

**Exercise 30:** Minimum DFA for  $\{w \in \{a, b\}^* \mid |w|_{ab} = |w|_{ba}\}$ 

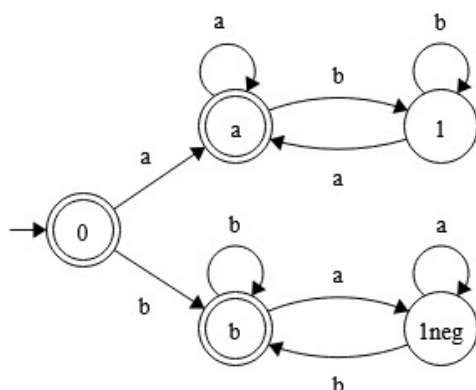
Describe the minimum DFA that recognizes the words over  $\{a, b\}$  which have the same number of occurrences of  $ab$  as occurrences of  $ba$ .

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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	+
1	a	1	
1neg	1neg	b	
a	a	1	+
b	1neg	b	+

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