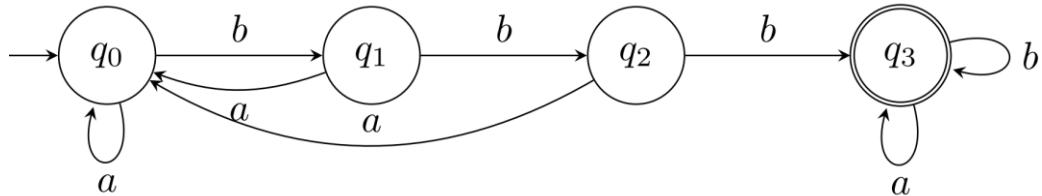


Exercise #1

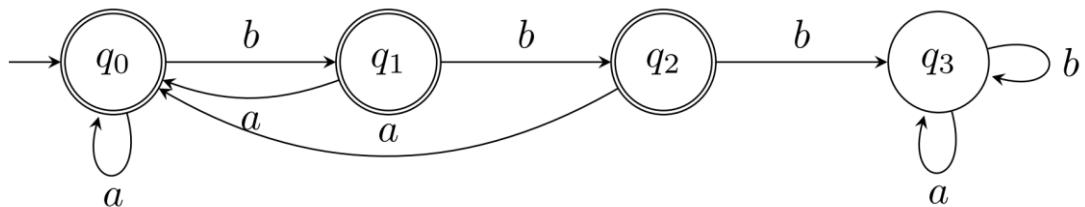
COSC 3106: Deterministic Finite Automaton

Problem 1: What language is recognized by the following DFA over the alphabet $\{a, b\}$?

Provide justification for your answer.



Problem 2: Construct a new DFA that accepts its complement? Then, verify your answer.



Problem 3: Define the language of the following DFA?

