4. Compulsory problem set: Regular expressions

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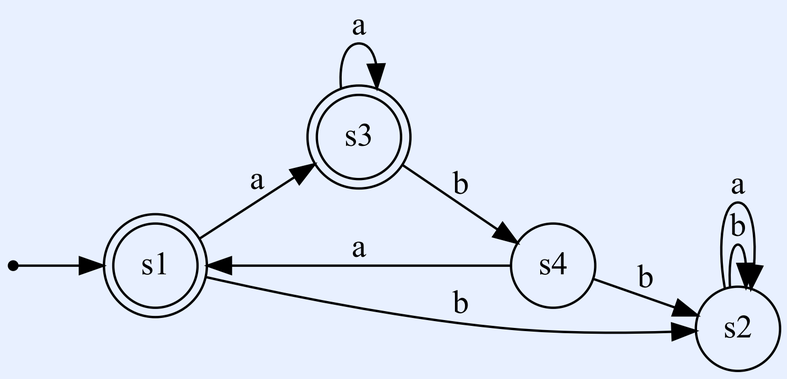
From automaton to regular expression

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!

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Earned points

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Exercise info

Exercise category
Compulsory exercises

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Points required to pass
1

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

Total number of submitters
156

Previous activity
◄ 3. Compulsory problem set: Non-deterministic finite automata

Next activity
5. Compulsory problem set: Context-free grammars ►