



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... / 4. comp... / 4.3 fro...

4. Compulsory problem set: Regular expressions

« 4.2 From regular expression to automaton

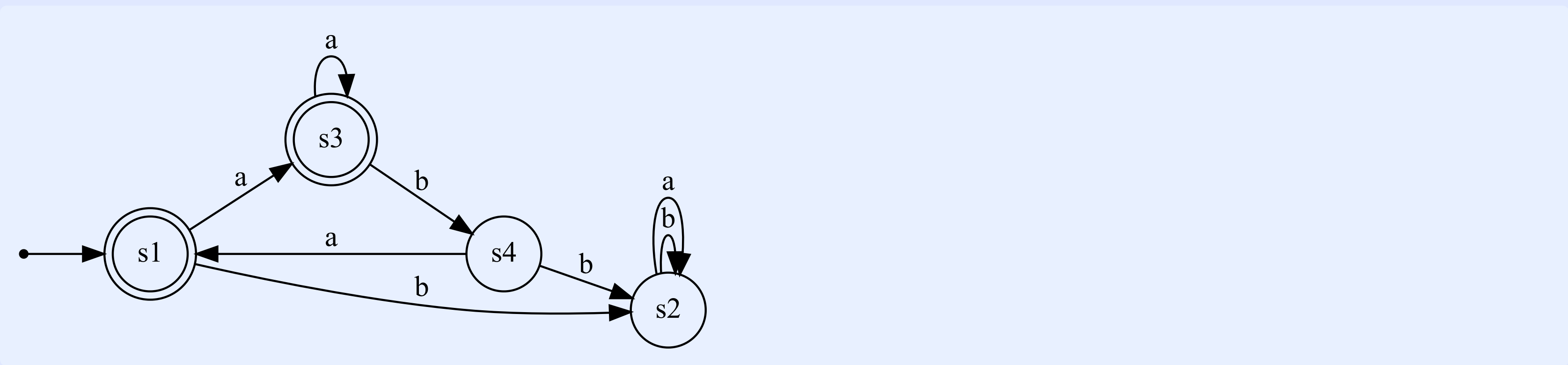
Course overview

Exercise description

My submissions **2 / 50** ▾

From automaton to regular expression

Consider the finite automaton



Give a regular expression that describes the language recognised by the automaton.

The syntax for regular expressions is:

- alphabet: $a, b, \dots, z, 0, 1, \dots, 9$
- parentheses: $(,)$
- union: $|$ (the vertical stroke symbol)
- empty string: $_$ (the underscore symbol) or ϵ (the greek epsilon)
- empty set: $@$ (the 'at'-symbol) or \emptyset (AltGr + Shift + ö on some keyboards)
- Kleene star: $*$ (the asterisk symbol)

For example, the regular expression $_|aa(bc)^*$ describes the language $\{\epsilon, aa, aabc, aabcbc, aabcbcbc, \dots\}$ over the alphabet $\{a, b, c\}$.

Your solution:

Submit!

« 4.2 From regular expression to automaton

Course overview

4.4 From regular expression to minimal automaton »

Earned points

1 / 1

Exercise info

Exercise category

Compulsory exercises

Your submissions

2 / 50

Points required to pass

1

Deadline

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

Total number of submitters

156

Previous activity

◀ 3. Compulsory problem set: Non-deterministic finite automata

Next activity

5. Compulsory problem set: Context-free grammars ▶



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 registerbeskrivning
- Dataskyddsmeddelande
- Beskrivning av tjänsten
- Sammanfattning av tillgängligheten

