Theory of Computation, Fall 2021
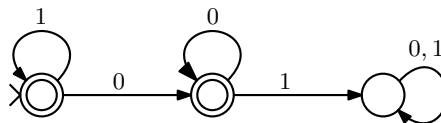## Assignment 2 Solutions

Exercises

Q1. The configurations are (q_1, e), (q_2, e) and (q_3, e). It accepts *abb*.
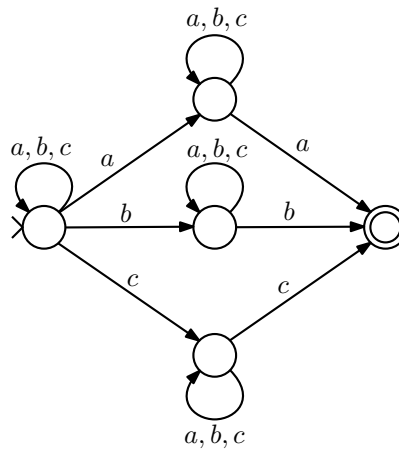
Q2. (a) $L(M') = \{w \in \Sigma^* : w \notin A\}$.

   (b) No. Consider the following N and N'. It is easy to see that a is accepted by both of N and N'.

Q3. The following DFA accepts L. Therefore, L is regular.

Q4. The following NFA accepts L.

Q5. The DFA we get is the following.