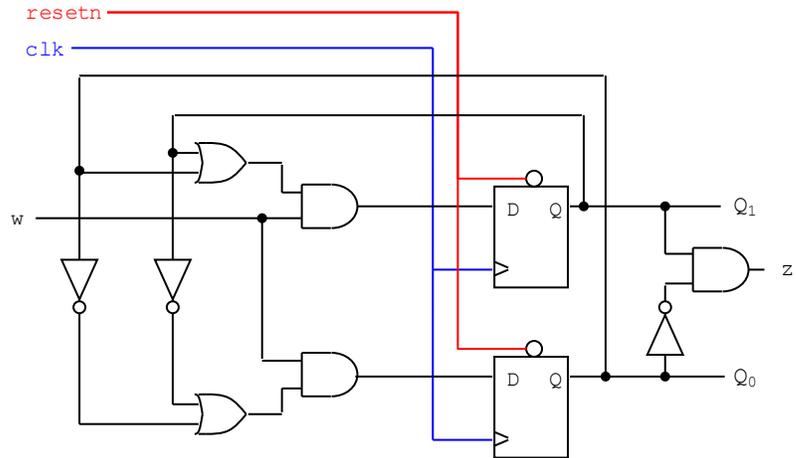


Quiz 4

(November 22nd @ 5:30 pm)

PROBLEM 1 (35 PTS)

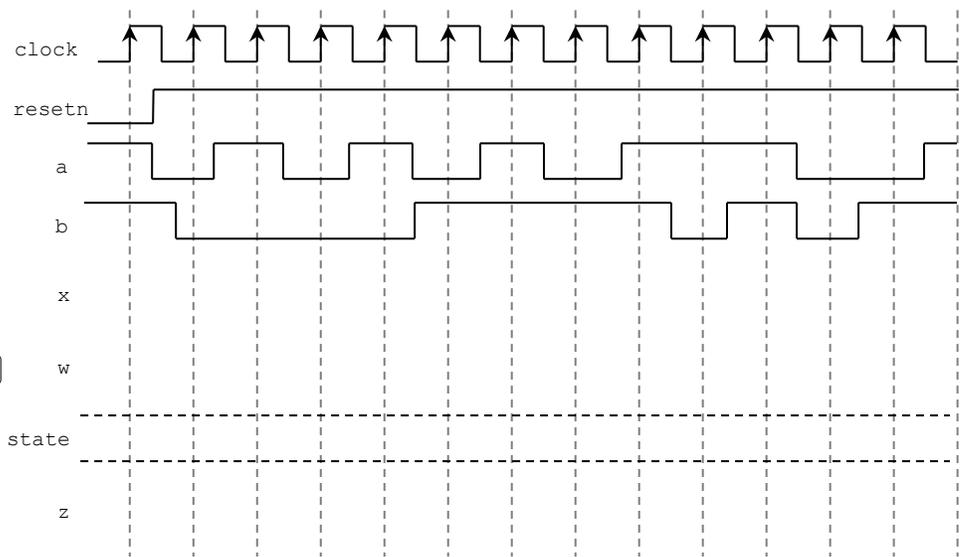
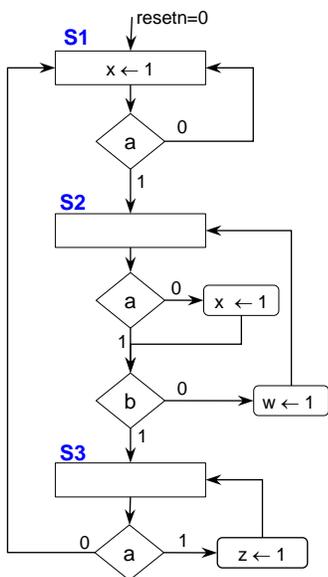
- Provide the Excitation equations (including the Boolean equation for z) and the Excitation Table of the following FSM:



- Which type is this FSM? Circle or mark the correct one: (Mealy) (Moore)

PROBLEM 2 (35 PTS)

- Complete the timing diagram of the following FSM (represented in ASM form):



PROBLEM 3 (30 PTS)

- Sequence detector: Draw the state diagram (any representation) of an FSM with input x and output z . The detector asserts $z = 1$ when the sequence 0110 is detected. Right after the sequence is detected, the circuit looks for a new sequence.