

HW6 ECE2060 Sp 2019

Lectures Covered: Lessons 24 to 27

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

Late HWs will not be accepted.

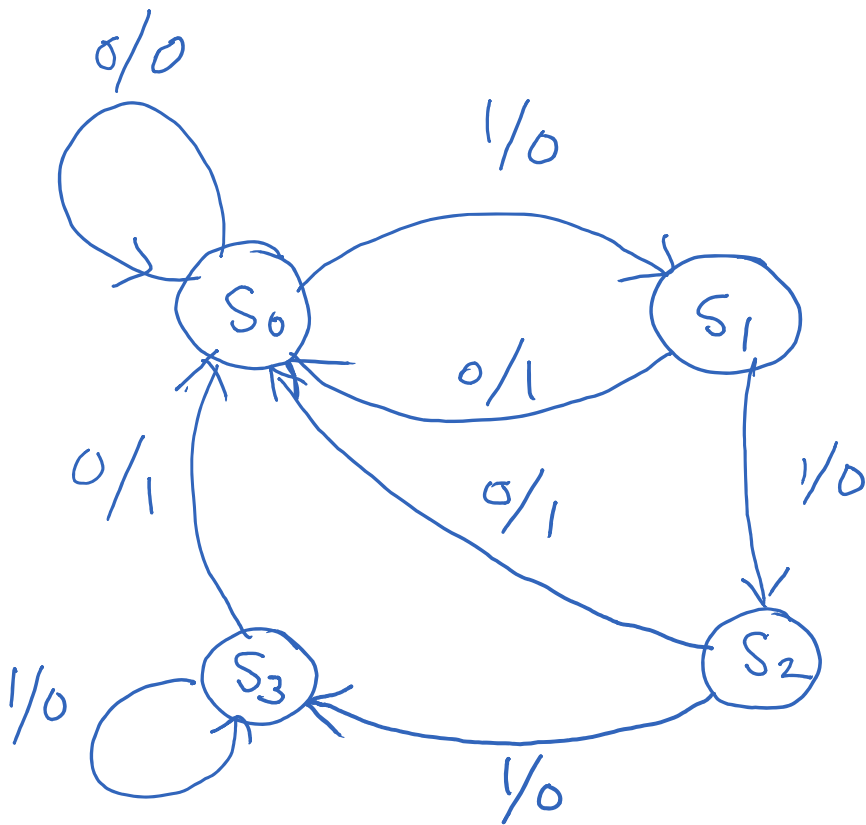
Show your work on these pages, attach additional pages if necessary.

- Be sure to organize the pages **in order** and **staple** them all together, **otherwise you will lose one point**
- Fill out the following section. **You will lose an additional point if you fail to provide these details**

Your Last Name _____ Your First Name _____

Problem starts on next page. There is only one problem worth 10 points.

1) **10 Points:** Based on the problem solved in Screencast31, design a circuit using the State Machine Diagrams given below using four T-Flip Flops which implements the State Diagram given below. 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) finally draw the circuit. You do not have to simplify the equations so no need for K-maps.



1) Continued ...

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