

**Exercise 35:** Minimum DFA for  $\{w \in \{a, b\}^* \mid |w|_{aba} + 1 = |w|_a\}$ 

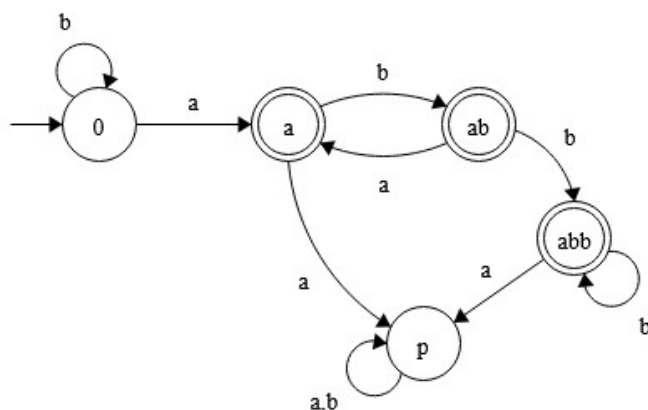
Describe the minimum DFA that recognizes the words over  $\{a, b\}$  such that the number of occurrences of  $aba$  is one less than the number of occurrences of  $a$ .

Authors: Guillem Godoy / Documentation:

Date: 2025-02-27 18:13:20

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  0
a  p  ab  +
ab a  abb +
abb p  abb +
p  p  p

```

Submit

[Previous submissions](#)