

Below is the DFA  $M_1$  defined on Page 36 of the ITC textbook.

$$Q = \{q_0, q_1, q_2\}$$

$$\Sigma = \{0, 1\}$$

$$F = \{q_2\}$$

$$q_0 = q_1$$

$$\delta = \{((q_0, 0), q_1), ((q_0, 1), q_0), ((q_1, 0), q_2), ((q_1, 1), q_1)\}$$

Transition Function in Table form:

	0	1
$q_1$	$q_2$	$q_3$
$q_2$	$q_3$	$q_2$
$q_3$	$q_2$	$q_2$

DFA in Pictorial form:

