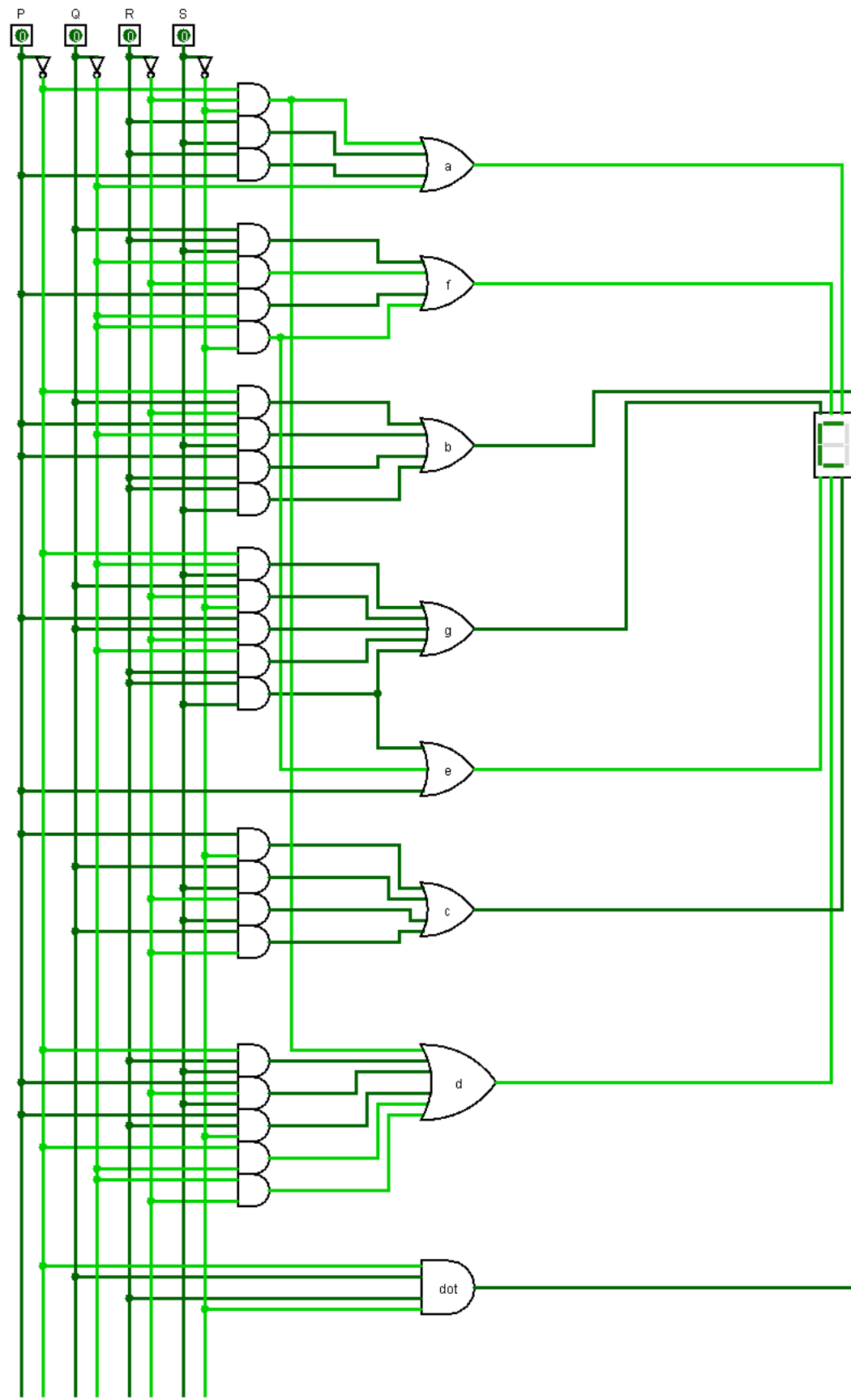
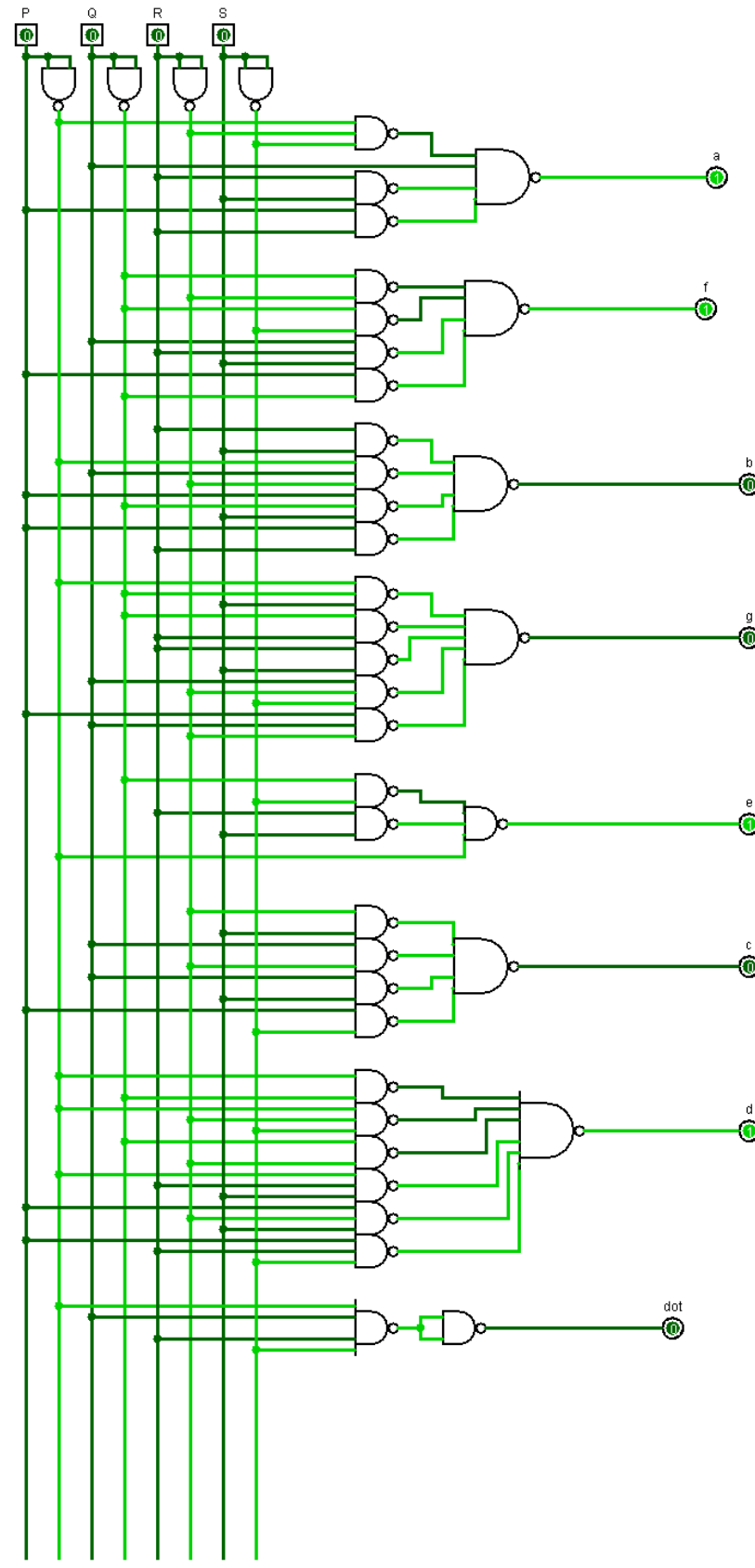
