



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](#)

/ departm... / Sections / compute... / 9. volu... / 9.6 sho...

? Astra exercises Forums Resources

Course feedback Syllabus

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.

« 9.5 Showing that a grammar is ambiguous Course overview

Exercise description My submissions 6 / 50

Showing that a grammar is ambiguous

Consider the context-free grammar:

```
S -> 0S0 | 1S1 | T
T -> ε | 1T
```

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!

« 9.5 Showing that a grammar is ambiguous Course overview

9.7 Chomsky normal form for a grammar »

Earned points

1 / 1



Exercise info

Exercise category
Voluntary exercises

Your submissions
6 / 50

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

Total number of submitters
10

Previous activity

◀ 8. Voluntary problem set: Regular expressions

Next activity

Earlier lecture slides (2021) ▶



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