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## Exercício 30

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Introduction to the Theory of Computation

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[Índice](#)**Solução**  Certificado

### Passo 1

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Well, look at *Example 1.73*. There are three cases there, with only the third one causing the problems for language  $0^*1^*$ , since we do not care about the relative number of 0's and 1's, but only about their relative position.

But for string  $\texttt{\$}\{0\}^p\{1\}^p\texttt{\$}$ , we have that  $\text{vert } x$

### Resultado

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Use third condition of pumping lemma.

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