CSCI 340 — Homework 5

Professor Killian

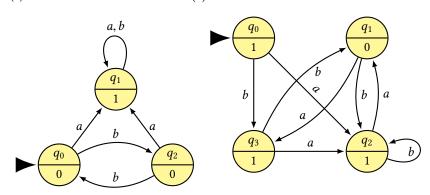
Due: March 3, 2019 @ 11:59PM

 $1. \ \ Given the following transition and output tables, produce their Moore machines$

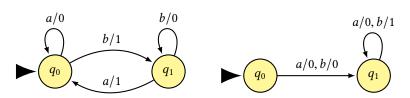
state	a	b	Output
q_0	q_0	q_1	1
q_1	q_0	q_2	0
q_2	q_2	q_2	1
q_3	q_1	q_1	0

state	a	b	Output
q_0	q_3	q_2	0
q_1	q_1	q_0	0
q_2	q_2	q_3	1
q_3	q_0	q_1	0

2. Given the following Moore machines, produce their transition and output tables (a) (b)



- 3. Convert the above Moore machines to Mealy machines
- 4. Convert the following Mealy machines to a Moore machine(a)(b)



5. Design a machine to perform a parity check on the input string. The output of the string ends in 1 if the total number of 1-bits in the input is odd and 0 if the total number of 1-bits is even. Did you choose a Mealy or Moore machine? Why?