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Exercício 24

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Introduction to the Theory of Computation

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Solução 🕏 Certificado

Passo 1

Starting from initial state, we follow the arrow whose first label corresponds to next input symbol, and write down the second label of that arrow.

Part a.

- * Sequence of states: \$q_1, q_1, q_1, q_1\$
- * Output: \$\texttt{000}\$

Part b.

- * Sequence of states: \$q_1, q_2, q_2, q_2\$
- * Output: \$\texttt{111}\$

Part c.

- * Sequence of states: \$q_1, q_1, q_2, q_2\$
- * Output: \$\texttt{011}\$

Part d.

- * Sequence of states: \$q_1, q_1, q_2, q_1, q_2\$
- * Output: \$\texttt{0101}\$

Part e.

- * Sequence of states: \$q 1, q 3\$
- * Output: \$\texttt{1}\$

Part f.

- * Sequence of states: \$q_1, q_3, q_2, q_3, q_2\$
- * Output: \$\texttt{1111}\$

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Passo 2 2 de 3

Part g.

* Sequence of states: \$q_1, q_3, q_2, q_1, q_3, q_2, q_1

* Output: \$\texttt{110110}\$

Part h.

* Sequence of states: \$q_1\$

* Output: \$\varepsilon\$

Resultado 3 de 3

Starting from initial state, we follow the arrow whose first label corresponds to next input symbol, and write down the second label of that arrow.

Avaliar esta solução

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