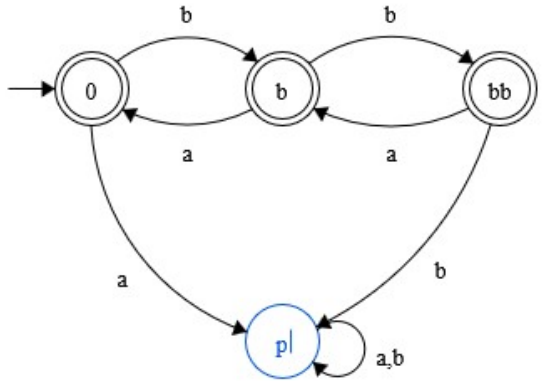
Exercise ‹27›: Minimum DFA for $\{w \in \{a,b\}^* \mid \forall x,y : ((w = xy \wedge |x| \notin \dot{2}) \Rightarrow |x|_b = 1 + |x|_a)\}$

Describe the minimum DFA that recognizes the words over $\{a, b\}$ whose prefixes of odd length have the propierty that their number of b's equals their number of a's plus 1.

Authors: Guillem Godoy / *Documentation:*

Date: 2025-02-20 14:25:24
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  p  b  +
b  0  bb +
bb b  p  +
p  p  p
```

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