Exercise 9
Given an automation $A$ with state $S = \{A, B, C, D\}$, alphabet $\Sigma = \{a, b\}$, initial states $I = \{A, C\}$, final state $F = \{B, D\}$, and transitions $T = \{(A, a, B), (A, a, C), (A, a, A), (A, a, D), (B, a, B), (B, a, A), (C, a, C), (C, a, D), (C, b, D), (D, b, D), (D, a, B)\}$. Draw the oracle automaton $\text{Oracle}(A)$.

Exercise 10
Given FA $A$ from Exercise 9, draw the optimized oracle-automaton $\text{Oracle}(A)$. Is $\text{Oracle}(A)$ complete? Justify your answer.

Exercise 11
Draw the I/O-automaton for FA $A$ as shown on the right.

Exercise 12
Draw an I/O-automaton modelling the digital circuit shown on the right. Use $\Sigma := \Theta := \{0, 1\}$ as input- and output-alphabet.