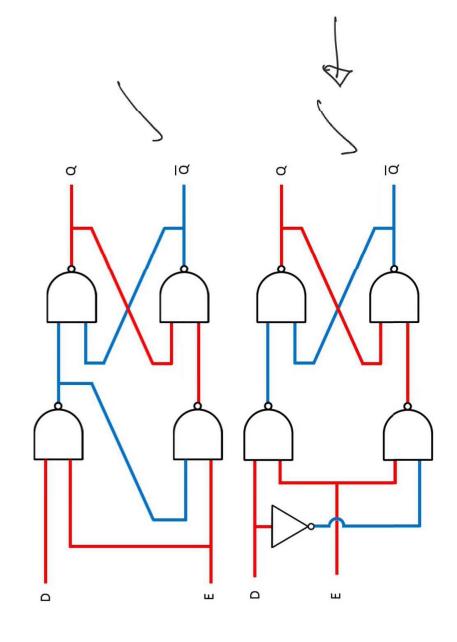
D Flip Flops

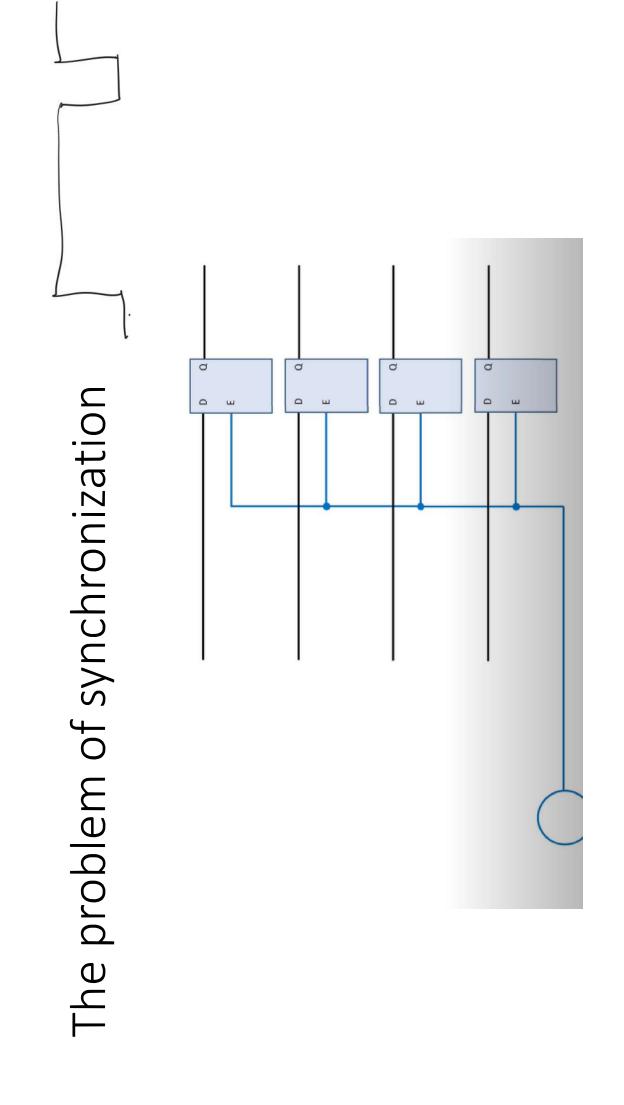


Ack: same as in the last set of slides on latches

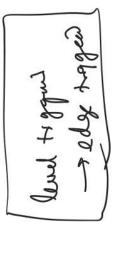


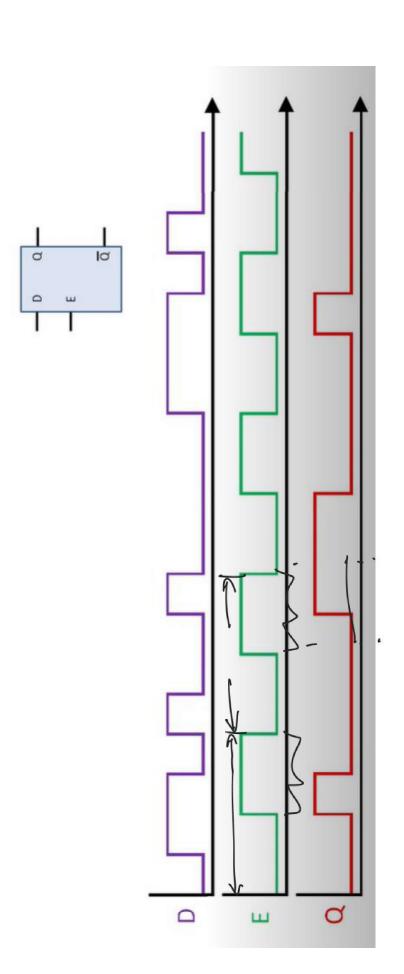
Homework: verify that these designs are equivalent

