How To Master Dynamic Programming?

- Dynamic Programming
  - Optimization Over Recursion
- PreRequisites
  - Recursion
  - Sorting Algorithms - Merge Sort, Quick Sort etc.
  - Linked List
  - Trees
- Way To Practice Dynamic Programming
  - Recursion
  - Memoization
  - Iterative Solutions
- Content Flow
  - Basic Problems
    - Fibonacci Problem
    - Staircase Problem
      - https://www.codingninjas.com/codestudio/problems/count-ways-to-reach-nth-stairs_798650
  - 1d Array Problems
    - Longest Increasing Subsequence
      - https://www.codingninjas.com/codestudio/problems/longest-increasing-subsequence_630459

- Minimum Jumps To Reach End
  - https://www.codingninjas.com/codestudio/problems/minimum-jumps_1062693
- Loot Houses
  - https://www.codingninjas.com/codestudio/problems/loot-houses_630510
- 2d Array Problems
  - Min Cost path
    - https://www.codingninjas.com/codestudio/problems/minimum-cost-path_630515
  - 0-1 Knapsack
    - https://www.codingninjas.com/codestudio/problems/0-1-knapsack_1072980
- Strings
  - Longest Common Subsequence
    - https://www.codingninjas.com/codestudio/problems/longest-common-subsequence_624879
  - Edit Distance
    - https://www.codingninjas.com/codestudio/problems/edit-distance_630420
  - Find if a string is interleaved of two other strings
    - https://www.codingninjas.com/codestudio/problems/interleaving-two-strings_1062567
- Counting Problems
  - Coin Change
    - https://www.codingninjas.com/codestudio/problems/ways-to-make-coin-change_630471
  - Count Balanced Binary Trees Of Height h

- https://www.codingninjas.com/codestudio/problems/number-of-balanced-binary-trees_1062690
- Breaking And Partition Problems
  - Palindrome Partitioning
    - https://www.codingninjas.com/codestudio/problems/palindrome-partitioning_873266
  - Partition Equal Subset Sum
    - https://www.codingninjas.com/codestudio/problems/partition-equal-subset-sum_892980
- Mathematical Problems
  - Matrix Chain Multiplication
    - https://www.codingninjas.com/codestudio/problems/matrix-chain-multiplication_1062686
  - Best Time To Buy And Sell Stock
    - https://www.codingninjas.com/codestudio/problems/best-time-to-buy-and-sell-stock_1080698
- Standard problems
  - Rod Cutting
    - https://www.codingninjas.com/codestudio/problems/rod-cutting-problem_800284
  - Count Palindromic Subsequences
    - https://www.codingninjas.com/codestudio/problems/count-palindromic-subsequences_1062696
  - Longest Palindromic Substring
    - https://www.codingninjas.com/codestudio/problems/longest-palindromic-substring_758900

- Optimal BST
  - https://www.codingninjas.com/codestudio/problems/optimal-bst_1062671
- Distinct Subsequences
  - https://www.codingninjas.com/codestudio/problems/distinct-subsequences_799558
- Dp With Trees - CP
- Dp With Bitmasking - CP