



# CODING BLOCKS

Code Your Way To Success

##Dynamic Programming

Longest Increasing Subsequence - InterviewBit

<https://www.interviewbit.com/problems/longest-increasing-subsequence/>  
(<https://www.interviewbit.com/problems/longest-increasing-subsequence/>)

Max Rectangle in Binary Matrix - InterviewBit

<https://www.interviewbit.com/problems/max-rectangle-in-binary-matrix/>  
(<https://www.interviewbit.com/problems/max-rectangle-in-binary-matrix/>)

Distinct Subsequences - InterviewBit

<https://www.interviewbit.com/problems/distinct-subsequences/>  
(<https://www.interviewbit.com/problems/distinct-subsequences/>)

Unique Paths in a Grid - InterviewBit

<https://www.interviewbit.com/problems/unique-paths-in-a-grid/>  
(<https://www.interviewbit.com/problems/unique-paths-in-a-grid/>)

Max Product Subarray - InterviewBit

<https://www.interviewbit.com/problems/max-product-subarray/>  
(<https://www.interviewbit.com/problems/max-product-subarray/>)

Best Time to Buy and Sell Stocks II - InterviewBit

<https://www.interviewbit.com/problems/best-time-to-buy-and-sell-stocks-ii/>  
(<https://www.interviewbit.com/problems/best-time-to-buy-and-sell-stocks-ii/>)

Best Time to Buy and Sell Stocks III - InterviewBit

<https://www.interviewbit.com/problems/best-time-to-buy-and-sell-stocks-iii/>  
(<https://www.interviewbit.com/problems/best-time-to-buy-and-sell-stocks-iii/>)

Scramble String - InterviewBit

<https://www.interviewbit.com/problems/scramble-string/>  
(<https://www.interviewbit.com/problems/scramble-string/>)

Best Time to Buy and Sell Stocks I - InterviewBit

<https://www.interviewbit.com/problems/best-time-to-buy-and-sell-stocks-i/>  
(<https://www.interviewbit.com/problems/best-time-to-buy-and-sell-stocks-i/>)

Max Sum Path in Binary Tree - InterviewBit

<https://www.interviewbit.com/problems/max-sum-path-in-binary-tree/>  
(<https://www.interviewbit.com/problems/max-sum-path-in-binary-tree/>)

Regular Expression Match - InterviewBit

<https://www.interviewbit.com/problems/regular-expression-match/>  
(<https://www.interviewbit.com/problems/regular-expression-match/>)

Dungeon Princess - InterviewBit

<https://www.interviewbit.com/problems/dungeon-princess/>  
(<https://www.interviewbit.com/problems/dungeon-princess/>)

Palindrome Partitioning II - InterviewBit

<https://www.interviewbit.com/problems/palindrome-partitioning-ii/>  
(<https://www.interviewbit.com/problems/palindrome-partitioning-ii/>)

Min Sum Path in Matrix - InterviewBit

<https://www.interviewbit.com/problems/min-sum-path-in-matrix/>  
(<https://www.interviewbit.com/problems/min-sum-path-in-matrix/>)

Edit Distance - InterviewBit

<https://www.interviewbit.com/problems/edit-distance/>  
(<https://www.interviewbit.com/problems/edit-distance/>)

Unique Binary Search Trees II - InterviewBit

<https://www.interviewbit.com/problems/unique-binary-search-trees-ii/>  
(<https://www.interviewbit.com/problems/unique-binary-search-trees-ii/>)

Word Break - InterviewBit

<https://www.interviewbit.com/problems/word-break/>  
(<https://www.interviewbit.com/problems/word-break/>)

Regular Expression II - InterviewBit

<https://www.interviewbit.com/problems/regular-expression-ii/>  
(<https://www.interviewbit.com/problems/regular-expression-ii/>)

Min Sum Path in Triangle - InterviewBit

<https://www.interviewbit.com/problems/min-sum-path-in-triangle/>  
(<https://www.interviewbit.com/problems/min-sum-path-in-triangle/>)

Jump Game Array - InterviewBit

<https://www.interviewbit.com/problems/jump-game-array/>  
(<https://www.interviewbit.com/problems/jump-game-array/>)