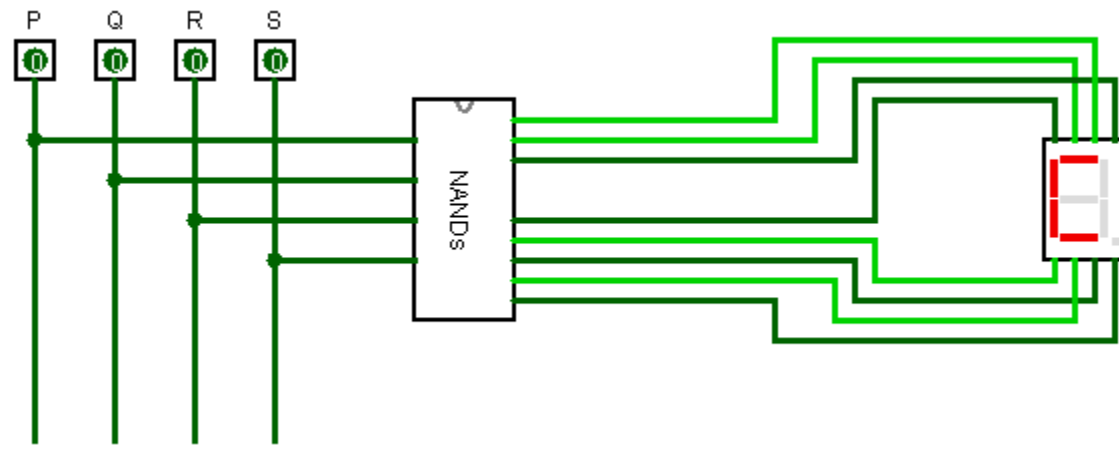


## Basic Gates:

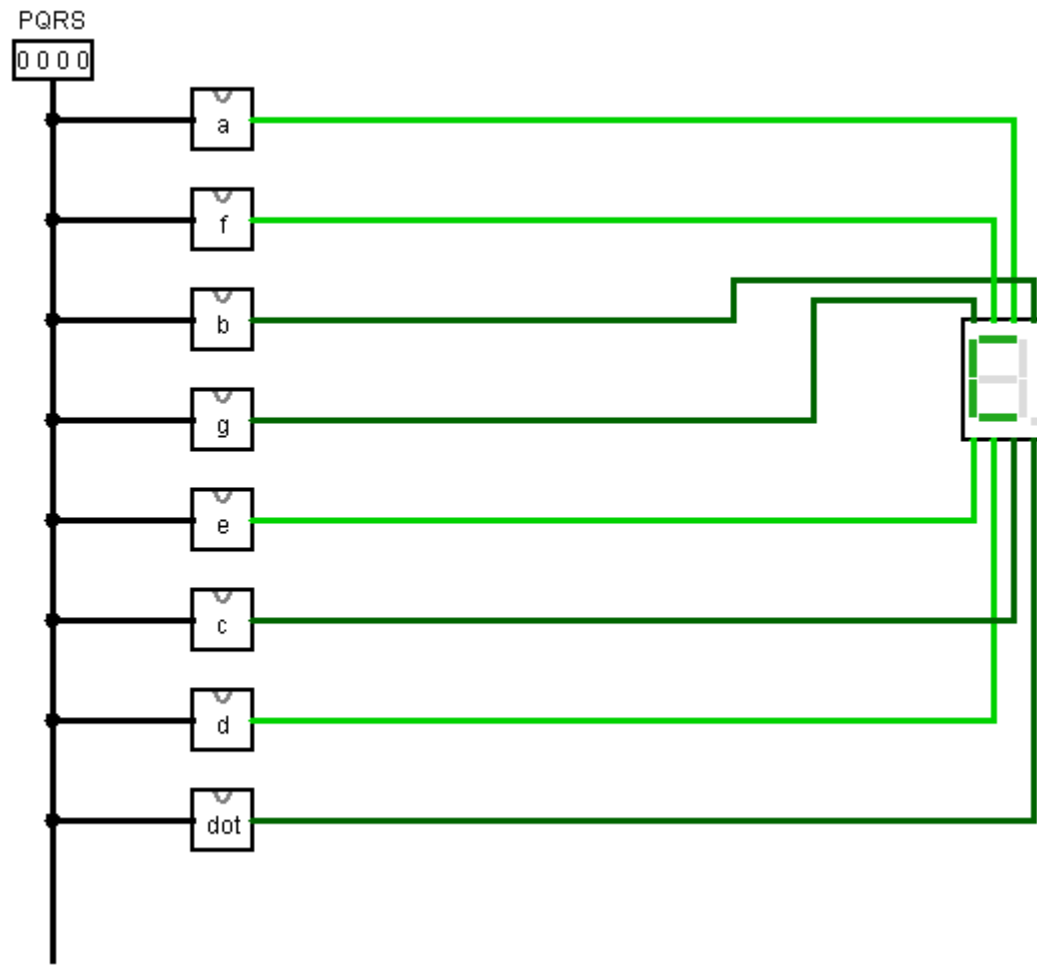


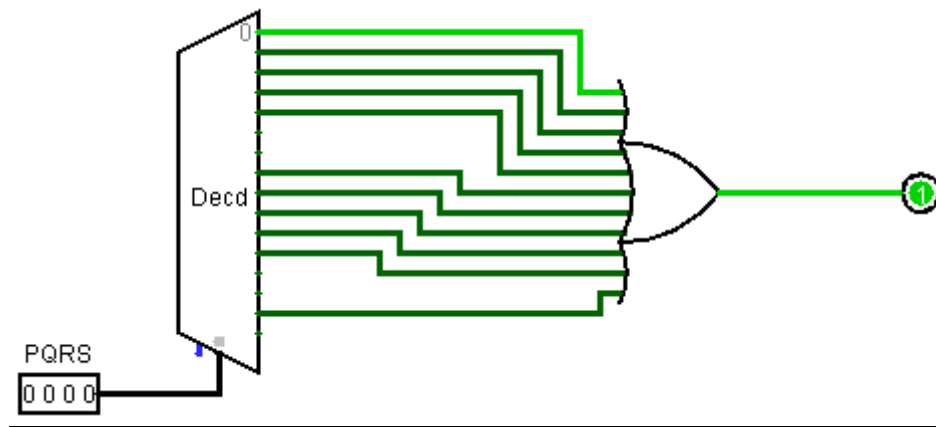
