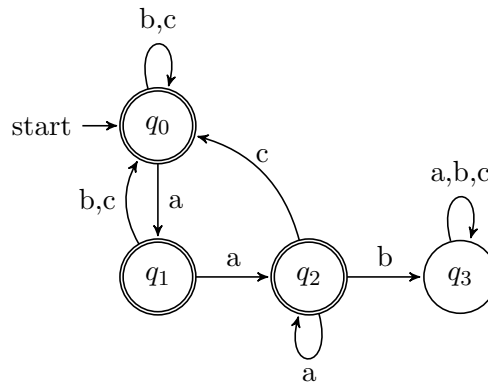# CSC236 winter 2020, quiz week 9_2

Question.

Give a state invariant for q_2 in the following DFA.

Solution.

For a string $w \in \{0, 1\}^*$, $\delta^*(q_0, w) = q_2$ if and only if w ends with 'aa' and does not contain the substring 'aab'.