

HW4 ECE2060 Sp 2020

Lectures Covered: Lessons 24 to 27

Show all relevant steps. Don't just write down the answers.

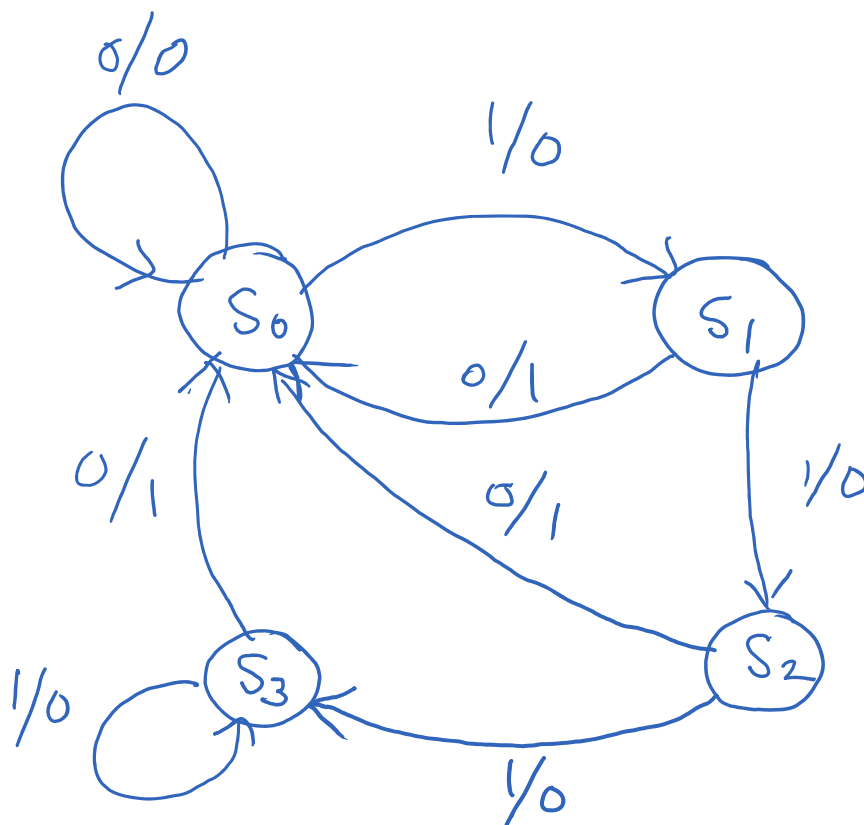
Show your work on these pages, attach additional pages if necessary.

Your Last Name _____ Your First Name _____

Your OSU email _____

Problem starts on next page. There is only one problem.

1) Design a circuit which implements the State Diagrams given below using four D-Flip Flops. Go through the whole design process: i) Convert the State Diagram to a State Machine Diagram ii) Determine the State machine Table iii) Determine the Flip Flop input equations and the output equations and iv) Draw the circuit. You do not have to simplify the equations so no need for K-maps.



1) Continued ...

1) Continued ...

1) Continued ...

1) Continued ...

1) Continued ...