Competitive Programming Checklist

■ Level 0: Fundamentals

CSES – Counting Divisors
Infoarena – factori2 (prime factorization up to 10^7)
Infoarena – euler (Euler's Totient up to 10^6)

■ Level 0: 1D Dynamic Programming

AtCoder dp_a – Frog 1
AtCoder dp_b – Frog 2
CSES – Minimizing Coins
CSES – Coin Combinations I
Maximum Subarray Sum (Kadane)
Leetcode – House Robber
CSES – Staircase

■ Level 0: Simple Implementation / Ad-Hoc

CF 702A – Maximum Increase
CF 1659A – Red Versus Blue

■ Level 1: GCD / LCM & Combinatorics

Kilonova 784 – divizor
Kilonova 772 – numere
CSES – Binomial Coefficients II
Kilonova 1982 – Combination
Kilonova 1981 – divizibilitate
Kilonova 1983 – Common divisors and multiples

■ Level 1: 2D Dynamic Programming (Grid & Basic String)

CSES – Grid Paths
CSES – Grid Paths with Obstacles
Longest Common Substring
AtCoder dp_f – LCS
AtCoder dp_d – 0/1 Knapsack
Subset Sum
Leetcode – Partition Equal Subset Sum
CSES – Edit Distance

■ Level 1: CF Practice – Core Patterns

CF 1626A – Equidistant Letters
CF 1363B – Subsequence Hate
CF 1485A – Add and Divide

■ Level 2: Sequence & Space-Optimized DP

CSES – LIS O(n²)
Leetcode – LIS O(n log n)
Optimized 0/1 Knapsack (1D DP)
Codeforces EDU – Digit DP

■ Level 2: Graphs & Trees Intro

CSES – Labyrinth
Kilonova – Parcurgeri (NOI 2013 p1)
Kilonova 533 – keidei (DFS pre-order / BFS)
Kilonova 1126 – sumarb (subtree sums)
Kilonova 1254 – depth (node depths via DFS)

■ Level 2: CF Practice – Intermediate

CF 1399C – Boats Competition
CF 1473B – String LCM
CF 1500C – Matrix Sorting

■ Level 3: Advanced Topics

CSES – Subarray Divisors
CSES – Removal Game
Leetcode – Longest Palindromic Subsequence
Leetcode – Palindrome Partitioning II
AtCoder dp_g – Longest Path in DAG
Infoarena – submultime (subset-sum bitset DP)

■ Level 3: CF Practice – Advanced

CF 1705C – Mark and His Unfinished Essay
CF 1132G – Greedy Merchants
Exponential-state DP & Bitmask Tutorial (Video)
Exponential-state DP & Bitmask Tutorial (Blog)
CF 2069C – Bitmask DP Example
CF 2053C – Common Divisors?
CF 2052F
CF 2050E
CF 2050C
CF 2033D
CF 2029C
CF 2028C
CF 2027C
CF 2008E
CF 2008D
CF 1999E
CF 1997D

CF 1994C
CF 1992D
CF 1987C
CF 1984C1

■ Level 4: Elite Challenges

AtCoder dp_h – TSP with Bitmask
AtCoder dp_o – Assignment Problem (bitmask)
Sprague–Grundy / Grundy Numbers (theory & small examples)

■ Level 4: CF Practice – Elite

CF 1400E – Clear the Multiset
CF 1499F – Diameter Cuts
CF 2036D
CF 2036C
CF 2034B
CF 2026C
CF 2025C
CF 2020C
CF 2019B
CF 1999D
CF 1993C
CF 1984B
CF 1983B
CF 1980D
CF 1978C