



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](#)

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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** ▾

Points 1/1

Your task was to give a context-free grammar describing the language $L = \{w \in \{a, b\}^* \mid w \text{ contains at least as many } a\text{'s as } b\text{'s}\}$.

Your solution is:

S → aS | aSbS | bSaS | _

Your solution passed all the tests and is thus probably correct.

[9.5 Showing that a grammar is ambiguous »](#)

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
11

Submission info

Submitted on
Thu, 10 Feb 2022 16:03:18 +0200

Status
Ready

Grade
1 / 1

Submitters
Nguyen Binh (887799)

[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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