Play list

- Here's a list of all the things we've covered.
  - Alphabets, Strings, and Languages
  - DFAs and Regular Languages
  - The Regular Operations (Union, Concatenation, and Kleene star)
  - Nondeterminism and NFAs
  - Equivalence between NFAs and DFAs (Subset Construction)
  - Closure under the Regular Operations
  - Regular Expressions
  - Equivalence between Regular Expressions and Finite Automata
    - Converting Regular Expressions to NFAs
    - Converting DFAs to Regular Expressions
- The amount of material covered is equal to the first two-and-a-half lectures of the MIT Playlist. You might also find the recorded lectures from last semester and this playlist helpful.
- How to prepare:
  - If you haven't already, read through Chapter 1 (except Section 1.4) from Sipser. I know most of you aren't in the habit of reading textbooks but reading does help in understanding the material more deeply.
  - There are practice problems at the end of chapter 1. You should do the ones labeled "Exercises" and not "Problems"
  - If you want additional problems, check out the practice sheets on buX (weeks 2-6).
- Additional Resources:
  - Quiz 1 (section 5, section 6, section 8)
  - Quiz 2 (section 5 (1, 2), section 6 (1, 2), section 8 (1, 2))
  - Past midterm questions (Spring 22, Summer 22) (Note that the syllabus for the past midterms might have been different)
- Assignment 1 instructions:
  - Solve the quiz 1 problems for sections 5 and 8, turn your solutions into a single pdf file, and submit it here.
  - Deadline: 5 pm, November 15. The deadline is quite far away. But it would be best if you were doing the assignment as you're preparing for the midterm.

Good luck!

- Final Question Papers
- Midterm Question Papers
- CSE331: Automata and Computability
- Hand Notes:
- https://github.com/amirsakib16/CSE331-Automata-Computability
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