

# Dynamic Programming Sheet

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(Suggested Read: Optimal Substructures, Overlapping Sub Problems  
Tabulation/Memoization)

## 1-D DP (Basics)

Problem	Difficulty	Done(Y/N)
<a href="#">Fibonacci Series Problem</a>	Easy	N
<a href="#">Climbing Stairs Problem</a>	Easy	N
<a href="#">Friends Pairing Problem</a>	Easy	N
<a href="#">Catalan Number Problem</a>	Medium	N
<a href="#">House Robber</a>	Medium	N

*(1-D Problems will help you understand how to make recurrence relations and then you can use a DP approach to solve it)*

## 2-D DP and more

Problem	Difficulty	Done(Y/N)
<a href="#">0-1 Knapsack</a>	Medium	N
<a href="#">Subset Sum Problem</a>	Medium	N
<a href="#">Coin Change GFG</a>	Medium	N

<a href="#">Coin Change LeetCode</a>	Medium	N
<a href="#">Edit Distance</a>	Medium-H	N
<a href="#">Minimum Coins</a>	Easy	N
<a href="#">Rod Cutting</a>	E-Medium	N
<a href="#">Minimum Insertion/Deletion</a>	Easy	N
<a href="#">Partition Equal Subset Sum</a>	Medium	N
<a href="#">Maximum path sum in Matrix</a>	Medium	N
<a href="#">Minimum path sum</a>	Medium	N
<a href="#">Dice Throw</a>	Medium	N
<a href="#">Unique Paths</a>	Medium	N
<a href="#">Minimum Sum Partition</a>	Hard	N
<a href="#">Minimum Jumps</a>	Medium	N
<a href="#">Target Sum</a>	Medium	N
<a href="#">Triangle</a>	Medium	N
<a href="#">Longest Common Subsequence (LCS)</a>	Medium	N
<a href="#">Longest Increasing Subsequence (LIS)</a>	Medium	N
<a href="#">Count Subsequences</a>	Medium	N
<a href="#">Maximum Sum Increasing Subsequence</a>	Medium	N
<a href="#">Longest Palindromic</a>	Medium	N

<a href="#">Subsequence</a>		
<a href="#">Unique Binary Trees</a>	Medium	N
<a href="#">Longest Common Substring</a>	Medium	N
<a href="#">Dropping Egg</a> (Famous Puzzle)	Hard	N
<a href="#">Box Stacking</a>	Medium	N
<a href="#">Count Palindromic Subsequences</a>	Medium	N
<a href="#">Shortest Common Supersequence</a>	Medium	N
<a href="#">Buy and Sell Stocks</a>	Easy	N
<a href="#">Buy and Sell Stocks GFG</a>	Hard	N
<a href="#">Longest Bitonic Subsequence</a>	Medium	N
<a href="#">Minimum Jumps</a>	Medium	N
<a href="#">Wildcard Matching</a>	Hard	N
<a href="#">Minimum Cost to Cut a Stick</a>	Hard	N
<a href="#">Longest String Chain</a>	Medium	N
<a href="#">Maximal Rectangle</a>	Hard	N
<a href="#">Matrix Multiplication</a>	Hard	N
<a href="#">Largest Divisible Subset</a>	Medium	N
<a href="#">Count Square</a>	Medium	N

