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.

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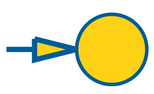
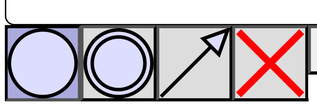
Exercise description My submissions **0 / 50**

Designing a DFA for a language

Consider the language $L = \{w \in \{0,1\}^* \mid w \text{ starts with } 0 \text{ and has even length, or starts with } 1 \text{ and has odd length}\}$.

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





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
24

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◄ 6. Voluntary problem set: Some small brain teasers

Next activity
8. Voluntary problem set: Regular expressions ►