

Ciências / Ciência da computação / Introduction to the Theory of Computation (3rd Edition)

Exercício 11

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Introduction to the Theory of Computation

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Passo 1

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The idea is to add one new state, pronounce it to be accept state, add ε -transitions from every accept state to this new accept state, and say that old accept states are no longer accepting. Formal procedure is given below.

Let $M = \{Q, \Sigma, \delta, q_0, F\}$ be any NFA. We construct

$$M' = \{Q \cup \{q_{accept}\}, \Sigma, \delta', q_0, \{q_{accept}\}\}$$

where

$$\delta' = \delta \cup \bigcup_{q \in F} (q, \varepsilon, q_{accept}).$$

Resultado

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Adding new accept state and ε -transitions does the trick.

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