RACSO DFA CFG Operations: Reg, CF PDA Reductions: K, WP, CFG, NP, SAT ANTLR: lex, syn Exams nil.casas.duatis

Exercise (11): Minimum DFA for
$$\{w\in\{a,b\}^*\mid \forall x,y: ((w=xy\wedge|x|\geq 3)\Rightarrow (|x|_a\in\dot{2}\vee|x|_b\notin\dot{2}))\}$$

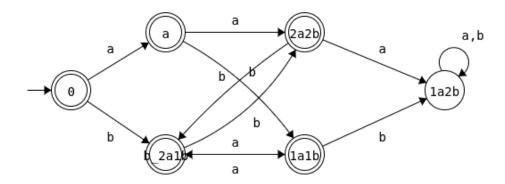
Describe the minimum DFA that recognizes the language of the words over $\{a,b\}$ such that every prefix of length greater than or equal to 3 has an even number of a's or an odd number of b's.

Authors: Guillem Godoy / Documentation:

Date: 2025-02-19 15:58:46

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		a	b_2a1b	+
1a1b		b_2a1b	1a2b	+
1a2b		1a2b	1a2b	
2a2b		1a2b	b_2a1b	+
а		2a2b	1a1b	+
b	2a1b	1a1b	2a2b	+

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