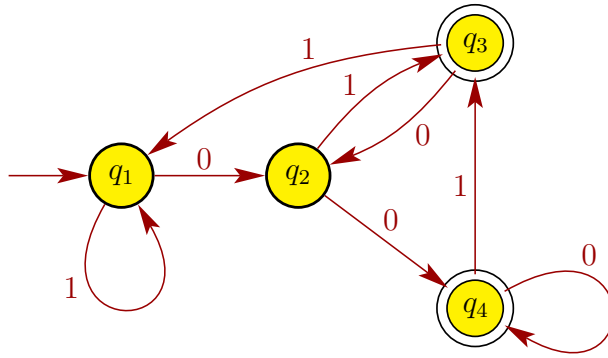


CS 341, Fall 2014
Solutions for Quiz 1, Day Section

1. (a) A is not closed under reversal. For example, $w = 01 \in A$, but $w^R = 10 \notin A$.
(b) A DFA for A is below:



- (c) Note that $C = \{w \in \Sigma^* \mid w = s01 \text{ for some } s \in \Sigma^*\}$, i.e., strings that end in 01 (and have length ≥ 2 , which automatically is true if a string ends in 01). Thus a string-order list of C is 01, 001, 101, 0001, 0101, 1001, \dots