$$\Sigma = \{0, 1\}$$
$$\Gamma = \Sigma \cup \{L, R\} - \{\Theta\}$$
$$Q = \{q_0, q_1, q_2, q_3\}$$
$$A = \{q_3\}$$
$$q_0 = q_0$$
$$\delta : Q \times \Gamma \to Q \times \Gamma \times \{L, R\}$$

δ	0	1	Θ
q_0	$1, q_1, L$	$0, q_2, L$	$1, q_1, L$
q_1	$1, q_3, L$	$0, q_4, L$	$1, q_3, -$
q_2	$0, q_4, L$	$1, q_4, L$	$0, q_4, L$
q_3	$0, q_3, L$	$1, q_3, L$	$-, q_3, -$
q_4	$1, q_3, L$	$0, q_4, L$	$1, q_3, -$