

Time complexity classes, P and NP

Textbook: Chapter 7.2, 7.3

Polynomial time

The class P

Verifiers

Nondeterministic polynomial time

The class NP

Does $P = NP$?

Satisfiability

Polynomial-time mapping reducibility

NP-completeness

Cook-Levin theorem (SAT is NP-complete)

Next up: Linear Bounded Automata (LBA)