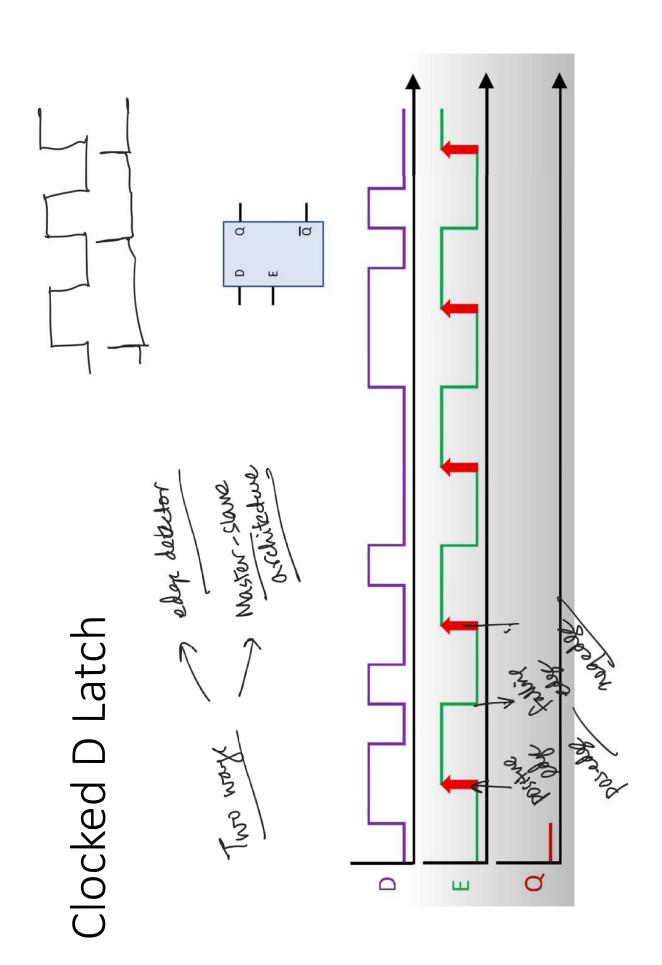




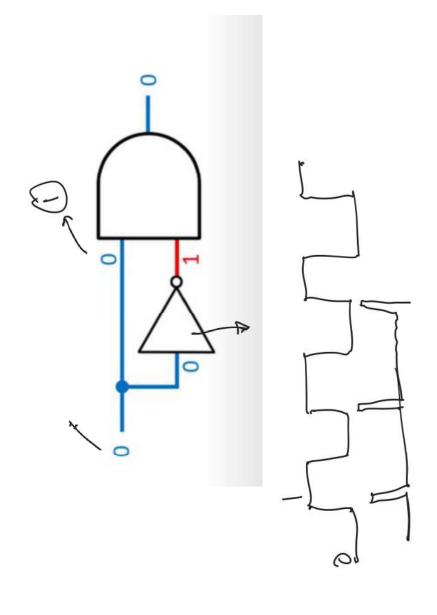
The D latch with a clock for enable

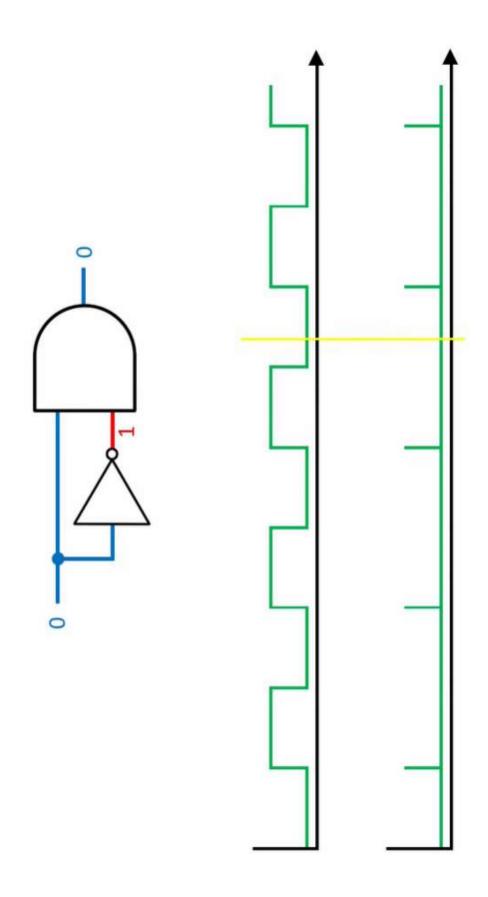




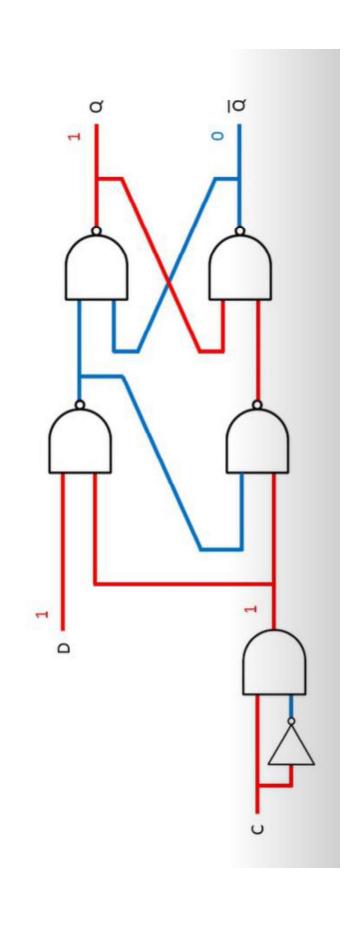


