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Course Info

Week 6

Algorithmic Toolbox

Week 6

Discuss this week's modules here.

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Dynamic Programming 2



In this module, we continue practicing implementing dynamic programming solutions.

Learning Objectives

- continue practicing implementing dynamic programming solutions
- learn more complex applications of dynamic programming
- implement efficient solutions to various problems in combinatorial optimization

Less

Knapsack

Video: Problem Overview 5 min

Resume

Practice Quiz: Knapsack 2 questions

Video: Knapsack with Repetitions 10 min

Video: Knapsack without Repetitions 18 min

Video: Final Remarks 7 min

Reading: Polynomial vs Pseudopolynomial

Reading: Resources 5 min

Placing Parentheses

Video: Problem Overview 7 min

Practice Quiz: Maximum Value of an Arithmetic Expression 1 question

Video: Subproblems 6 min

Video: Algorithm 12 min

Video: Reconstructing a Solution 8 min

Programming Assignment

Programming Assignment: Programming Assignment 6: Dynamic Programming 2 3h

Due Aug 30, 1:59 AM CDT

