

RACSO

syn Exams

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

nil.casas.duatis

Exercise 36: Minimum DFA for $\{w \in \{a, b\}^* \mid \exists x, y, z : (w = xyz \wedge |y|_b = 3 + |y|_a)\}$

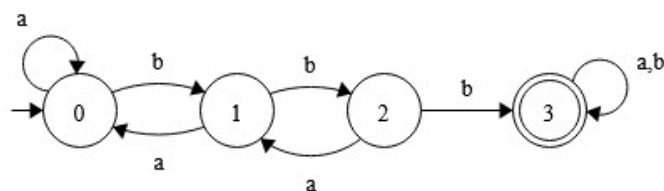
Describe the minimum DFA that recognizes the set of words over $\{a, b\}$ that have some subword with three more b 's than a 's.

Authors: Guillem Godoy / Documentation:

Date: 2025-02-27 18:16:53

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 1
1 0 2
2 1 3
3 3 3 +

```

Submit

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