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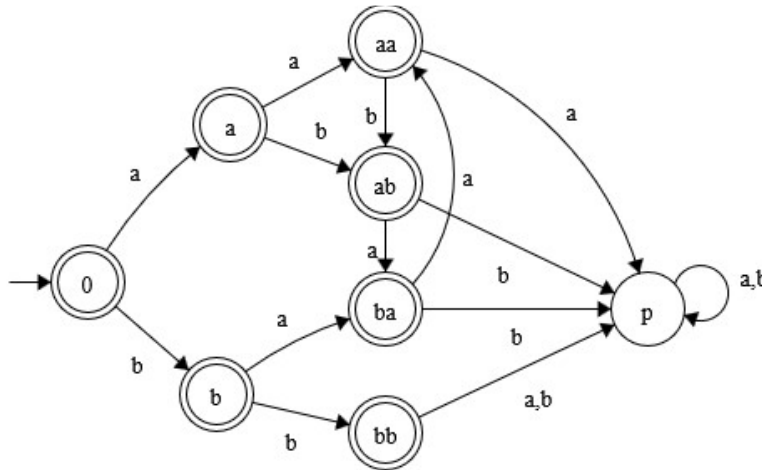
nil.casas.duatis

Exercise ‹26›: Minimum DFA for $\{w \in \{a,b\}^* \mid \forall x, y, z : ((w = xyz \wedge |y| = 3) \Rightarrow |y|_a = 2)\}$

Describe the minimum DFA that recognizes the words over $\{a, b\}$ such that every subword with length 3 has exactly two a's.

Authors: Guillem Godoy / *Documentation:*

Date: 2025-02-20 14:16:00
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  +
a   aa ab +
aa  p  ab +
ab  ba p  +
b   ba bb +
ba  aa p  +
bb  p  p  +
p   p  p
```

Submit   Previous submissions