing Subsequence Problem

Pots of Gold Game using Dynamic Programming

Find minimum cuts needed for palindromic partition of a string

Maximum Length Snake Sequence

3 Partition Problem

Calculate size of the largest plus of 1's in binary matrix

Check if given string is interleaving of two other given strings

Longest Increasing Subsequence using LCS

Determine negative-weight cycle in a graph

By-Anushka Gupta