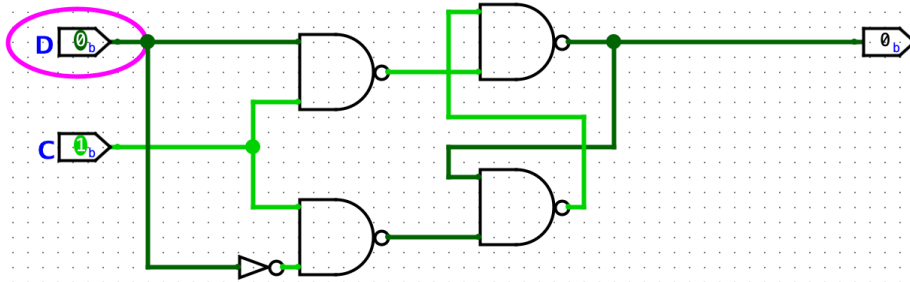


Lab 3

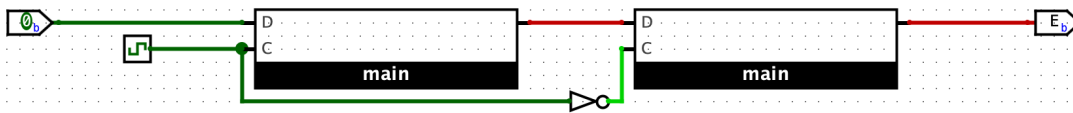
Matthew Peterka 131008310

Problem 1.

First is the D-Latch:

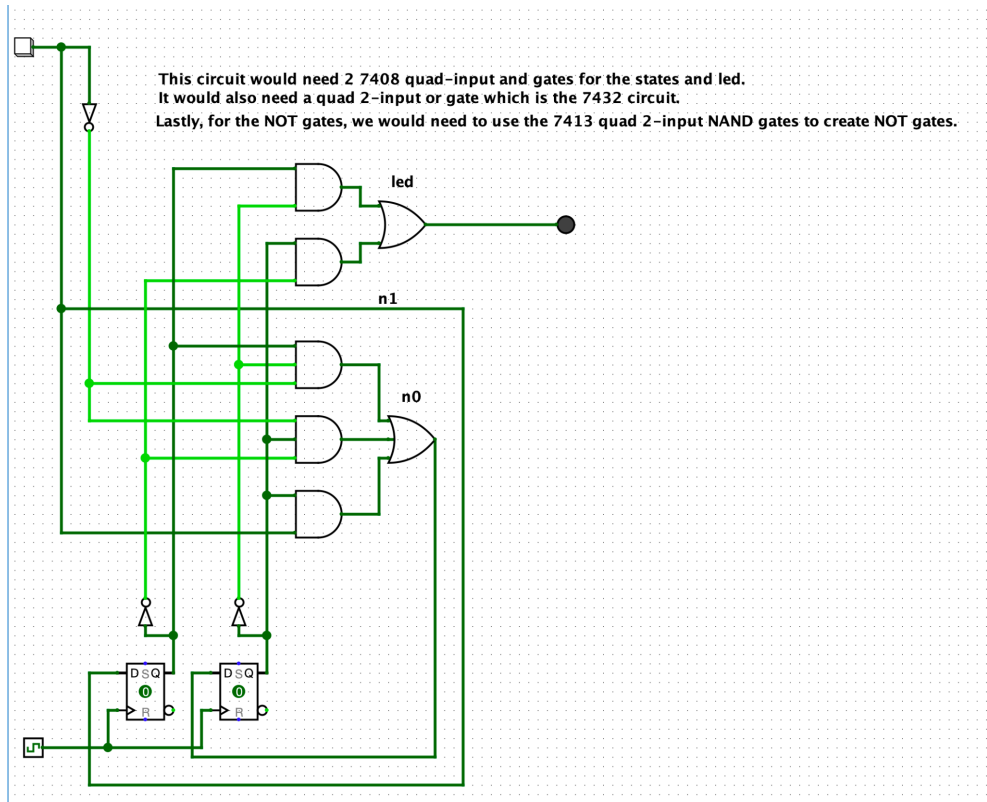


Next combining two D-Latches we get a D-Flip Flop:



