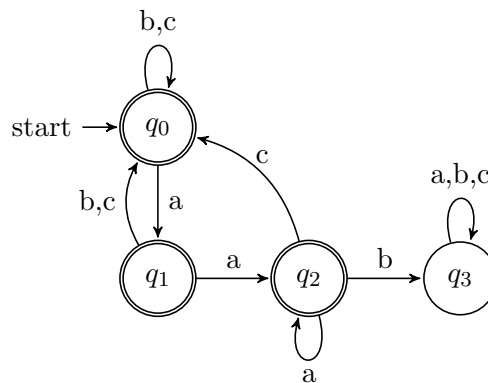# CSC236 winter 2020, quiz week $9_3$

**Question.**

In a sentence, describe the set of strings $w \in \{a, b, c\}^*$ which satisfy $\delta^*(q_0, w) = q_3$.



**Solution.**

A string $w \in \{a, b, c\}^*$ satisfies $\delta^*(q_0, w) = q_3$ if and only if $w$ contains the substring 'aab'.