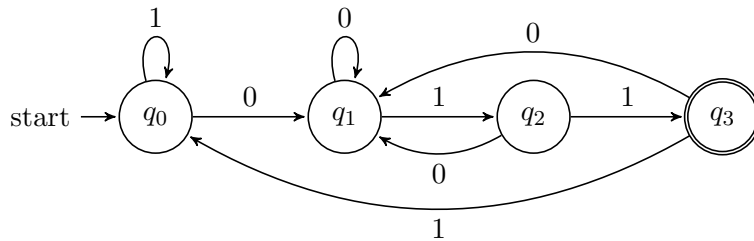


CSC236 winter 2020, quiz week 9<sub>6</sub>

**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 the string ends with '01'.