Resources

Syllabus

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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Α?



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 ~ Chomsky normal form for a grammar		Earned points
Consider the context-free grammar:		1/1
S -> Tbb T -> aTb V V -> aU bU U -> aW bW W -> a b		Exercise info Exercise category Voluntary exercises
Give a context-free grammar <i>in Chomsky normal form</i> that generates the san Enter the grammar in the space below, one production on each line. Use this • production: variable -> string1 string2 stringn • variables: capital letters A,B,,Z • terminals: lower case letters a,b,,z and numbers 0,1,,9 • empty string: _ (the underscore symbol) • start symbol: the first variable in the grammar	language. Your submissions	
For instance, the grammar $\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Your solution:		

9.8 Chomsky normal form for a grammar »

« 9.6 Showing that a grammar is ambiguous

Submit!

Previous activity ■ 8. Voluntary problem set: Regular expressions **Next activity**

Earlier lecture slides (2021) ►



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