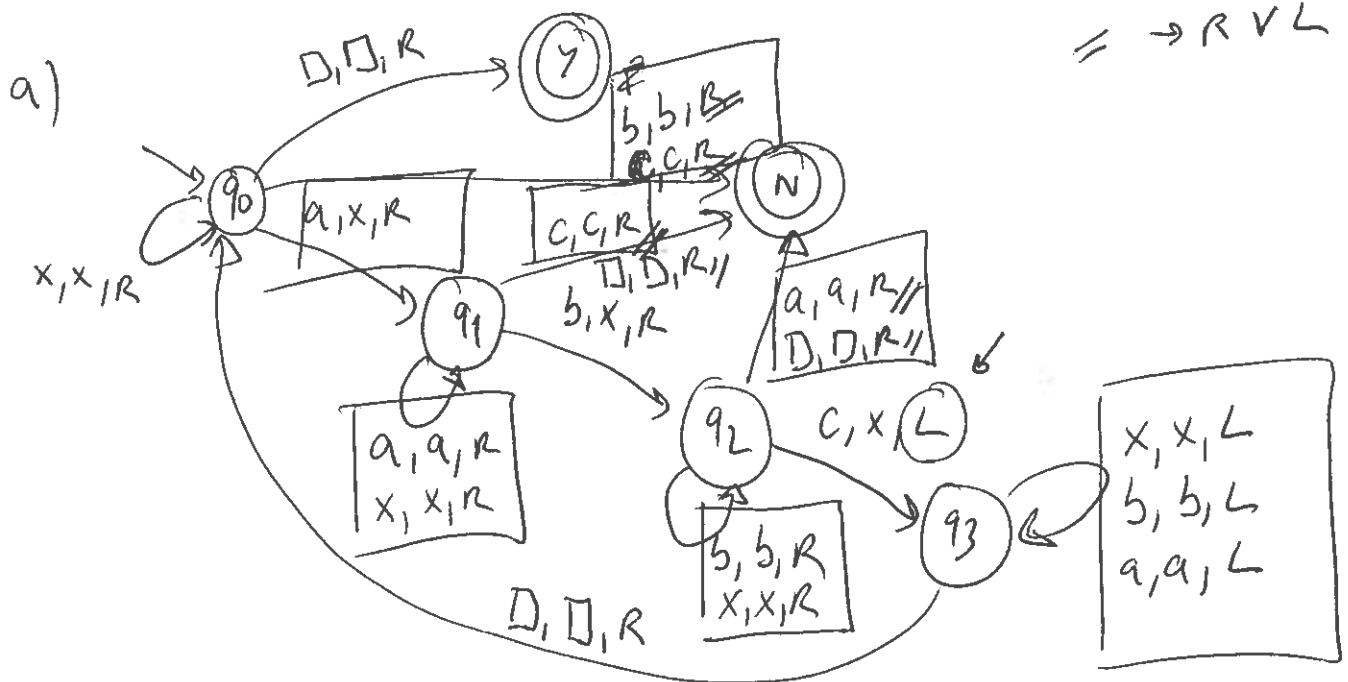


④ c) ASSUMINDO  $\Sigma = \{a, b, c\}$ , ~~o alfabeto~~  $\bar{L}$  por  $y$ ,  
 pode ser implementada ~~por~~  $\epsilon$  para  $N \in \bar{N}$  por  $y$ .

b)

$q_0 abc \vdash x q_1 bc \vdash xx q_2 c \vdash x q_3 xx \vdash q_3 xxx$   
 $\vdash q_3 \square xxx \vdash q_0 xxx \vdash x q_0 xx \vdash xx q_0 x$   
 $\vdash xxx q_0 \square \vdash xxx \square y$



$T = (\{q_0, q_1, q_2, q_3, y, N\}, \{a, b, c, x, \square, y, N\}, \{a, b, c, x\}, \delta, \square, \{y, N\})$

$\delta(q_0, \square) = (y, \square, R)$   
 $\delta(q_0, x) = (q_1, x, R)$   
 $\delta(q_0, a) = (q_1, x, R)$   
 $\delta(q_1, c) = (N, c, R)$   
 $\delta(q_1, b) = (q_2, x, R)$   
 $\delta(q_1, a) = (q_2, a, R)$   
 $\delta(q_1, \square) = (N, \square, R)$   
 $\delta(q_2, \square) = (q_0, \square, R)$   
 $\delta(q_2, b) = (q_2, b, R)$   
 $\delta(q_2, a) = (N, a, R)$   
 $\delta(q_2, c) = (q_3, x, L)$   
 $\delta(q_3, \square) = (q_0, \square, R)$   
 $\delta(q_3, x) = (q_3, x, L)$   
 $\delta(q_3, b) = (q_3, b, L)$   
 $\delta(q_3, a) = (q_3, a, L)$