

Homework 30

Monday, December 6, 2021

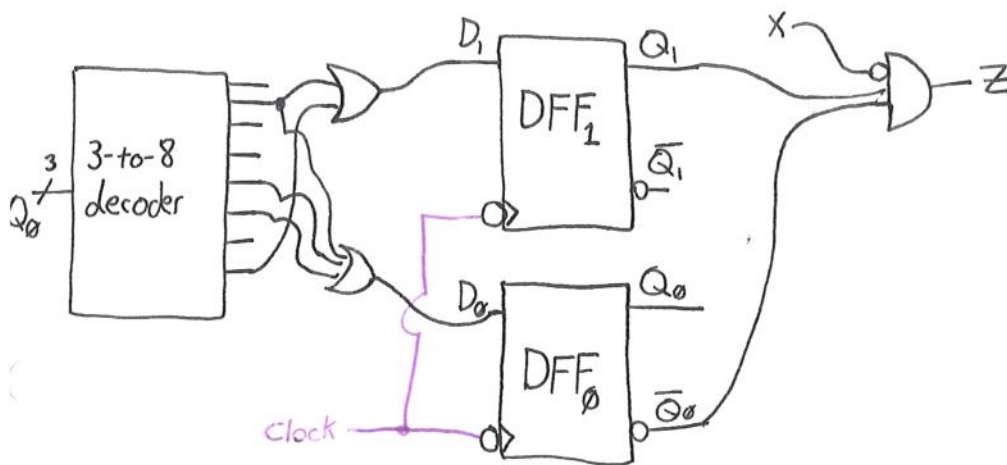
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Homework 30 - The last one of the semester! - ELEC 2200 - Fall 2021

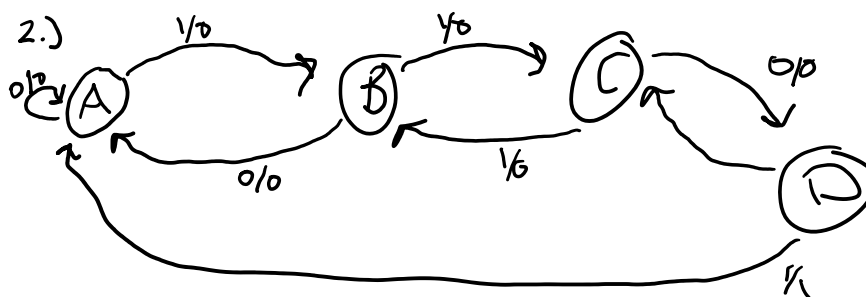
Given the system below, tell me...

- 1) Mealy or Moore (0.5 points)
- 2) What sequence is it detecting, assuming $z=0$ only when the sequence has been found? (2 points)
- 3) How would you draw this as a one-hot machine in the other style (so if you think this is Mealy, draw as a one-hot Moore, and if you think this is Moore, draw it now as a one-hot Mealy)? (2 points)
- 4) Is this rising or falling edge? (0.5 points)

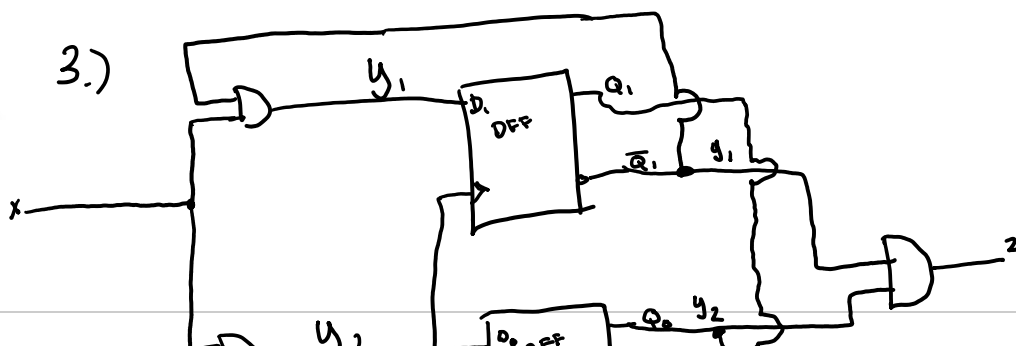
Note: the decoder will select output 4 when $xQ_1Q_0=100$, 6 when $xQ_1Q_0=110$, etc., so the MSB is x , LSB is Q_0 .

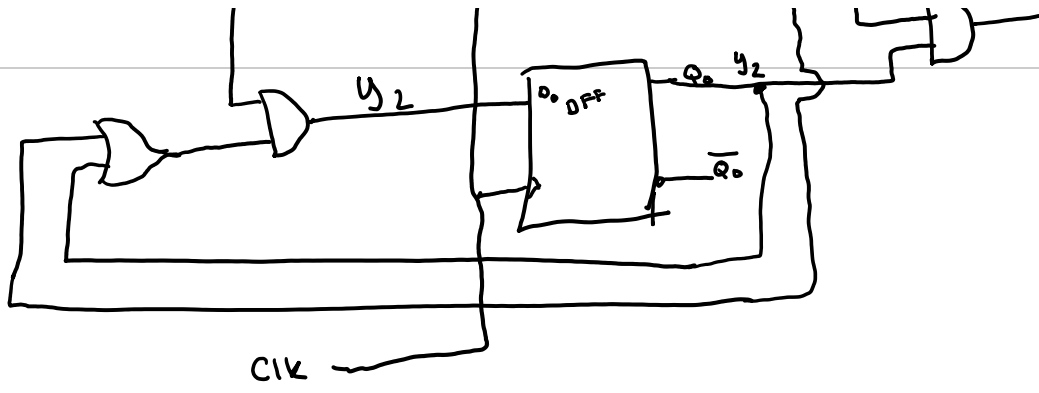


1.) Mealy Model



The sequence is 1101101





41.) Rising edge