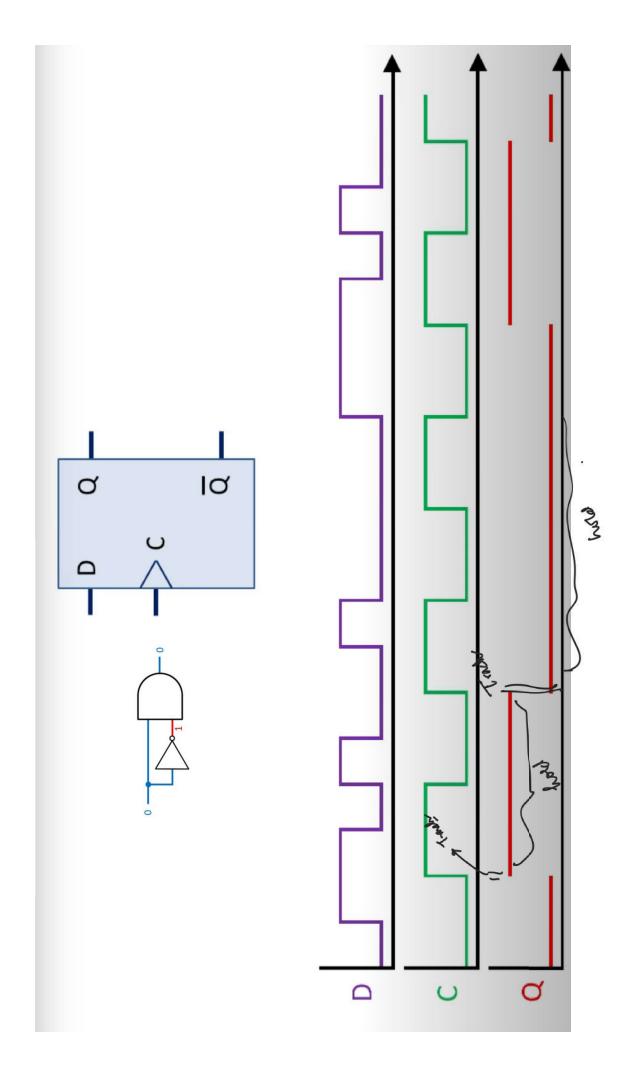
Edge detector

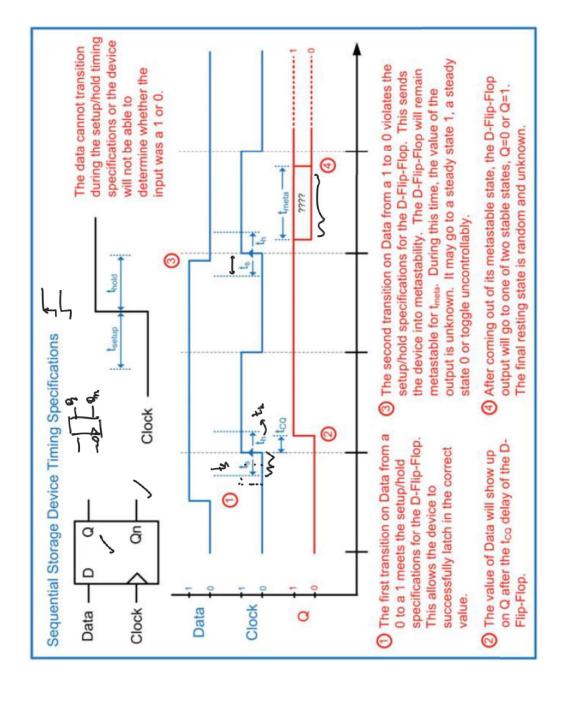




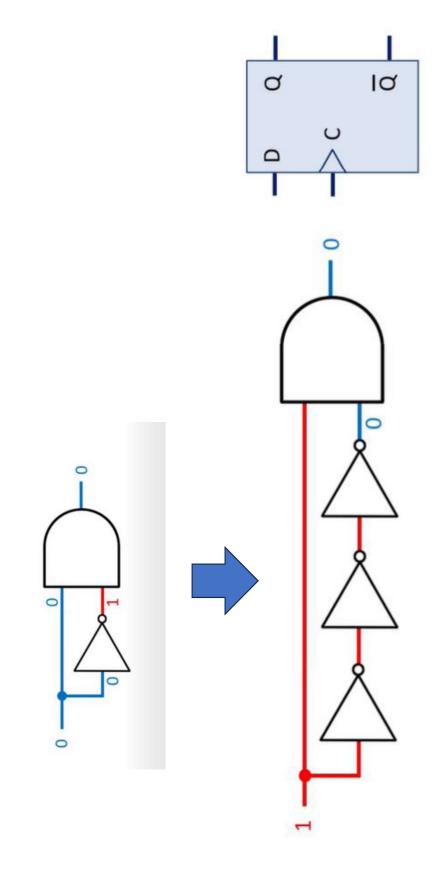
The Clocked D Latch



