Today Finite-state automata. § 1.1, 1.2.
Next class Regular expressions, equivalence to FSAs, nonregular languages. § 1.3, 1.4.

1. List the members of your group below. Underline your name.

2. Provide a formal description of the automaton M_4 from page 38 of the textbook, using the description on page 36 as a guide.

3. Trace the action of the automaton of Question 2 on the following strings by annotating each character of each string with the corresponding state of the automaton.

   (a) `abbaababa`

   (b) `bbbabaaab`

   (c) `bbbabaaba`

4. Design an DFA that accepts integer literals in Java syntax. Explain how your DFA works.

5. Provide an NFA and a DFA for the language of binary strings whose fourth-last character is a 1. Explain briefly.