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

Exercício 19

Capítulo 1, Página 86





Introduction to the Theory of Computation

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Índice

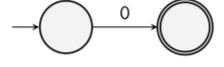
Solução 🕏 Certificado

Passo 1 1 de 16

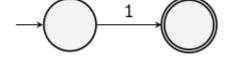
Part a.

Lemma~1.55 instructs us to first build machines which accept simplest languages $\{0\}$ and $\{1\}$.



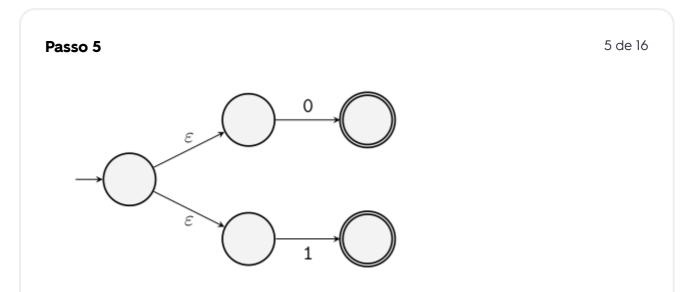


Passo 3 3 de 16



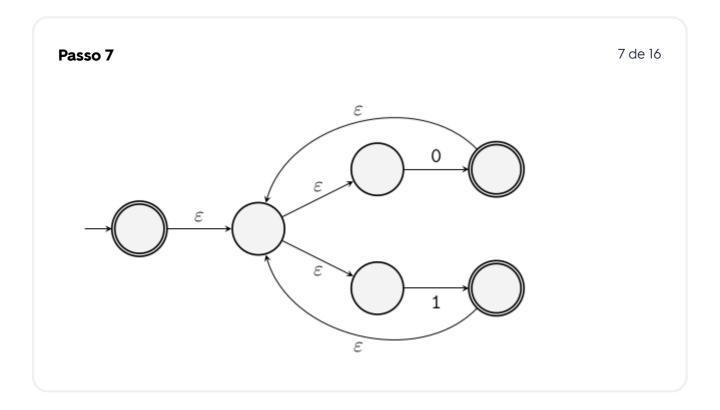
Passo 4 4 de 16

Then we combine these two machines to obtain union of these simple languages, as described in $\bf Theorem~1.45$.



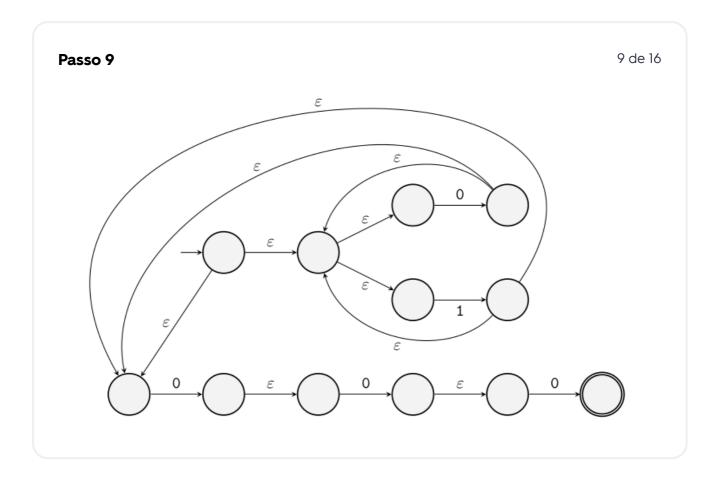
Passo 6 6 de 16

Now we use construction for star of language, given in **Theorem 1.49**.



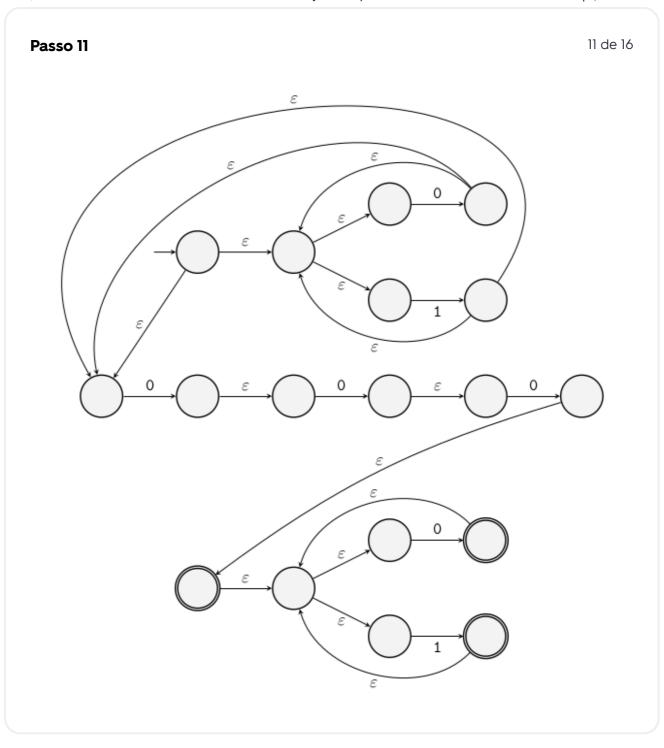
Passo 8 8 de 16

Concatenating (described in Theorem~1.47) three times with machine which recognizes language $\{0\}$ yields following machine.



Passo 10 10 de 16

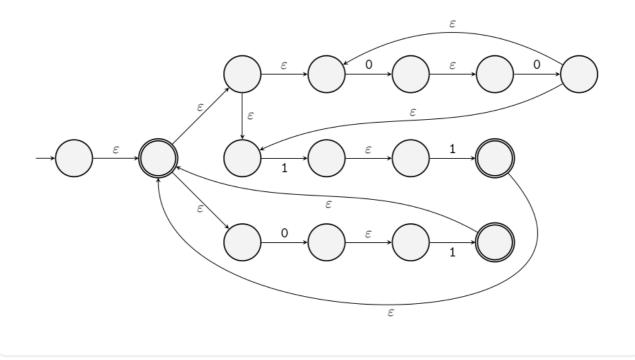
Finally we concatenate with previous machine.





Passo 13 13 de 16

Here we present only the final diagram.



Passo 14 14 de 16

Part c.

This is quite funny.

Passo 15 15 de 16



Resultado 16 de 16

 $Lemma~1.55\!\!\setminus\!$ is quite pleasent to follow, we describe the procedure in part a.

Avaliar esta solução

< Exercício 18

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Exercício 20 >

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