CIS 351 Sample SL4 Problem

06 January 2022

SL4: Tracing Sequential Circuits

(a) Complete the characteristic table for the circuit shown below.

Current state			Next State	
B	A_0	A_1	A_0	A_1
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		

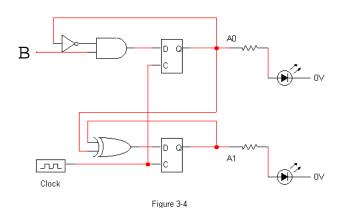
0

1

1

1

1



(b) Now complete the following timing diagram. Again, remember that the flip-flops are positive-edge triggered. This means that A_0 and A_1 will change **only** when the clock rises from 0 to 1!