# Universal Gates



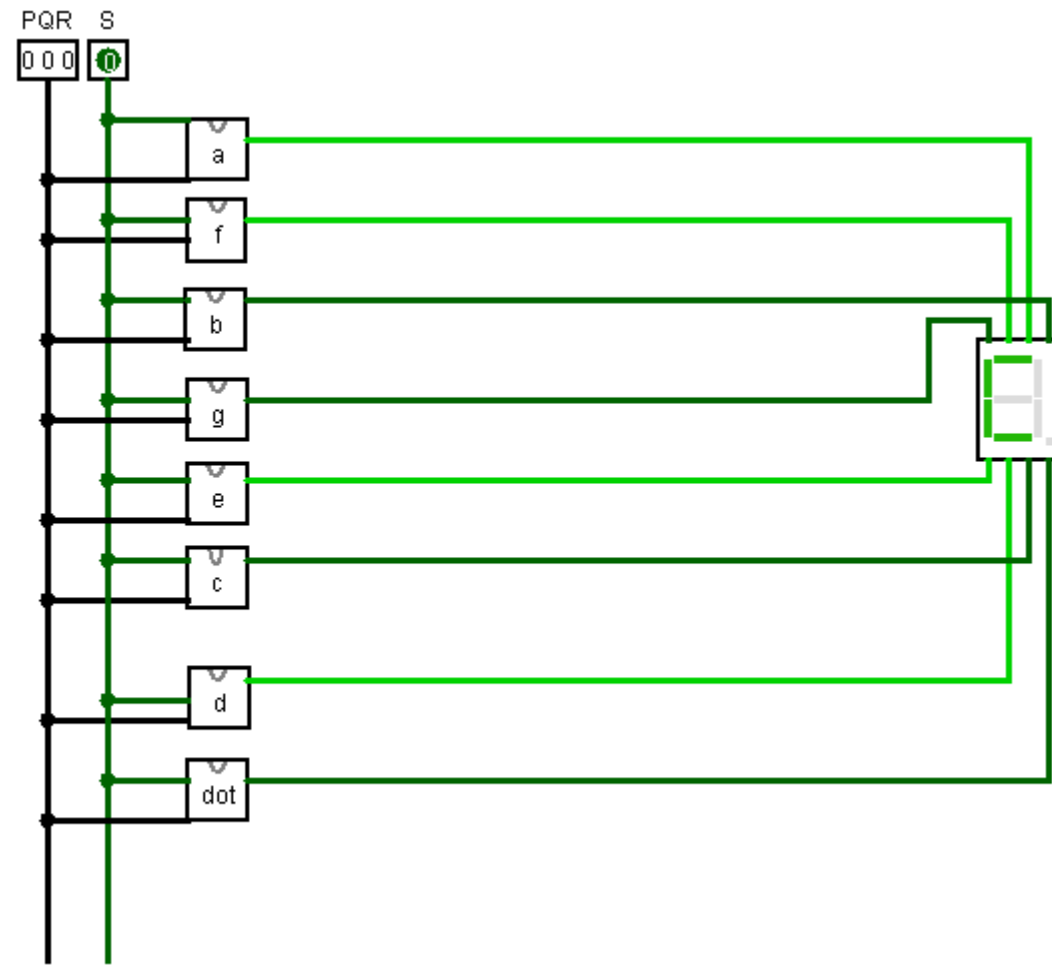