Interleaving Strings - InterviewBit

<https://www.interviewbit.com/problems/interleaving-strings/>  
(<https://www.interviewbit.com/problems/interleaving-strings/>)

Word Break II - InterviewBit

<https://www.interviewbit.com/problems/word-break-ii/>  
(<https://www.interviewbit.com/problems/word-break-ii/>)

Longest valid Parentheses - InterviewBit

<https://www.interviewbit.com/problems/longest-valid-parentheses/>  
(<https://www.interviewbit.com/problems/longest-valid-parentheses/>)

Stairs - InterviewBit

<https://www.interviewbit.com/problems/stairs/> (<https://www.interviewbit.com/problems/stairs/>)

Max Sum Without Adjacent Elements - InterviewBit

<https://www.interviewbit.com/problems/max-sum-without-adjacent-elements/>  
(<https://www.interviewbit.com/problems/max-sum-without-adjacent-elements/>)

Repeating Sub-Sequence - InterviewBit

<https://www.interviewbit.com/problems/repeating-subsequence/>  
(<https://www.interviewbit.com/problems/repeating-subsequence/>)

Evaluate Expression To True - InterviewBit

<https://www.interviewbit.com/problems/evaluate-expression-to-true/>  
(<https://www.interviewbit.com/problems/evaluate-expression-to-true/>)

Coins in a Line - InterviewBit

<https://www.interviewbit.com/problems/coins-in-a-line/>  
(<https://www.interviewbit.com/problems/coins-in-a-line/>)

Arrange II - InterviewBit

<https://www.interviewbit.com/problems/arrange-ii/>  
(<https://www.interviewbit.com/problems/arrange-ii/>)

Equal Average Partition - InterviewBit

<https://www.interviewbit.com/problems/equal-average-partition/>  
(<https://www.interviewbit.com/problems/equal-average-partition/>)

Coin Sum Infinite - InterviewBit

<https://www.interviewbit.com/problems/coin-sum-infinite/>  
(<https://www.interviewbit.com/problems/coin-sum-infinite/>)

Rod Cutting - InterviewBit

<https://www.interviewbit.com/problems/rod-cutting/>  
(<https://www.interviewbit.com/problems/rod-cutting/>)

Intersecting Chords in a Circle - InterviewBit

<https://www.interviewbit.com/problems/intersecting-chords-in-a-circle/>  
(<https://www.interviewbit.com/problems/intersecting-chords-in-a-circle/>)

Count Permutations of BST - InterviewBit

<https://www.interviewbit.com/problems/count-permutations-of-bst/>  
(<https://www.interviewbit.com/problems/count-permutations-of-bst/>)

Queen Attack - InterviewBit

<https://www.interviewbit.com/problems/queen-attack/>  
(<https://www.interviewbit.com/problems/queen-attack/>)

Longest Arithmetic Progression - InterviewBit

<https://www.interviewbit.com/problems/longest-arithmetic-progression/>  
(<https://www.interviewbit.com/problems/longest-arithmetic-progression/>)

Sub Matrices with sum Zero - InterviewBit

<https://www.interviewbit.com/problems/sub-matrices-with-sum-zero/>  
(<https://www.interviewbit.com/problems/sub-matrices-with-sum-zero/>)

N digit numbers with digit sum S - InterviewBit

[https://www.interviewbit.com/problems/n-digit-numbers-with-digit-sum-s-/](https://www.interviewbit.com/problems/n-digit-numbers-with-digit-sum-s/)  
(<https://www.interviewbit.com/problems/n-digit-numbers-with-digit-sum-s-/>)

Length of Longest Subsequence - InterviewBit

<https://www.interviewbit.com/problems/length-of-longest-subsequence/>  
(<https://www.interviewbit.com/problems/length-of-longest-subsequence/>)

Ways to color a 3xN Board - InterviewBit

<https://www.interviewbit.com/problems/ways-to-color-a-3xn-board/>  
(<https://www.interviewbit.com/problems/ways-to-color-a-3xn-board/>)

