

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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Course feedback

Syllabus

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5. Compulsory problem set: Context-free grammars

« 5.5 Grammar for a language

Course overview

Exercise description

My submissions **1 / 50** ▾

Showing that a grammar is ambiguous

Consider the context-free grammar:

S -> TC | AU
T -> aTb | ab
C -> cC | c
A -> aA | a
U -> bUc | bc

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!

5.7 Chomsky normal form for a grammar »

Earned points

1 / 1

Exercise info

Exercise category

Compulsory exercises

Your submissions

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Points required to pass

1

Deadline

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

Total number of submitters

154

« 5.5 Grammar for a language

Course overview

5.7 Chomsky normal form for a grammar »

Previous activity

◀ 4. Compulsory problem set: Regular expressions

Next activity

6. Voluntary problem set: Some small brain teasers ▶

A!

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