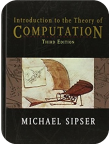


Exercício 26

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Introduction to the Theory of Computation

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Solução

Certificado

Passo 1

1 de 2

Transducer  $T_1$  has two states,  $q_1$  and  $q_2$  namely, so we have  $Q = \{q_1, q_2\}$ . Input symbols are the first of two appearing on arrows, so  $\Sigma = \{0, 1, 2\}$ . Output symbols are second ones, i.e.  $\Gamma = \{0, 1\}$ . Initial state is  $q_1$ . Transition function  $\delta$  is given in the table.

	0	1	2
$q_1$	$(q_1, 0)$	$(q_1, 1)$	$(q_2, 1)$
$q_2$	$(q_1, 0)$	$(q_2, 1)$	$(q_2, 1)$

Analogously , we conclude:

$$T_2 = (\{q_1, q_2, q_3\}, \{a, b\}, \{0, 1\}, \delta, q_1),$$

where  $\delta$  is given in table.

	a	b
$q_1$	$(q_2, 1)$	$(q_3, 1)$
$q_2$	$(q_3, 1)$	$(q_1, 0)$
$q_3$	$(q_1, 0)$	$(q_2, 1)$

Resultado

2 de 2

We provide formal defintions.

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**Avaliar esta solução**



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