Astra exercises

Earned points

Exercise info

Exercise category

Your submissions

2 / 50

Deadline

156

Compulsory exercises

Points required to pass

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

6. Voluntary problem set: Some small brain teasers ►

Total number of submitters

Resources

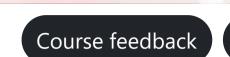


This course space end date is set to 16.12.2022 **Search Courses: CS-C2160**

/ departm... / Sections / compute... / 5. comp... / 5.3 gra...

« 5.2 Parse tree for a word in a grammar

A?



5.4 Grammar for a language »

Syllabus

5. Compulsory problem set: Context-free grammars

My submissions 2 / 50 ~ Exercise description **Grammar for a language** Consider the language $L=\{w\in\{a,b\}^*\mid w \text{ is of the form } xby, \text{ where } |x|>|y|\}.$

Enter the grammar in the space below, one production on each line. Use this syntax:

• production: variable -> string1 | string2 ... | stringn

Give a context-free grammar that generates the language.

- 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: Submit!

« 5.2 Parse tree for a word in a grammar

Course overview

Course overview

Next activity

5.4 Grammar for a language »

Previous activity

◄ 4. Compulsory problem set: Regular expressions



Tuki / Support Opiskelijoille / Students

- MyCourses instructions for students
- email: mycourses(at)aalto.fi

Opettajille / Teachers

- MyCourses help
- MyTeaching Support form

Palvelusta

- MyCourses rekisteriseloste
- Tietosuojailmoitus
- Palvelukuvaus
- Saavutettavuusseloste

About service

- MyCourses protection of privacy
- Privacy notice
- Service description
- Accessibility summary

Service

- MyCourses registerbeskrivining
- Dataskyddsmeddelande
- Beskrivining av tjänsten
- Sammanfattning av tillgängligheten





