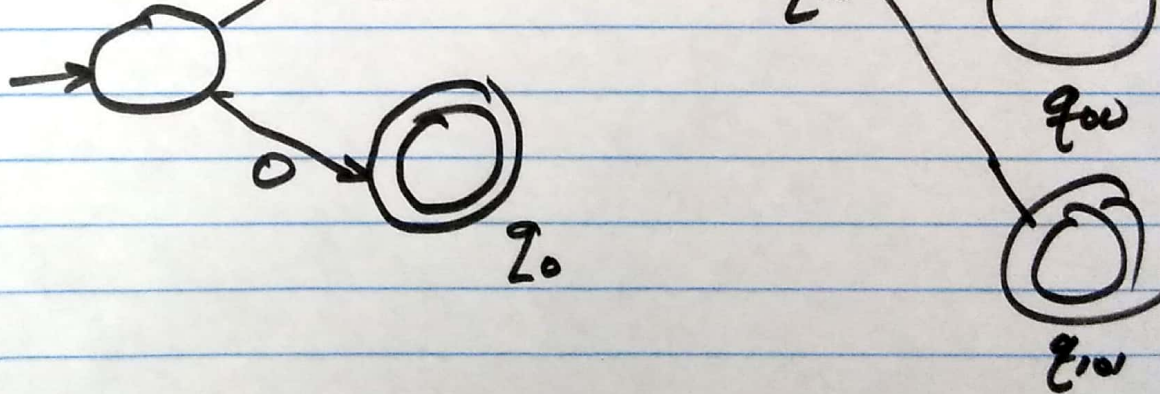
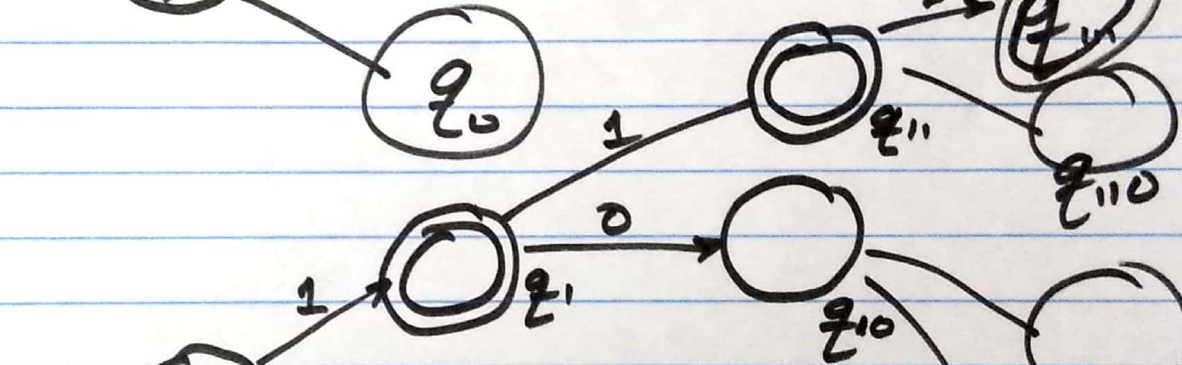
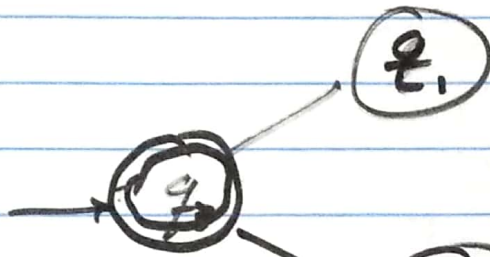


(1)

