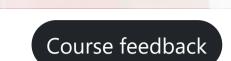
Astra exercises

This course space end date is set to 16.12.2022 **Search Courses: CS-C2160**

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Syllabus

Resources

5. Compulsory problem set: Context-free grammars

« 5.3 Grammar for a language Course overview Exercise description My submissions 3 / 50 ~ **Grammar for a language** Consider the language $L = \{w \in \{a,b\}^* \mid w \text{ is of the form } uvu^R, \text{ where } u \text{ and } v \text{ are any strings in } \{a,b\}^*\}.$ Give a context-free grammar that generates the language. Enter the grammar in the space below, one production on each line. Use this syntax: • 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 For instance, the grammar A -> aAa | B B -> bB | _ generates the language $\{a^nb^ka^n\mid n\geq 0 \text{ and } k\geq 0\}.$ Your solution:

5.5 Grammar for a language »

Earned points

Exercise info

Exercise category

Compulsory exercises

Your submissions

3 / 50

Points required to pass

Deadline

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

Total number of submitters

155

« 5.3 Grammar for a language

Submit!

Course overview

5.5 Grammar for a language »

Previous activity

◄ 4. Compulsory problem set: Regular expressions

Next activity

6. Voluntary problem set: Some small brain teasers ►



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