



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

8. Voluntary problem set: Regular expressions

These problems are completely **voluntary** (no bonus points given, either) that one may solve, for instance, before the exam to practise the constructions.

« 8.7 From regular expression to minimal automaton

Course overview

9. Voluntary problem set: Context-free grammars »

Exercise description

My submissions **0 / 50** ▾

From regular expression to minimal automaton

Consider the regular expression $(\epsilon|0|1)^*1(0|1)^*$.

Design a deterministic finite automaton (DFA) *with a minimal number of states* that recognises the language described by the expression.

If your automaton contains states that have no outgoing transition for some symbol, an additional, non-accepting "sink state" with self-loops will be added automatically in the grading phase.

Reset

Deterministic:
yes

- Click on the canvas to add new states.
- You can also move existing states by dragging them.
- Click on transition labels to edit them.

Submit!

Earned points

0 / 1



Exercise info

Exercise category
Voluntary exercises

Your submissions
0 / 50

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

Total number of submitters
4

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Previous activity

◀ 7. Voluntary problem set: Finite automata

Next activity

9. Voluntary problem set: Context-free grammars ▶



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