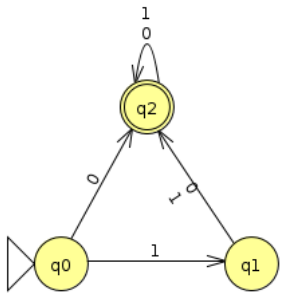
CS 228, Finite State Machines with No Output

Name:

Some questions are from **Discrete Mathematics and It's Applications 7e** by Kenneth Rosen.

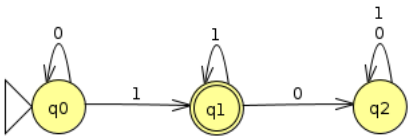
- Which of the strings below are accepted by this finite state automata?



λ, 010110, 0, 1, 11101, 01111

- Use set notation to describe the language accepted by the FSA above.

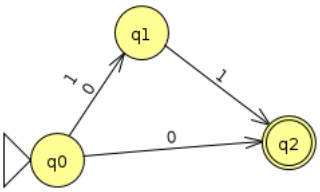
- Which of the strings below are accepted by this finite state automata?



λ, 010110, 0, 1, 11101, 01111

- Use set notation to describe the language accepted by the FSA above.

- Which of the strings below are accepted by this non-deterministic finite state automata?



λ, 0, 11, 01, 11101, 01111

- Use set notation to describe the language accepted by the NFSA above.

- Construct a deterministic FSA that recognizes the set of all bit strings that contain exactly three zeros.

- Construct a deterministic FSA that recognizes the set of all bit strings that contain three consecutive 1s.