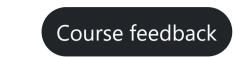
CS-C2160 - Theory of Computation, Lecture, 11.1.2022-11.4.2022

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Astra exercises



Resources

9. Voluntary problem set: Context-free grammars

These problems are completely **voluntary** (no bonus points given, either) that one may solve, for instance, before the exam to practise the constructions.

Exercise description My submissions 1 / 50 v

« 8. Voluntary problem set: Regular expressions

Course overview

9.2 Grammar for a language »

Grammar for a language

Consider the language $L = \{w \in \{a, b, c\}^* \mid w \text{ is a palindrome}\}.$

Give a context-free grammar that generates the language.

Enter the grammar in the space below, one production on each line. Use this syntax:

- production: variable -> string1 | string2 ... | stringn
- variables: capital letters A,B,...,Z
- terminals: lower case letters a,b,...,z and numbers 0,1,...,9
- empty string: _ (the underscore symbol)
- start symbol: the first variable in the grammar

For instance, the grammar

A -> aAa | B B -> bB | _

A?

generates the language $\{a^nb^ka^n\mid n\geq 0 \text{ and } k\geq 0\}.$

1 / 50

Deadline

Earned points

Exercise info

Exercise category

Voluntary exercises

Your submissions

1/1

Sat, 31 Dec 2022 23:59:00 +0200

Total number of submitters

15

Your solution: Submit!

« 8. Voluntary problem set: Regular expressions

Course overview

9.2 Grammar for a language »

Previous activity

■ 8. Voluntary problem set: Regular expressions

Next activity

Earlier lecture slides (2021) ►



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