

Theory of Computation Assignment 1: Automata and Languages

Overview

Assignment prompt: Do something interesting related to automata and/or languages not covered in class.

If you are unsure if a topic counts, just ask. Please turn in a substantive report including any proofs, equations, diagrams, etc. used. Alternatively, turn in a well-documented code project. If a report is chosen, latex or markdown is recommended (but not required). If generative AI is used, include screenshots of the chat. Please cite (or at least list) any outside sources.

Examples: - Prove something is Turing complete - Writeup an obscure type of automaton - Write a program simulating a class of automaton