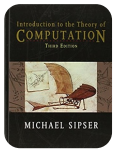
Exercício 17

Capítulo 2, Página 156



Introduction to the Theory of Computation

ISBN: 9781133187790

Índice

Solução

Certificado

Passo 1

1 de 2

It is trivial to prove that languages $\{a\}$, for $a \in \Sigma$, ε and $\emptyset$ are context-free: grammars are $S \to a$, $S \to \varepsilon$ and $S \to S$ respectively.

Now previous *Exercise* shows that class of context-free languages is closed under all three regular operations, which is the only way to create regular expressions. Hence any regular expression can be captured using context-free grammar, which proves that any regular language is also a CFL.

Resultado

2 de 2

We need to prove that initial languages are context-free, which is trivial. Then previous *Exercise* does the job.

‹ Exercício 16

Avaliar esta solução

Exercício 18 ›