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

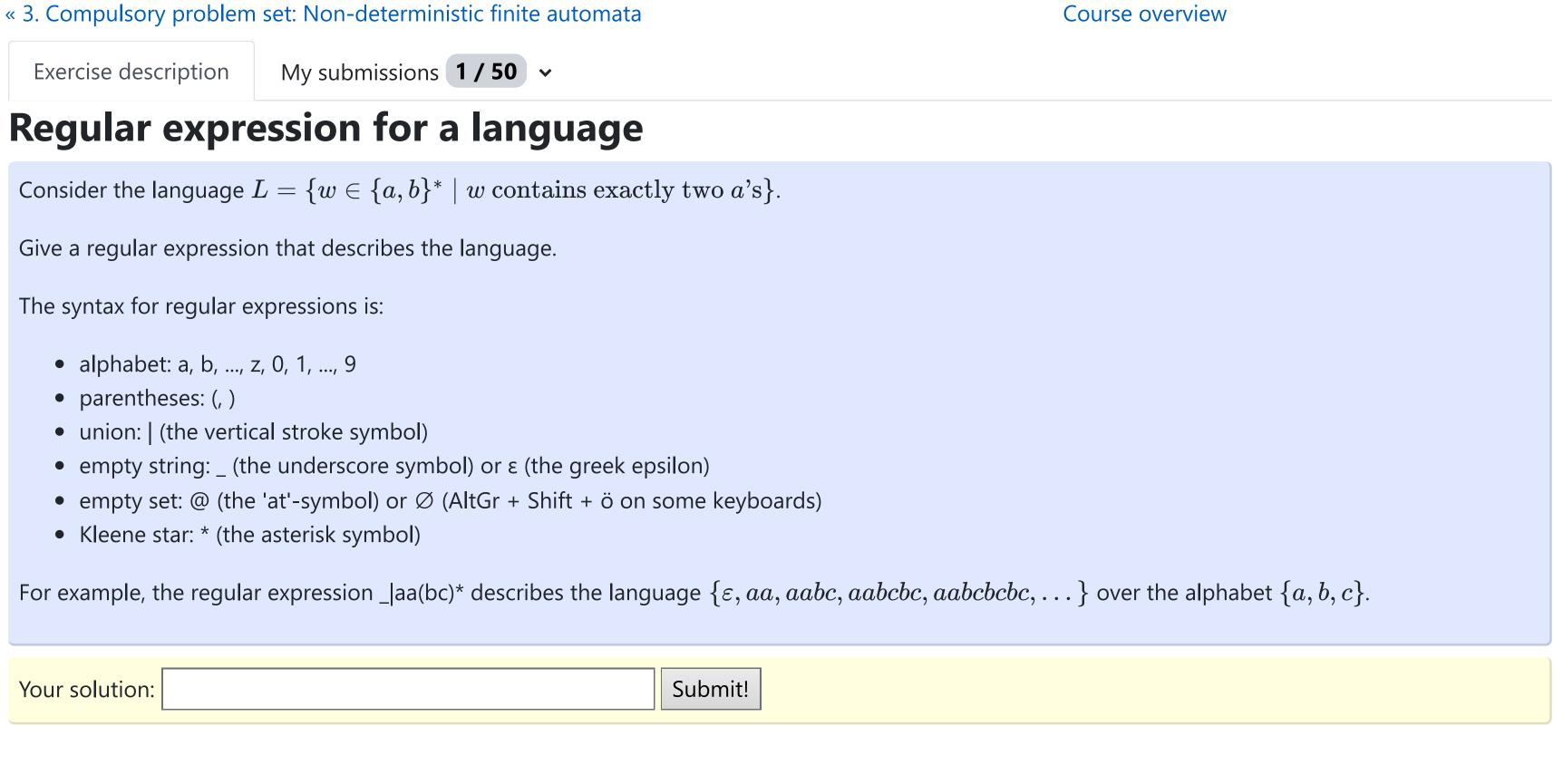This course space end date is set to 16.12.2022   **Search Courses: CS-C2160**

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4. Compulsory problem set: Regular expressions

« 3. Compulsory problem set: Non-deterministic finite automata   Course overview   4.2 From regular expression to automaton »

Exercise description   My submissions **1 / 50** ∨

Regular expression for a language

Consider the language $L = \{w \in \{a, b\}^* \mid w \text{ contains exactly two } a\text{'s}\}$.

Give a regular expression that describes the language.

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 $\{\varepsilon, aa, aabc, aabcbc, aabcbcbc, \ldots\}$ over the alphabet $\{a, b, c\}$.

Your solution: [_____] Submit!

Earned points

1 / 1

Exercise info

Exercise category
Compulsory exercises

Your submissions
1 / 50

Points required to pass
1

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

Total number of submitters
161

« 3. Compulsory problem set: Non-deterministic finite automata   Course overview   4.2 From regular expression to automaton »

Previous activity

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

Next activity

5. Compulsory problem set: Context-free grammars ►

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