Reading. Read Chapter 1: “Introduction to the Theory of Computation”; omit Section 1.3 entirely and permanently. Read Sections 1.2.2 and 1.2.3, but for the moment we ignore them. (1.2.3 “Automata” comes up officially next week, and 1.2.2 “Grammars” we ignore until section 3.4.)

Additional Resources. This assignment is a review of the material found in a discrete math class. There is one pre-recorded lecture pertaining to this assignment. It concerns Linz 6th, section 1.2 and can be found on Canvas.

Assignment. Do some small number of the following exercises.

- Section 1.1: 1–20, 38, 40–46.
- Section 1.2: 1–11.

We are especially interested in clear exposition and proof technique. (Some solutions sketches are in the back of the book.)

Submission. Write up the solutions. You may use pen and paper, plain text, or $\LaTeX$. Produce a PDF document, and submit it on Canvas by the end of the day Fri, 27 Aug 2021. The due date is for the completed problem set. You should read the material in advance, and start thinking and working on the problems in advance, so that you can ask questions in class.

Questions. If you still have questions about how to do the problems, you are welcome to send me e-mail: ryan@fit.edu. Students may be called upon to share and explain their progress on the exercises during class.

Assessment. Ultimately the written proofs, your choice of exercises, and your participation in answering and asking questions, will influence your course grade.