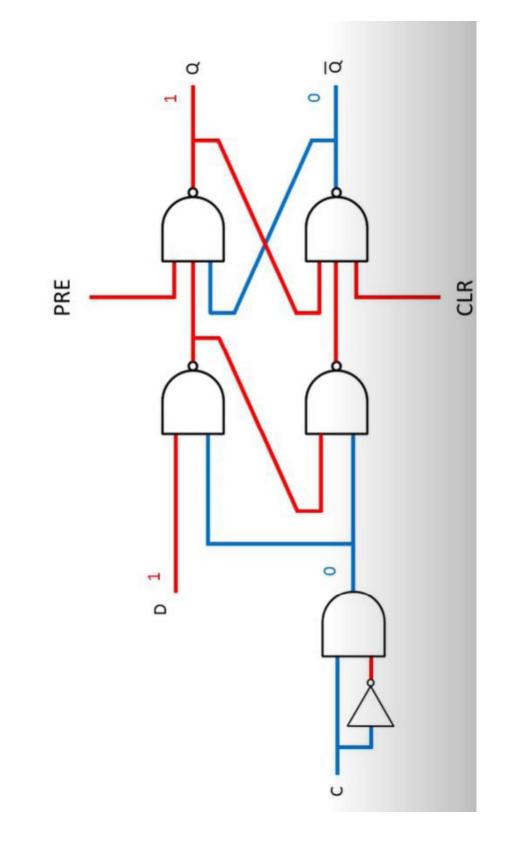




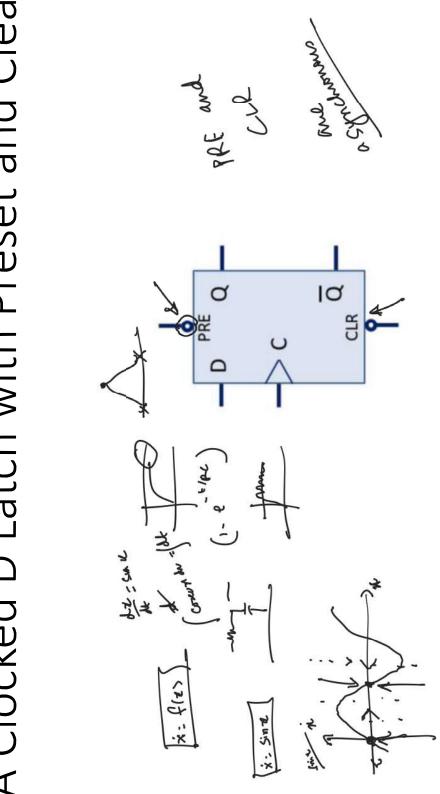
Improvisations



Improvisations: Overriding the clock



A Clocked D Latch with Preset and Clear



The problem of synchronization

