

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.

[« 9.4 Grammar for a language](#)

[Course overview](#)

Exercise description

My submissions **1 / 50** ▾

Showing that a grammar is ambiguous

Consider the context-free grammar:

```
S -> TS | T
T -> (L)
L -> L;L | a
```

Show that the grammar is ambiguous by giving two *different* parse trees for some word *w* produced by the grammar (you have to figure out a suitable word by yourself as well).

Give your answer here. Click on parse tree nodes to expand and collapse them.

Parse tree 1:

S

Parse tree 2:

S

Submit!

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

Earned points

1 / 1

Exercise info

Exercise category
Voluntary exercises

Your submissions
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Deadline
Sat, 31 Dec 2022 23:59:00 +0200

Total number of submitters
8

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Previous activity

◀ 8. Voluntary problem set: Regular expressions

Next activity

Earlier lecture slides (2021) ▶



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