

RACSO[syn](#) [Exams](#)[DFA](#) [CFG](#) Operations: [Reg](#), [CF](#) [PDA](#) Reductions: [K](#), [WP](#), [CFG](#), [NP](#), [SAT](#) ANTLR: [lex](#),

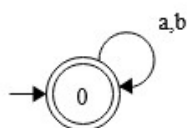
nil.casas.duatis

Exercise 38: Minimum DFA for $\{xy \in \{a, b\}^* \mid |x|_a = |y|_b\}$

Describe the minimum DFA that recognizes the words over $\{a, b\}$ that can be divided into two parts such that the number of a 's of the first part coincides with the number of b 's of the second part.

Authors: Guillem Godoy / *Documentation:***Date:** 2025-02-27 18:28:30**Verdict:** **accepted**

Correct automaton.



Fullscreen

Switch to text editor

Usage:

- **Add a state:** double-click on background.
- **Add a transition:** shift-drag from a state to a state.
- **Make a starting state:** shift-drag from background to a state.
- **Make an accepting state:** double-click on a state.

Automaton encoded in text:

```

a b
0 0 0 +

```

Submit

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