CS270 Recitation 12 "Help Session for State Machine"



Goals: Design a Logisim circuit that implements the simple state machine shown below:

Here are a few clarifications that may help you, and questions you should be able to answer:

- What is the sequence of bits that is detected by this state machine?
- State should be stored in D-latches, how many do you need?
- The truth table is combinational logic similar to what you have already done.
- You must use a D-latch the output, since it's on a transition.
- Optimization is allowed and encouraged, the fewer gates the better!

Input	Current State	Output	Next State
0	0		
0	1		
1	0		
1	1		

After completing the truth table and answering the questions above, create a Logisim circuit called R12.circ and turn it in to the Canvas drop box.