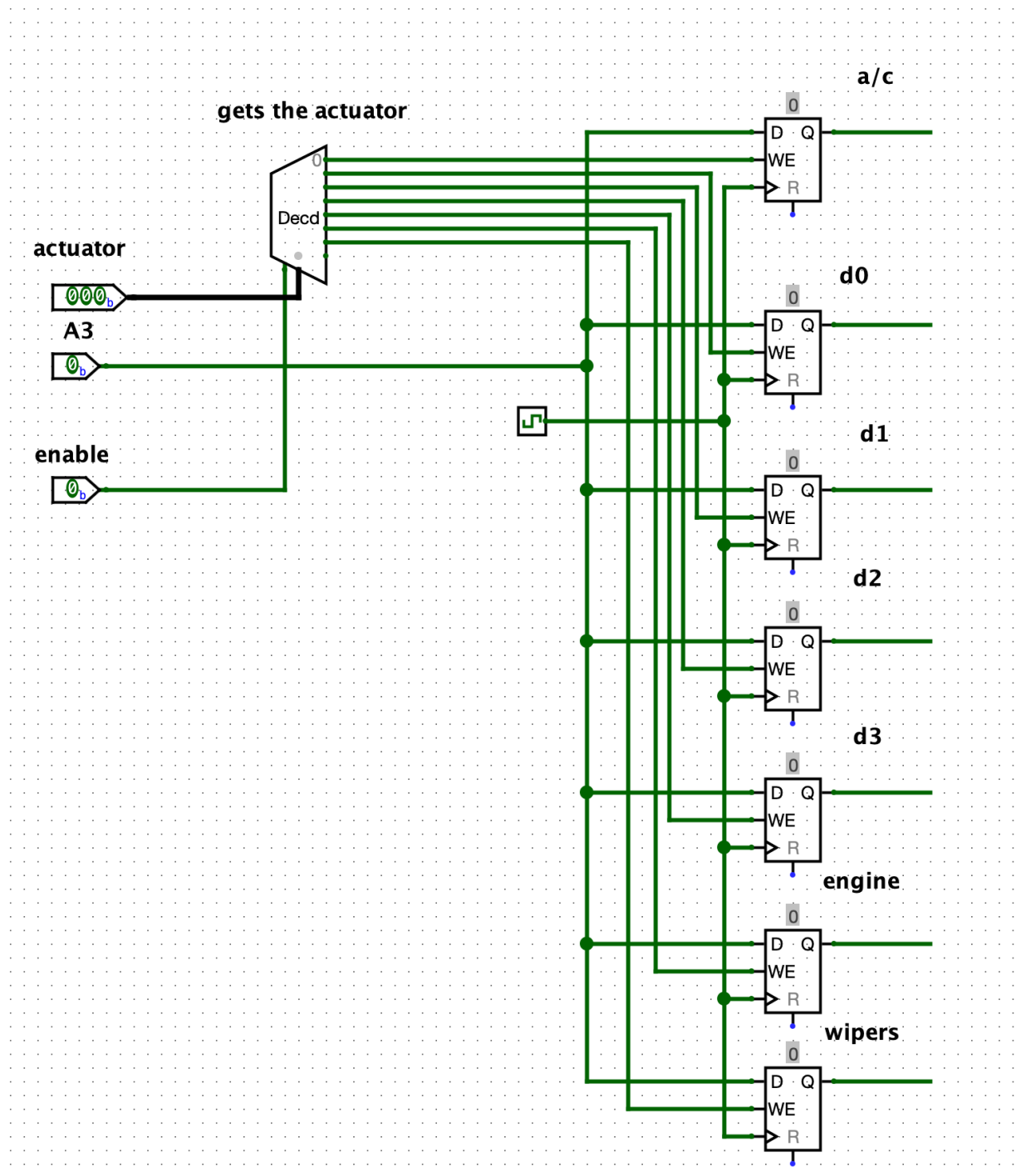
Problem 2.

- a. What is the meaning of “SPST” and “NO” in the context of electro-mechanical switches?
 - i. “NO” stands for normally open meaning the switch starts at the open state.
“SPST” stands for single pole single throw which means that it has two different positions, one being open and one being closed which can provide a sort of an on/off switch.
- b. Logic Circuit:



Problem 3.

a. Logic Circuit:



b. Timing Diagram:

