Theory of Computation

Exercise 2: (Deterministic Finite Automata - DFA)

1. Draw DFA for L1

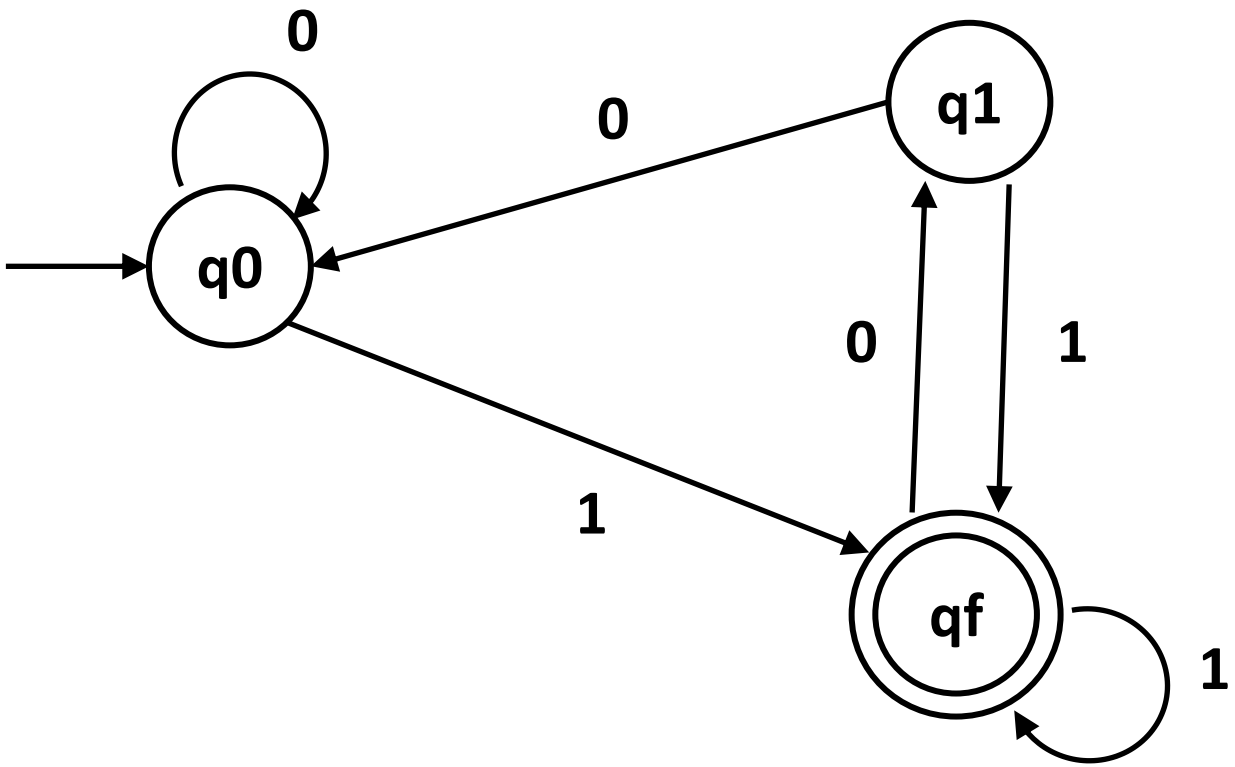
$$L1 = \{w \in \{0,1\}^* : w \; has \; no \; substring \; 11\}$$

2. Draw DFA for L2

$$L2 = \{0, 10\}^* \cup \{1\}$$

3. Find the language of DFA M.

M:



* 4. Draw DFA for L3

(Homework 1)

$$L3 = \{\, a^m\ b^n : m + n = 5;\ \ m\ and\ n\ \geq 0 \,\}$$