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.

« 9.6 Showing that a grammar is ambiguous   Course overview   9.8 Chomsky normal form for a grammar »

Exercise description   My submissions **2 / 50** ⌄

Points 1/1

Your task was to give a context-free grammar *in Chomsky normal-form* (CNF) describing the same language as the grammar

```
S -> Tbb
T -> aTb | V
V -> aU | bU
U -> aW | bW
W -> a | b
```

Your solution is:

```
S -> TC
C -> BB
A -> a
B -> b
T -> XB | AU | BU
X -> AT
U -> AW | BW
W -> a | b
```

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
16

Submission info

Submitted on
Thu, 10 Feb 2022 16:14:13 +0200

Status
Ready

Grade
1 / 1

Submitters
Nguyen Binh (887799)

« 9.6 Showing that a grammar is ambiguous   Course overview   9.8 Chomsky normal form for a grammar »

Previous activity
◄ 8. Voluntary problem set: Regular expressions

Next activity
Earlier lecture slides (2021) ►

Nguyen Binh (Log out)