

Theory of Computation Assignment 3: Complexity

Overview

Assignment prompt: Do something interesting related to complexity 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 $P/NP/NP$ -complete/ NP -hard - Examine other known complexity classes - Write up some interesting pre-existing research result