

Problems

Mock Contest Discuss



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Dynamic Programming Patterns (6)







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★ 6872

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Before starting the topic let me introduce myself. I am a Mobile Developer currently working in \ interview preparations. I started to prepare for interviews two years ago. At that time I should sa Easy problems seemed to me like hard ones so most of the time I had to look at editorials and d ~800 problems and time to time participate in contests. I usually solve 3 problems in a contest a back to the topic.

Recently I have concentrated my attention on Dynamic Programming cause its one of the harde solving ~140 problems in DP I have noticed that there are few patterns that can be found in diffe and find the following topics. I will not give complete ways how to solve problems but these pat

Patterns

Minimum (Maximum) Path to Reach a Target

Distinct Ways

Merging Intervals

DP on Strings

Decision Making

Minimum (Maximum) Path to Reach a Target

Generate problem statement for this pattern

Statement

Given a target find minimum (maximum) cost / path / sum to reach the target.

Approach

Choose minimum (maximum) path among all possible paths before the current state, then a

routes[i] = min(routes[i-1], routes[i-2], ..., routes[i-k]) + cost[i]