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Exercício 16

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Introduction to the Theory of Computation

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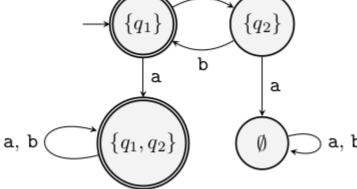
Solução 🕏 Certificado

Passo 1 1 de 5

Part a.

In this case there are no ε -arrows, so we follow the first part of the proof of **Theorem 1.39**. There will be $2^2=4$ states in the new machine, one for each subset of set $Q=\{q_1,q_2\}$. Initial state is $\{q_1\}$, and set of accepting state is $\{\{q_1\},\{q_1,q_2\}\}$. We compute the transition function by collecting all states which can be reached from given subset of states. DFA is given below.

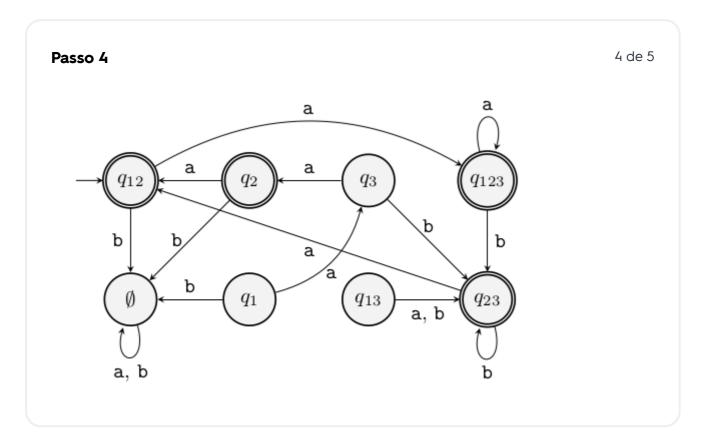
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Part b.

Here we follow the same construction as previously, but at the end add ε -transitions. So the initial state is not $\{q_1\}$, but $\{q_1,q_2\}$. (We write q with multiple indexes for subset of states).



Resultado 5 de 5

We follow the construction in proof of **Theorem 1.39** closely.

Avaliar esta solução

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