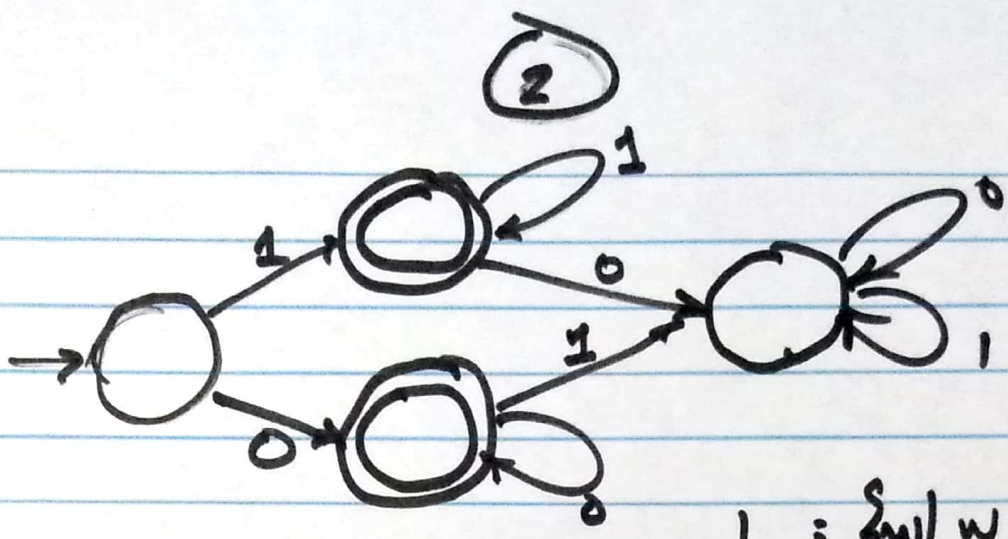
1-26

Design DFA for 1, 2, or 3 symbol palindrome.



