Session 2 Fundamentals

Lecture Summary

Instructors should not spend more than two weeks on Chapter 2. Coverage should focus on helping students tackle homework exercises and pick up the requisite terms, definitions, and skills. Later chapters will offer an opportunity for elaboration.

Efficiency Analysis Framework

- 1. Analysis focus: time efficiency
- 2. Input size as parameter
- 3. Measuring algorithm run time
- 4. Algorithm efficiency: order of growth of run time
- 5. Types of efficiency analysis: worst, best, and average cases, amortized efficiency
- 6. A general plan for analysis

Session Exercise

Exercise 2.1 • 8, 9

Reading List

2.1

Keywords

Amortized [efficiency], efficiency, [order of] growth