Tushar Birthday Bombs - InterviewBit

<https://www.interviewbit.com/problems/tushars-birthday-bombs/>  
(<https://www.interviewbit.com/problems/tushars-birthday-bombs/>)

Tushar Birthday Party - InterviewBit

<https://www.interviewbit.com/problems/tushars-birthday-party/>  
(<https://www.interviewbit.com/problems/tushars-birthday-party/>)

Kth Manhattan Distance Neighbourhood - InterviewBit

<https://www.interviewbit.com/problems/kth-manhattan-distance-neighbourhood/>  
(<https://www.interviewbit.com/problems/kth-manhattan-distance-neighbourhood/>)

Largest area of rectangle with permutations - InterviewBit

<https://www.interviewbit.com/problems/largest-area-of-rectangle-with-permutations/>  
(<https://www.interviewbit.com/problems/largest-area-of-rectangle-with-permutations/>)

Kingdom War - InterviewBit

<https://www.interviewbit.com/problems/kingdom-war/>  
(<https://www.interviewbit.com/problems/kingdom-war/>)

<https://www.codechef.com/ZCOPRAC/problems/ZCO14002>  
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<https://codeforces.com/problemset/problem/1221/D>  
(<https://codeforces.com/problemset/problem/1221/D>)

<https://codeforces.com/problemset/problem/1329/B>  
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<https://www.spoj.com/problems/COINS/> (<https://www.spoj.com/problems/COINS/>)

<https://atcoder.jp/contests/dp/tasks> (<https://atcoder.jp/contests/dp/tasks>)

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(<https://codeforces.com/problemset/problem/1114/D>)

<https://codeforces.com/problemset/problem/264/B>  
(<https://codeforces.com/problemset/problem/264/B>)

<https://codeforces.com/contest/977/problem/F> (<https://codeforces.com/contest/977/problem/F>)

<https://codeforces.com/contest/597/problem/C> (<https://codeforces.com/contest/597/problem/C>)

<https://codeforces.com/contest/1249/problem/E>  
(<https://codeforces.com/contest/1249/problem/E>)

[https://atcoder.jp/contests/abc163/tasks/abc163\\_e](https://atcoder.jp/contests/abc163/tasks/abc163_e)  
([https://atcoder.jp/contests/abc163/tasks/abc163\\_e](https://atcoder.jp/contests/abc163/tasks/abc163_e))

<https://codeforces.com/contest/1066/problem/F>  
(<https://codeforces.com/contest/1066/problem/F>)

<https://codeforces.com/contest/1324/problem/E>  
(<https://codeforces.com/contest/1324/problem/E>)

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<https://codeforces.com/contest/1354/problem/E>  
(<https://codeforces.com/contest/1354/problem/E>)

<https://codingcompetitions.withgoogle.com/kickstart/round/000000000019ffc7/00000000001d44>  
(<https://codingcompetitions.withgoogle.com/kickstart/round/000000000019ffc7/00000000001d44>)

[https://atcoder.jp/contests/dp/tasks/dp\\_n](https://atcoder.jp/contests/dp/tasks/dp_n) ([https://atcoder.jp/contests/dp/tasks/dp\\_n](https://atcoder.jp/contests/dp/tasks/dp_n))

<https://www.spoj.com/problems/PT07X/> (<https://www.spoj.com/problems/PT07X/>)

[https://atcoder.jp/contests/dp/tasks/dp\\_g](https://atcoder.jp/contests/dp/tasks/dp_g) ([https://atcoder.jp/contests/dp/tasks/dp\\_g](https://atcoder.jp/contests/dp/tasks/dp_g))

<https://codeforces.com/contest/1077/problem/F1>  
(<https://codeforces.com/contest/1077/problem/F1>)

<https://codeforces.com/contest/1077/problem/F2>  
(<https://codeforces.com/contest/1077/problem/F2>)

<https://codeforces.com/contest/1133/problem/E>  
(<https://codeforces.com/contest/1133/problem/E>)

<https://codeforces.com/contest/808/problem/E> (<https://codeforces.com/contest/808/problem/E>)

