



# CS-C2160 - Theory of Computation, Lecture, 11.1.2022-11.4.2022

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Course feedback

Syllabus

## 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.

« [7.4 Designing a DFA for a language](#)

[Course overview](#)

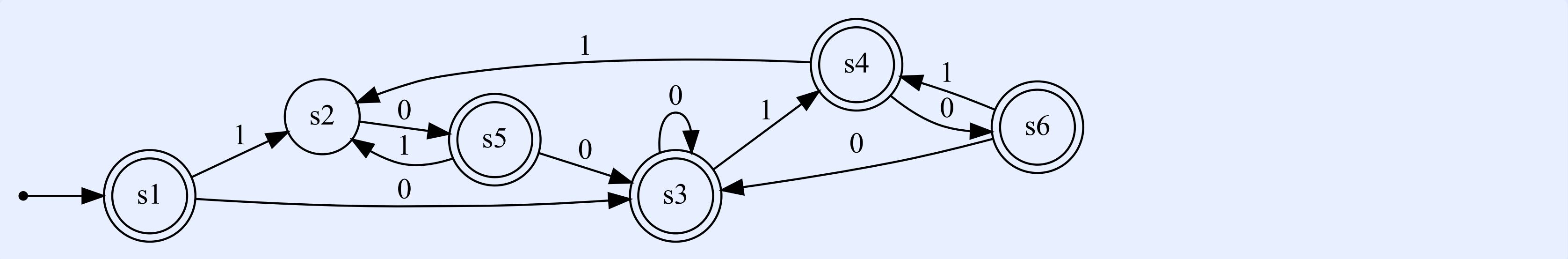
[7.6 Minimising a DFA](#) »

Exercise description

My submissions **0 / 50** ▼

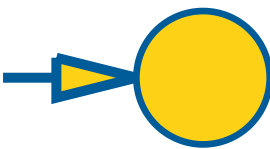
### Minimising a DFA

Consider the following automaton



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

If your automaton contains any 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**  
18

« [7.4 Designing a DFA for a language](#)

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[7.6 Minimising a DFA](#) »

#### Previous activity

◀ [6. Voluntary problem set: Some small brain teasers](#)

#### Next activity

[8. Voluntary problem set: Regular expressions](#) ▶



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