



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

4. Compulsory problem set: Regular expressions

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Exercise description

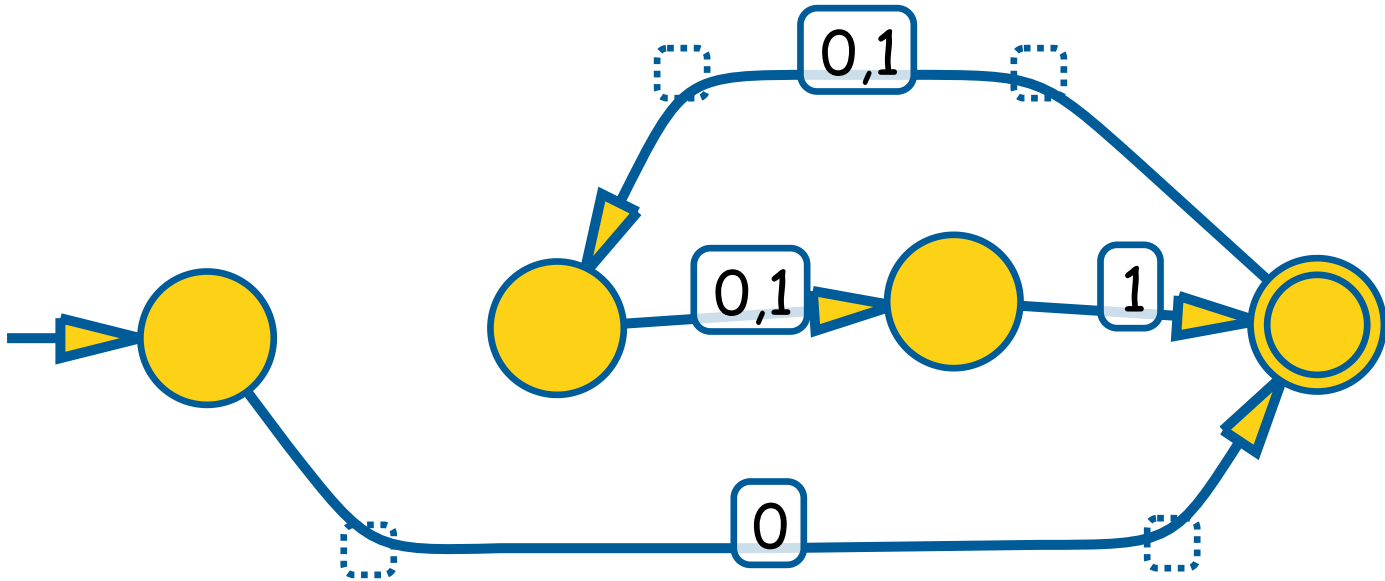
My submissions **3 / 50** ▾

From regular expression to minimal automaton

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

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!

[5. Compulsory problem set: Context-free grammars »](#)

Earned points

1 / 1

Exercise info

Exercise category
Compulsory exercises

Your submissions
3 / 50

Points required to pass
1

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

Total number of submitters
155

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Previous activity

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

Next activity

5. Compulsory problem set: Context-free grammars ▶



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