

# Codeforces :: Daily Practice

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## [+] F. Jumping Man

You are given a tree rooted at node 1, where each node contains a lowercase letter. For each node  $i$ , consider all valid paths starting from nodes inside its subtree and form strings using the characters along those paths. The task is to compute the sum of squares of occurrences of each distinct string. The solution requires advanced tree processing and string aggregation techniques.

-> <https://codeforces.com/contest/2183/problem/F>

## [+] G. Snake Instructions

There are  $n$  snakes on a number line, each with an unknown speed between 0 and 2. You can issue at most three global movement instructions consisting of L and R. After each instruction, you observe final positions. The goal is to determine the exact speed of each snake or conclude that it is impossible. This problem focuses on information theory and optimal query design.

-> <https://codeforces.com/contest/2183/problem/G>

## [+] H. Minimise Cost

You are given an array  $a$  of length  $n$  and an integer  $k$ . The cost of a subsequence  $b$  is defined as  $|b|$  multiplied by the sum of its elements. Partition the array into exactly  $k$  non-empty subsequences such that the total cost is minimized. This problem combines greedy insights with careful ordering and optimization strategies.

-> <https://codeforces.com/contest/2183/problem/H>