Top-20 Training Program
(Advanced DP Problems)

Apply the solution building strategies discussed in class to solve following problems.

Group1: Counting Problems
Unique BST: https://leetcode.com/problems/unique-binary-search-trees/description/
Unique BST-II: https://leetcode.com/problems/unique-binary-search-trees-ii/
Cut the Stick:
https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_problem&problem=944

Group2: Operations over linear sequence of objects
Stone Game: https://www.lintcode.com/problem/stone-game/description
Segment Stone Merge: https://www.lintcode.com/problem/segment-stones-merge/description
Mixtures: http://www.spoj.com/problems/MIXTURES/
Burst Balloons: https://leetcode.com/problems/burst-balloons/description/
An Old Stone Game: http://poj.org/problem?id=1738
Sweet & Sour Rock: http://www.spoj.com/problems/ROCK/
Matrix Chain Multiplication: https://www.hackerrank.com/contests/programming-jam-2-0/challenges/matrix-chain-multiplication
Min Cuts for Palindrome Partitioning: https://leetcode.com/problems/palindrome-partitioning-ii/description/
Restaurant Merging: Given a linear row of n restaurants of varying sizes, find an efficient algorithm that computes minimum cost required to merge them into single very large restaurant subject to following rules:
   a. You can only merge any two adjacent restaurants and a new restaurant will replace those two.
   b. The cost of merging equals to maximum size of those restaurants.
   c. The size of the new restaurant equals to sum of sizes of those restaurants.