<https://codeforces.com/contest/1312/problem/E>  
(<https://codeforces.com/contest/1312/problem/E>)

<https://codeforces.com/contest/1154/problem/F>  
(<https://codeforces.com/contest/1154/problem/F>)

Longest Palindromic Substring - LeetCode

<https://leetcode.com/problems/longest-palindromic-substring/>  
(<https://leetcode.com/problems/longest-palindromic-substring/>)

Best Time to Buy and Sell Stock - LeetCode

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>  
(<https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>)

Burst Balloons - LeetCode

<https://leetcode.com/problems/burst-balloons/> (<https://leetcode.com/problems/burst-balloons/>)

Maximum Product Subarray - LeetCode

<https://leetcode.com/problems/maximum-product-subarray/>  
(<https://leetcode.com/problems/maximum-product-subarray/>)

Minimum Path Sum - LeetCode

<https://leetcode.com/problems/minimum-path-sum/> (<https://leetcode.com/problems/minimum-path-sum/>)

Best Time to Buy and Sell Stock with Cooldown - LeetCode

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-cooldown/>  
(<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-cooldown/>)

Arithmetic Slices - LeetCode



<https://leetcode.com/problems/arithmetical-slices/> (<https://leetcode.com/problems/arithmetical-slices/>)

Word Break II - LeetCode

<https://leetcode.com/problems/word-break-ii/> (<https://leetcode.com/problems/word-break-ii/>)

Stone Game II - LeetCode

<https://leetcode.com/problems/stone-game-ii/> (<https://leetcode.com/problems/stone-game-ii/>)

Ugly Number II - LeetCode

<https://leetcode.com/problems/ugly-number-ii/> (<https://leetcode.com/problems/ugly-number-ii/>)

Interleaving String - LeetCode

<https://leetcode.com/problems/interleaving-string/> (<https://leetcode.com/problems/interleaving-string/>)

Min Cost Climbing Stairs - LeetCode

<https://leetcode.com/problems/min-cost-climbing-stairs/> (<https://leetcode.com/problems/min-cost-climbing-stairs/>)

Partition to K Equal Sum Subsets - LeetCode

<https://leetcode.com/problems/partition-to-k-equal-sum-subsets/>  
(<https://leetcode.com/problems/partition-to-k-equal-sum-subsets/>)

Largest Divisible Subset - LeetCode

<https://leetcode.com/problems/largest-divisible-subset/> (<https://leetcode.com/problems/largest-divisible-subset/>)

Combination Sum IV - LeetCode

<https://leetcode.com/problems/combination-sum-iv/>  
(<https://leetcode.com/problems/combination-sum-iv/>)

House Robber II - LeetCode

<https://leetcode.com/problems/house-robber-ii/> (<https://leetcode.com/problems/house-robber-ii/>)

[ii/](#)

Bomb Enemy - LeetCode

<https://leetcode.com/problems/bomb-enemy/> (<https://leetcode.com/problems/bomb-enemy/>)

Push Dominoes - LeetCode

<https://leetcode.com/problems/push-dominoes/> (<https://leetcode.com/problems/push-dominoes/>)

Length of Longest Fibonacci Subsequence - LeetCode

<https://leetcode.com/problems/length-of-longest-fibonacci-subsequence/>  
(<https://leetcode.com/problems/length-of-longest-fibonacci-subsequence/>)

Continuous Subarray Sum - LeetCode

<https://leetcode.com/problems/continuous-subarray-sum/>  
(<https://leetcode.com/problems/continuous-subarray-sum/>)

Palindrome Partitioning III - LeetCode

<https://leetcode.com/problems/palindrome-partitioning-iii/>  
(<https://leetcode.com/problems/palindrome-partitioning-iii/>)

Smallest Sufficient Team - LeetCode

<https://leetcode.com/problems/smallest-sufficient-team/>  
(<https://leetcode.com/problems/smallest-sufficient-team/>)

Count Square Submatrices with All Ones - LeetCode

<https://leetcode.com/problems/count-square-submatrices-with-all-ones/>  
(<https://leetcode.com/problems/count-square-submatrices-with-all-ones/>)