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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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.

Exercise description	My submissions **0 / 50** ⌄

From automaton to regular expression

Consider the finite automaton
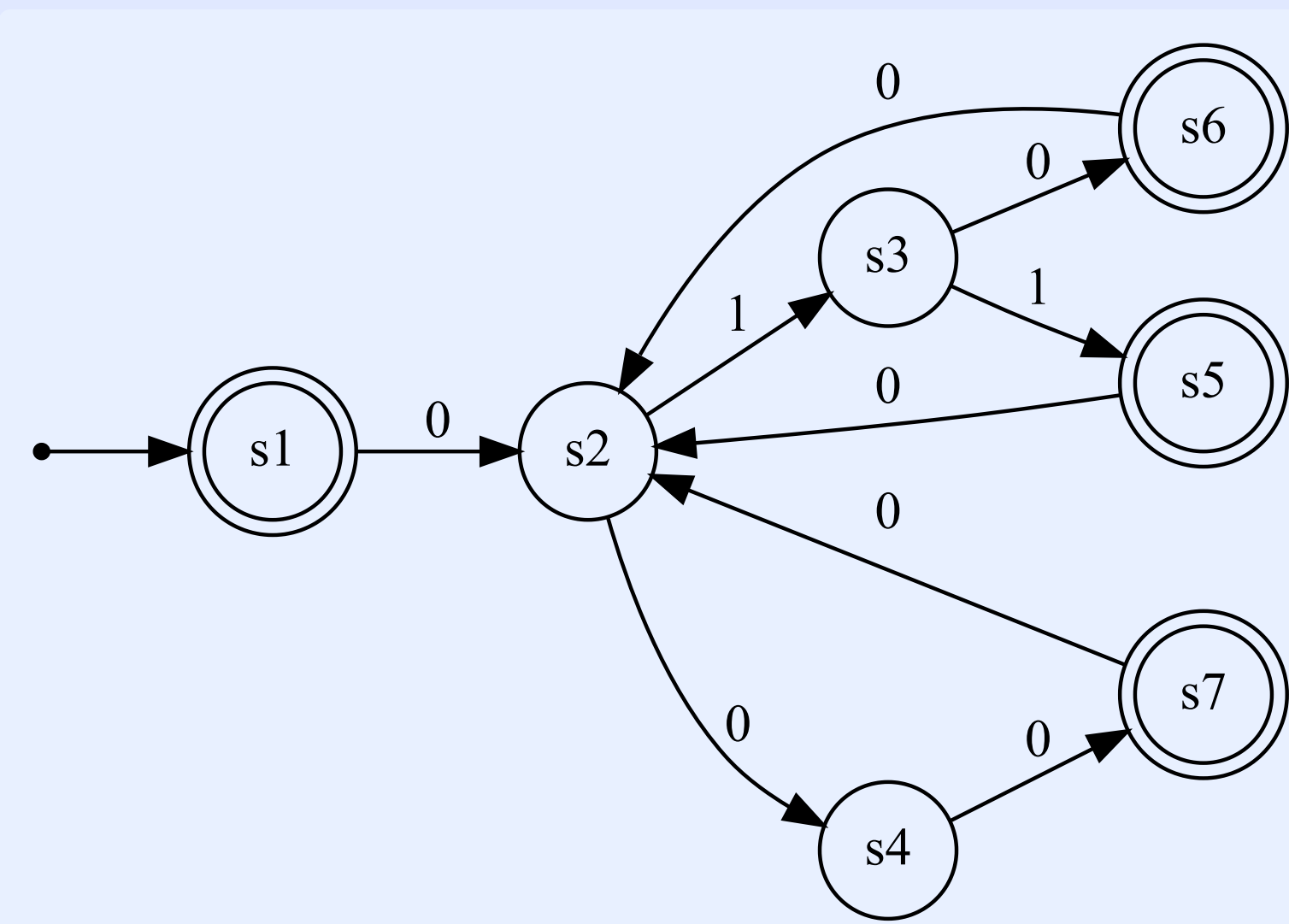
Give a regular expression that describes the language recognised by the automaton.

The syntax for regular expressions is:

- alphabet: a, b, ..., z, 0, 1, ..., 9
- parentheses: (,)
- union: | (the vertical stroke symbol)
- empty string: _ (the underscore symbol) or ε (the greek epsilon)
- empty set: @ (the 'at'-symbol) or ∅ (AltGr + Shift + ö on some keyboards)
- Kleene star: * (the asterisk symbol)

For example, the regular expression _|aa(bc)* describes the language $\{\varepsilon, aa, aabc, aabcbc, aabcbcbc, \dots\}$ over the alphabet $\{a, b, c\}$.

Your solution: [_____] 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
6

Previous activity	**Next activity**
◄ 7. Voluntary problem set: Finite automata	9. Voluntary problem set: Context-free grammars ►