

TD1 de compilation

Automates et expressions régulières

January 23, 2026

Exercice 1 : Language from an automaton

Write¹ a small deterministic automaton with 4-5 state and describe its recognised language.

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Exercice 2 : Determinising automata

Write a deterministic automaton recognising any sentence containing the chain “perpetrer” or the chain “rereperer”. Words may not be separated by space or even by anything.

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Exercice 3 : Regular expressions

Find a regular expression² and a deterministic automaton that characterise one³ of the complex lexems of [the list in annex](#).

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¹The automaton can be given by the TA

²Any syntax for regexp is accepted

³Can be given by the TA