Lenguajes Formales y Autómatas - Sección 01

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Exámen Final

Mi procedimiento. Realicé una tabla para manejar los estados de forma más organizada y sencilla.

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Estados:

q_0

$$\{q0,\ 1\} \rightarrow \{q1,\ b,\ R\}$$

$$\{q0,\,0\} \rightarrow \{q2,\,a,\,R\}$$

q_1

$$\{q1,\ 1\} \rightarrow \{q3,\ b,\ R\}$$

$$\{q1, 0\} \rightarrow \{q4, a, R\}$$

$$\{q2, 1\} \rightarrow \{q5, b, R\}$$

$$\{q2, 0\} \rightarrow \{q6, a, R\}$$

q_3

$$\{q3, 1\} \rightarrow \{q3, 1, R\}$$

$$\{q3, 0\} \rightarrow \{q3, 0, R\}$$

$$\{q3, =\} \rightarrow \{q3, =, R\}$$

$$\{q3, 2\} \rightarrow \{q3, 2, R\}$$

$$\{q3, 3\} \rightarrow \{q3, 3, R\}$$

$$\{q3, \epsilon\} \rightarrow \{q7, 3, L\}$$

q_4

$$\{q4, 1\} \rightarrow \{q4, 1, R\}$$

$$\{q4, 0\} \rightarrow \{q4, 0, R\}$$

$$\{q4, =\} \rightarrow \{q4, =, R\}$$

$$\{q4, 2\} \rightarrow \{q4, 2, R\}$$

$$\{q4, 3\} \rightarrow \{q4, 3, R\}$$

$$\{q4,\;\epsilon\} \rightarrow \{q7,\;3,\;L\}$$

q_5

$$\{q5, 1\} \rightarrow \{q5, 1, R\}$$

$$\{q5, 0\} \rightarrow \{q5, 0, R\}$$

$$\{q5,\, =\} \rightarrow \{q5,\, =,\, R\}$$

$$\{q5,\,2\} \to \{q5,\,2,\,R\}$$

$$\{q5, 3\} \rightarrow \{q5, 3, R\}$$

$$\{q5,\;\epsilon\} \rightarrow \{q7,\;1,\;L\}$$

$$\{q6, 1\} \rightarrow \{q6, 1, R\}$$

$$\{q6, 0\} \rightarrow \{q6, 0, R\}$$

$$\{q6, =\} \rightarrow \{q6, =, R\}$$

$$\{q6, 2\} \rightarrow \{q6, 2, R\}$$

$$\{q6, 3\} \rightarrow \{q6, 3, R\}$$

$$\{q6, \epsilon\} \rightarrow \{q7, 0, L\}$$

$$\{q7, 1\} \rightarrow \{q9, 1, L\}$$

$$\{q7, 0\} \rightarrow \{q9, 0, L\}$$

$$\{q7, =\} \rightarrow \{q8, =, L\}$$

$$\{q7, 2\} \rightarrow \{q9, 2, L\}$$

$$\{q7, 3\} \rightarrow \{q9, 3, L\}$$

q_8

$$\{q8, 1\} \rightarrow \{q8, 1, L\}$$

$$\{q8, 0\} \rightarrow \{q8, 0, L\}$$

$$\{q8,\,a\} \rightarrow \{q0,\,a,\,R\}$$

$$\{q8, b\} \rightarrow \{q0, b, R\}$$

q_9

$$\{q9, =\} \rightarrow \{q9, =, L\}$$

$$\{q9,\,a\} \rightarrow \{q9,\,0,\,L\}$$

$$\{q9, b\} \rightarrow \{q9, 1, L\}$$

$$\{q9, \epsilon\} \rightarrow \{q10, \epsilon, R\}$$

 $q_10 \rightarrow Estado de aceptación.$

Automata:

