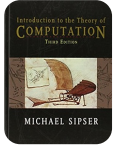


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Exercício 2

Capítulo 1, Página 83



Introduction to the Theory of Computation

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Solução



Certificado

Solução fornecida há 2 anos

Passo 1

1 de 3

Machine is formally 5-tuple $(Q, \Sigma, \delta, q_0, F)$, where:

Q is finite set of states;

Σ is finite alphabet;

δ is transition function from $Q \times \sigma$ to Q

$q_0 \in Q$ is start state

$F \subset Q$ is set of accept states

Now we write formal definitions of both machines.

$$\boxed{M_1}$$

$$Q = \{q_1, q_2, q_3\}$$

$$\Sigma = \{a, b\}$$

δ is given with following table:

	a	b
q_1	q_2	q_1
q_2	q_3	q_3
q_3	q_2	q_1

Start state is q_1

$$F = \{q_2\}$$

Passo 2

2 de 3

M_2

$Q = \{q_1, q_2, q_3, q_4\}$

$\Sigma = \{a, b\}$

δ is given with following table:

	<i>a</i>	<i>b</i>
<i>q</i> ₁	<i>q</i> ₁	<i>q</i> ₂
<i>q</i> ₂	<i>q</i> ₃	<i>q</i> ₄
<i>q</i> ₃	<i>q</i> ₂	<i>q</i> ₁
<i>q</i> ₄	<i>q</i> ₃	<i>q</i> ₄

Start state is *q*₁

$F = \{q_1, q_4\}$

Resultado

3 de 3

We write formal definitions, using definition 1.5.

< Exercício 1

Avaliar esta solução



Exercício 3 >