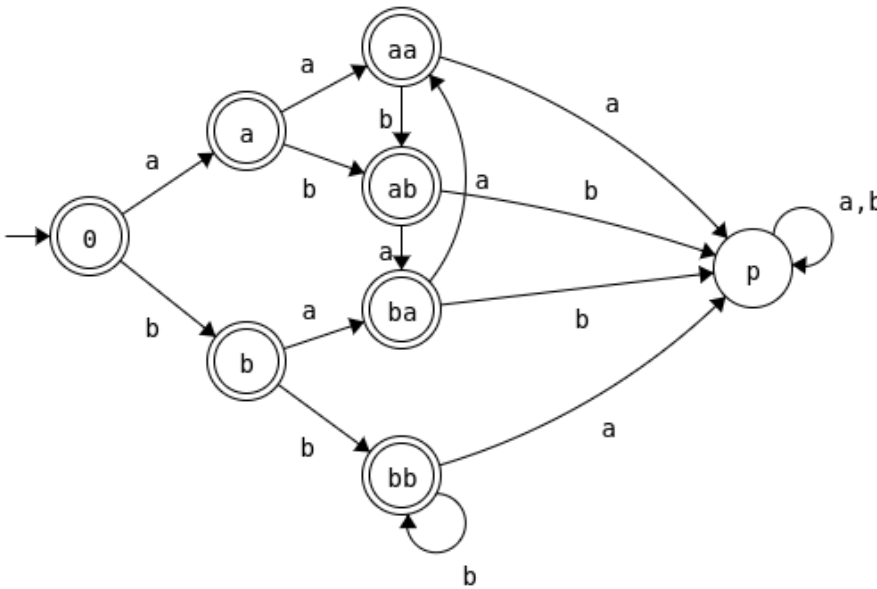


Exercise 12: Minimum DFA for $\{w \in \{a, b\}^* \mid \forall x, y, z : ((w = xyz \wedge |y| = 3) \Rightarrow (|y|_a \in 2 \vee |y|_b \notin 2))\}$

Describe the minimum DFA that recognizes the language of the words over $\{a, b\}$ whose subwords of length 3 have an even number of a 's or an odd number of b 's.

Authors: Guillem Godoy / Documentation:



Date: 2025-02-19 16:41:31

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 bb +
p p p

```

Submit

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