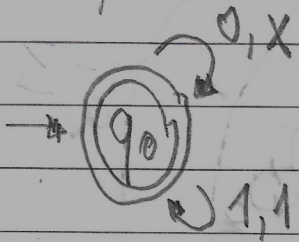


28.10.20

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Lista de Exercícios 7

① Máquina de Mealy: $M = (\Sigma, Q, \delta, q_0, F, \Delta)$



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

$$Q = \{q_0\}$$

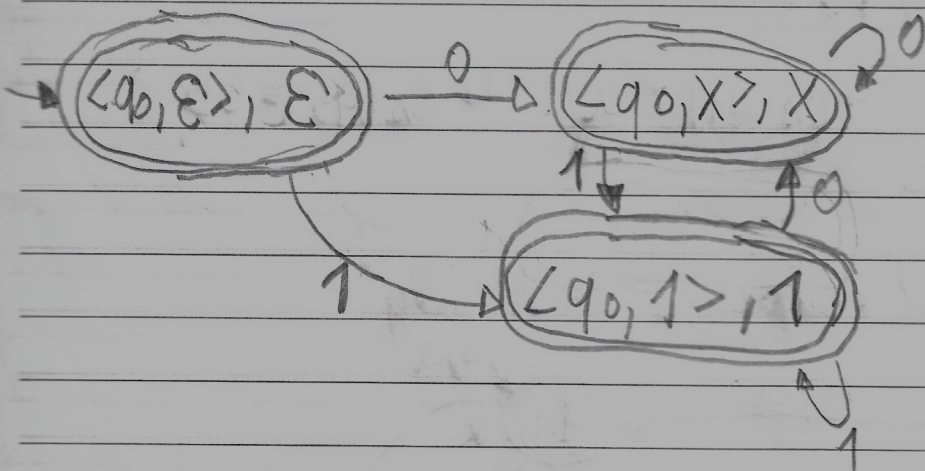
$$q_0 = \{q_0\}$$

$$F = \{q_0\}$$

$$\Delta = \{X, 1\}$$

Equivalência p/ Máquina de Moore:

$$M' = (\Sigma, Q', \delta', q_0', F', \Delta, \delta\Delta)$$



$$Q' = \{ \langle q_0, \epsilon \rangle; \langle q_0, X \rangle; \langle q_0, 1 \rangle \}$$

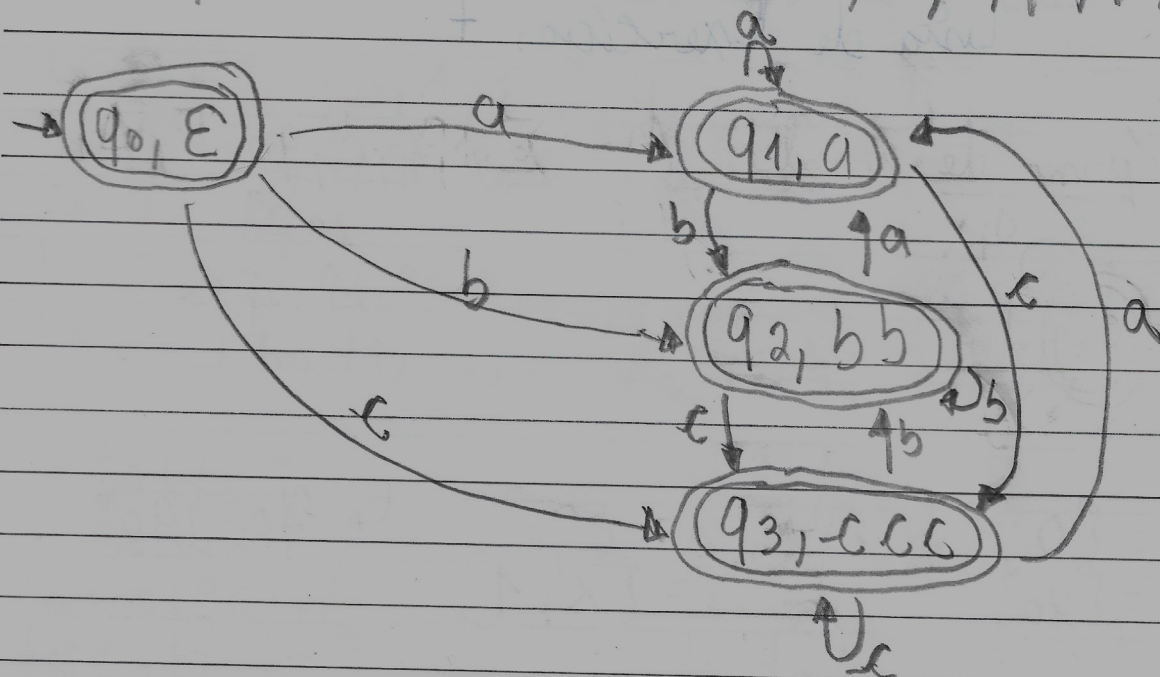
$$q_0' = \{ \langle q_0, \epsilon \rangle \}$$

