

Exercise 33: Minimum DFA for $\{w \in \{a, b\}^* \mid |w|_{aba} + 1 = |w|_b\}$

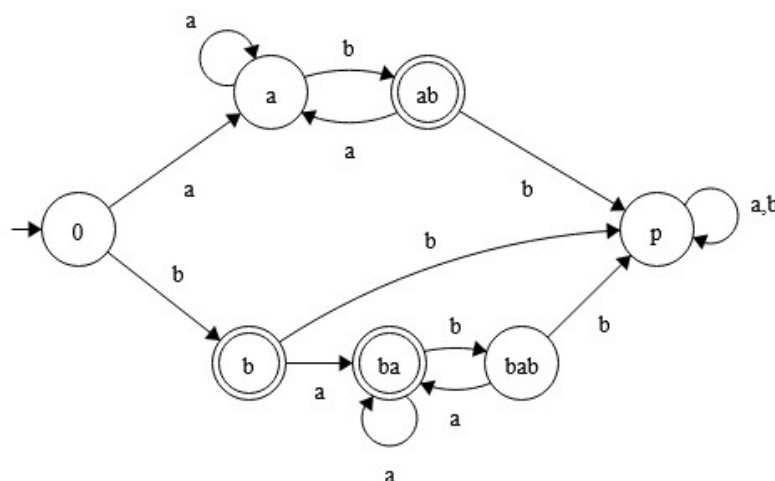
Describe the minimum DFA that recognizes the words over $\{a, b\}$ such that the number of occurrences of *aba* is one less than the number of occurrences of *b*.

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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 a ab
ab a p +
b ba p +
ba ba bab +
bab ba p
p p p

```

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