Exercício 1

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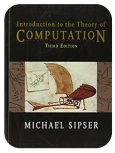

Introduction to the Theory of Computation

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Solução Certificado

Passo 1

We follow the diagram for TM M_2 from *FIGURE 3.8.*

Part a.

Sequence of configurations is:

$$q_1\mathtt{0},\ \sqcup q_2\sqcup,\ \sqcup\sqcup q_{\text{accept}}\sqcup.$$

Part b.

$q_1\mathtt{00}$	$q_5\sqcup\mathtt{x}\sqcup$
$\sqcup q_2\mathtt{0}$	$\sqcup q_2\mathtt{x}\sqcup$
$\sqcup\mathtt{x}q_3\sqcup$	$\sqcup\mathtt{x}q_2\sqcup$
$\sqcup q_5\mathtt{x}\sqcup$	$\sqcup\mathtt{x}\sqcup q_{\text{accept}}$

Part c.

$$\begin{array}{l} q_1\mathtt{000} \\ \sqcup q_2\mathtt{00} \\ \sqcup\mathtt{x}q_3\mathtt{0} \\ \sqcup\mathtt{x0}q_4\sqcup \\ \sqcup\mathtt{x0}\sqcup q_{\text{reject}} \end{array}$$

Part d.

$q_1\mathtt{000000}$	$\sqcup\mathtt{x0x0}q_4\mathtt{0}$	$\sqcup\mathtt{x}q_5\mathtt{0x0x}\sqcup$	$\sqcup\mathtt{xx}q_3\mathtt{0x}\sqcup$
$\sqcup q_2\mathtt{00000}$	$\sqcup\mathtt{x0x0x}q_3\sqcup$	$\sqcup q_5\mathtt{x0x0x}\sqcup$	$\sqcup\mathtt{xxx}q_3\mathtt{0x}\sqcup$
$\sqcup\mathtt{x}q_3\mathtt{0000}$	$\sqcup\mathtt{x0x0}q_5\mathtt{x}\sqcup$	$q_5\sqcup\mathtt{x0x0x}\sqcup$	$\sqcup\mathtt{xxx0}q_4\mathtt{x}\sqcup$
$\sqcup\mathtt{x0}q_4\mathtt{000}$	$\sqcup\mathtt{x0x}q_5\mathtt{0x}\sqcup$	$\sqcup q_2\mathtt{x0x0x}\sqcup$	$\sqcup\mathtt{xxx0x}q_4\sqcup$
$\sqcup\mathtt{x0x}q_3\mathtt{00}$	$\sqcup\mathtt{x0}q_5\mathtt{x0x}\sqcup$	$\sqcup\mathtt{x}q_2\mathtt{0x0x}\sqcup$	$\sqcup\mathtt{xxx0x}\sqcup q_{\text{reject}}\sqcup$

Resultado 2 de 2

We list sequences of configurations, following the diagram from *FIGURE 3.8*.

‹ Exercício 59

Avaliar esta solução

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Exercício 2 ›