

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.

« 9.1 Grammar for a language

Course overview

9.3 Grammar for a language »

Exercise description

My submissions

2 / 50

▼

Points 1/1

Your task was to give a context-free grammar describing the language
 $L = \{w \in \{0, 1\}^* \mid \text{the number of 1s in } w \text{ is divisible by 3 (possibly zero)}\}.$

Your solution is:

S -> 0S | 1A | _
A -> 0A | 1B
B -> 0B | 1C
C -> 0C | 1A | _

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

Earned points

1 / 1

Exercise info

Exercise category

Voluntary exercises

Your submissions

2 / 50

Deadline

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

Total number of submitters

15

Submission info

Submitted on

Thu, 10 Feb 2022 15:43:07 +0200

Status

Ready

Grade

1 / 1

Submitters

Nguyen Binh (887799)

« 9.1 Grammar for a language

Course overview

9.3 Grammar for a language »

Previous activity

◀ 8. Voluntary problem set: Regular expressions

Next activity

Earlier lecture slides (2021) ▶



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