

Homework 1 — Theory of Computation

From: Hopcroft, Motwani & Ullman, *Introduction to Automata Theory, Languages, and Computation* (3rd Edition)

Due Date: November 22, 2025

Assigned Exercises:

- Exercise 2.2.4, page 53
- Exercise 2.2.5, pages 53–54
- Exercise 2.2.10, page 54
- Exercise 2.2.11, page 55
- Exercise 2.3.1, page 65
- Exercise 2.3.2, page 66
- Exercise 2.3.3, page 66
- Exercise 2.4.1, pages 71–72
- Exercise 2.4.2, page 72
- Exercise 2.5.1, page 79
- Exercise 2.5.2, page 79