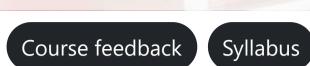
Resources

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

This course space end date is set to 16.12.2022 **Search Courses: CS-C2160**

A?

/ departm... / Sections / compute... / 9. volu... / 9.4 gra...



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.

« 9.3 Grammar for a language Course overview Exercise description My submissions 3 / 50 ~ **Grammar for a language** Consider the language $L = \{w \in \{a,b\}^* \mid w \text{ contains at least as many } a \text{'s as } b \text{'s} \}.$ 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 | _ generates the language $\{a^nb^ka^n\mid n\geq 0 \text{ and } k\geq 0\}.$ Your solution:

9.5 Showing that a grammar is ambiguous »

Astra exercises

Earned points

1 / 1

Exercise info

Exercise category

Voluntary exercises **Your submissions**

3 / 50

Deadline

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

Total number of submitters

« 9.3 Grammar for a language

Submit!

Course overview

9.5 Showing that a grammar is ambiguous »

Previous activity

■ 8. Voluntary problem set: Regular expressions

Next activity

Earlier lecture slides (2021) ►

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