Exercício 5

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Introduction to the Theory of Computation

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Solução ✔ Certificado

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Part a.

Sure, since we always have $\sqcup \in \Gamma$, and any symbol from Γ may appear on the tape, any machine can type $\sqcup$ on its tape.

Part b.

Not quite, since we require input alphabet Σ not to contain blank symbol $\sqcup$, and on the other hand we require $\sqcup \in \Gamma$.

Part c.

This seems like no at first glance, since machine must choose right or left move. However, there is one situation where we make an exception. That is the borderline situation when we are on left-hand end of tape, but want to move left still. Then we said that head of machine just stays on the same place.

Part d.

In definition we require accepting and rejecting state to be distinct, hence there are at least 2 states in any Turing machine.

Resultado   2 de 2

Look at **Definition 3.3**.

Avaliar esta solução

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