$$\delta\Delta(\langle q_0, \epsilon \rangle) = \epsilon$$

$$\delta\Delta(\langle q_0, X \rangle) = X$$

$$\delta\Delta(\langle q_0, 1 \rangle) = 1$$

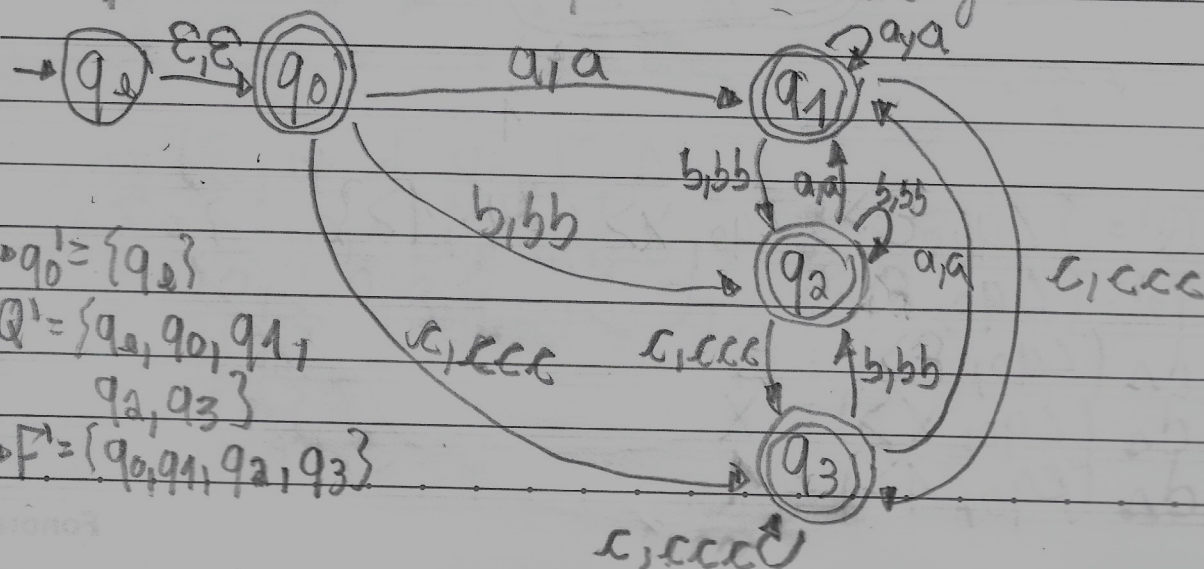
2) Máquina de Moore: $M = (\Sigma, Q, d, q_0, F, \Delta, ds)$



$\Sigma = \{a, b, c\}$ $Q = \{q_0, q_1, q_2, q_3\}$
 $q_0 = \{q_0\}$ $\Delta = \{a, b, c\}$
 $F = \{q_0, q_1, q_2, q_3\}$

$ds(q_0, \epsilon) = \epsilon$ $ds(q_1, a) = a$ $ds(q_2, bb) = bb$
 $ds(q_3, ccc) = ccc$

Equivalência p/ Máquina de Mealy:



$q_0' = \{q_0\}$

$Q' = \{q_0, q_1, q_2, q_3\}$

$F' = \{q_0, q_1, q_2, q_3\}$