**DYNAMIC PROGRAMMING**

**Overlapping Subproblems Property,**

**Optimal Substructure Property,**

1. **Longest Increasing Subsequence LIS,**
2. **Longest Common Subsequence LCS,**
3. **Edit Distance,**
4. **Min Cost Path,**
5. **Coin Change,**
6. **Matrix Chain Multiplication,**
7. **Binomial Coefficient,**
8. **0-1 Knapsack Problem,**
9. **Egg Dropping Puzzle,**
10. **Longest Palindromic Subsequence,**
11. **Cutting a Rod,**
12. **Maximum Sum Increasing Subsequence,**
13. **Longest Bitonic Subsequence,**
14. **Floyd Warshall Algorithm,**
15. **Palindrome Partitioning,**
16. **Partition problem,**
17. **Word Wrap Problem,**
18. **Maximum Length Chain of Pairs,**
19. **Variations of LIS,**
20. **Box Stacking Problem,**
21. **Program for Fibonacci numbers,**
22. **Minimum number of jumps to reach end,**
23. **Maximum size square sub-matrix with all 1s,**
24. **Ugly Numbers,**
25. **Largest Sum Contiguous Subarray,**
26. **Longest Palindromic Substring,**
27. **Bellman–Ford Algorithm for Shortest Paths,**
28. **Optimal Binary Search Tree,**
29. **Largest Independent Set Problem,**
30. **Subset Sum Problem,**
31. **Maximum sum rectangle in a 2D matrix,**
32. **Count number of binary strings without consecutive 1s?**
33. **Boolean Parenthesization Problem,**
34. **Count ways to reach the Nth stair,**
35. **Minimum Cost Polygon Triangulation,**
36. **Mobile Numeric Keypad Problem,**