

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

Exercício 8

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Introduction to the Theory of Computation

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With each domino in this particular PCP instance, a step of the TM's computation is simulated (or represented). So, if we allow moves from the left-hand end of the tape to the left, we have to add dominos

$$\left[\begin{array}{c} \#qa \\ \#rb \end{array} \right]$$

for every state $q, r \in Q$ and $a, b \in \Gamma$, where $\delta(q, a) = (r, b, L)$.

First domino must also be replaced, in order to handle the case when the head moves to the left at the beginning of the computation. So, the first domino becomes

$$\left[\begin{array}{c} \# \\ \#\#q_0w_1w_2 \cdots w_n \end{array} \right].$$

Resultado

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We need to add dominoes which simulate the new move.

Avaliar esta solução[< Exercício 7](#)[Exercício 9 >](#)