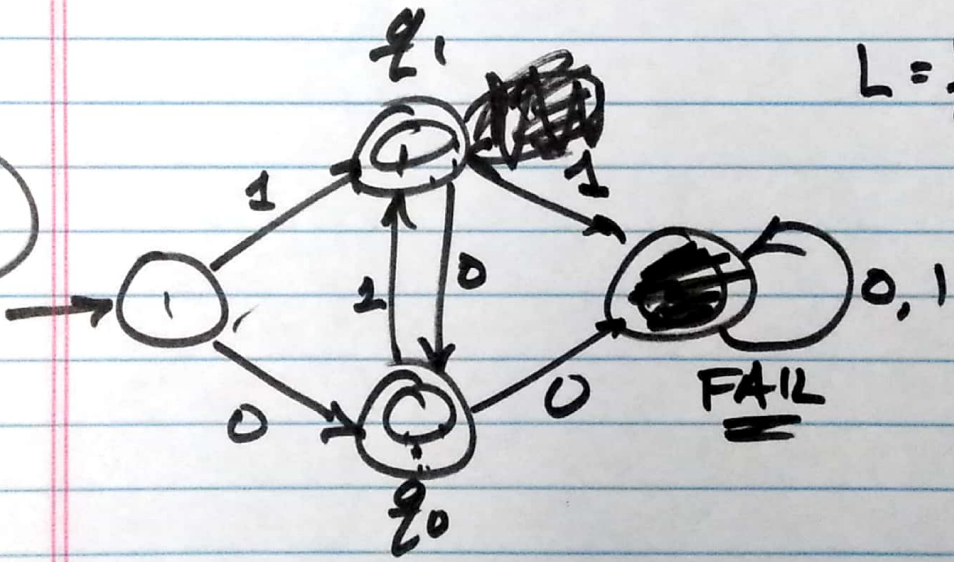
0
1
00
11
010
101
111
000

DFA 1

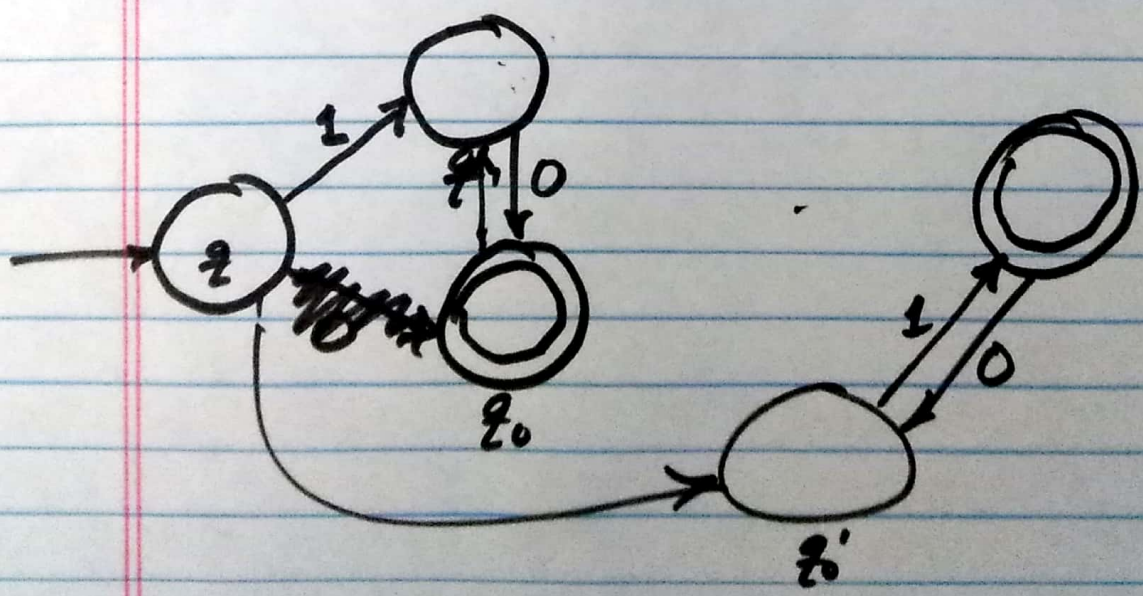


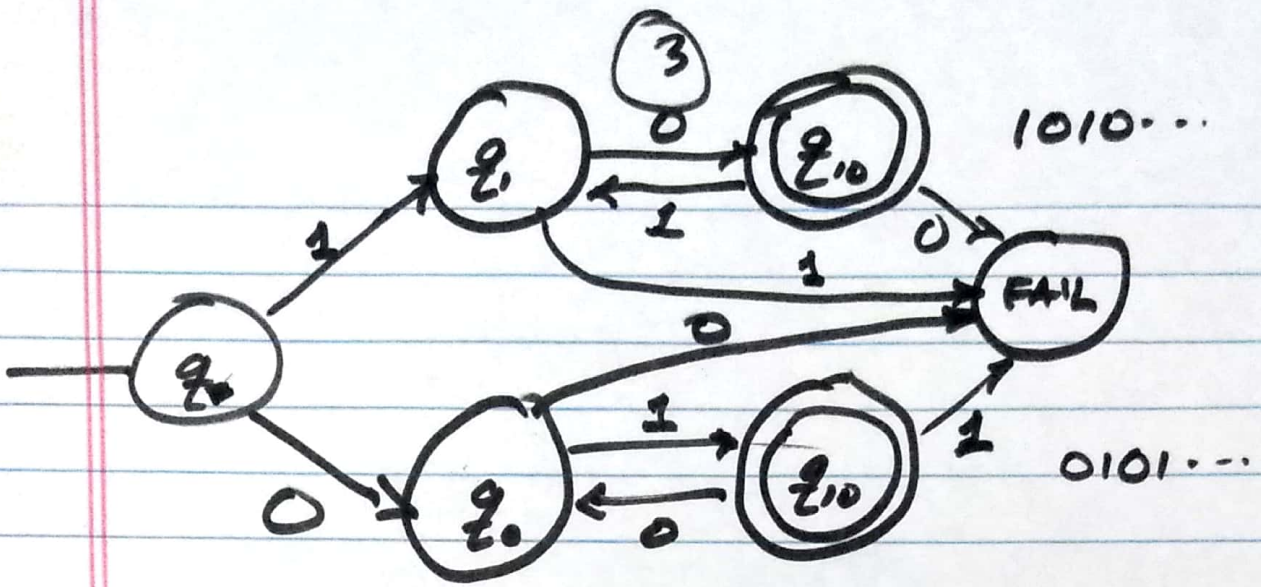
$$L = \left\{ w \mid \begin{array}{l} w = 00 \dots 0 \\ \text{or } w = 111 \dots 1 \end{array} \right\}$$

DFA 2



$$L = \left\{ w \mid \begin{array}{l} w = 0101 \dots \\ \text{or } w = 1010 \dots \end{array} \right\}$$





NFA?

$$\text{NFA} = \langle \Sigma, Q, \delta, q_0, F \rangle$$