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**

7. Voluntary problem set: Finite automata

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

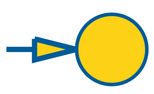
« 7.3 Designing a DFA for a language Course overview 7.5 Minimising a DFA »

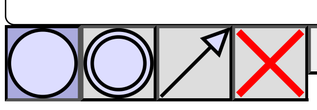
Exercise description My submissions **0 / 50**

Designing a DFA for a language

Consider the language $L = \{w \in \{0,1\}^* \mid \text{the number of 1's in } w \text{ is a multiple of 2 or 3 (possibly zero)}\}$.

Design a deterministic finite automaton (DFA) that recognises the language.





- 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
22

« 7.3 Designing a DFA for a language Course overview 7.5 Minimising a DFA »

Previous activity
◄ 6. Voluntary problem set: Some small brain teasers

Next activity
8. Voluntary problem set: Regular expressions ►