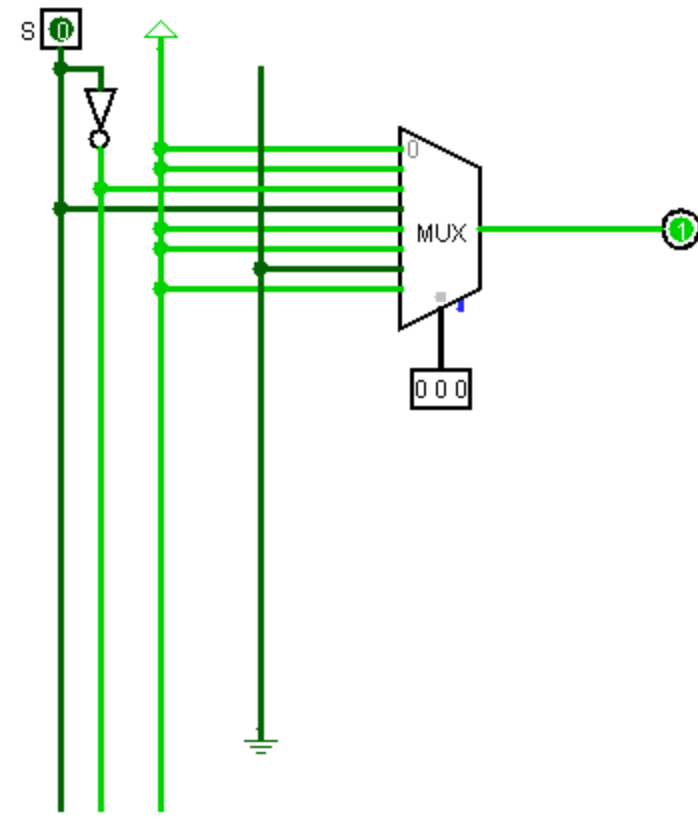
## Decoder



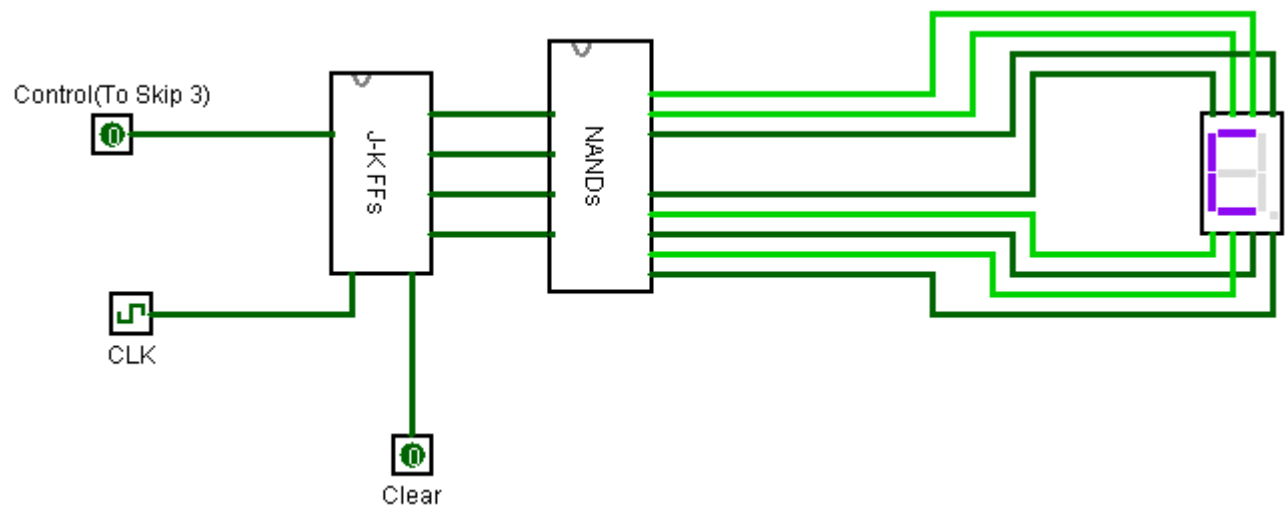


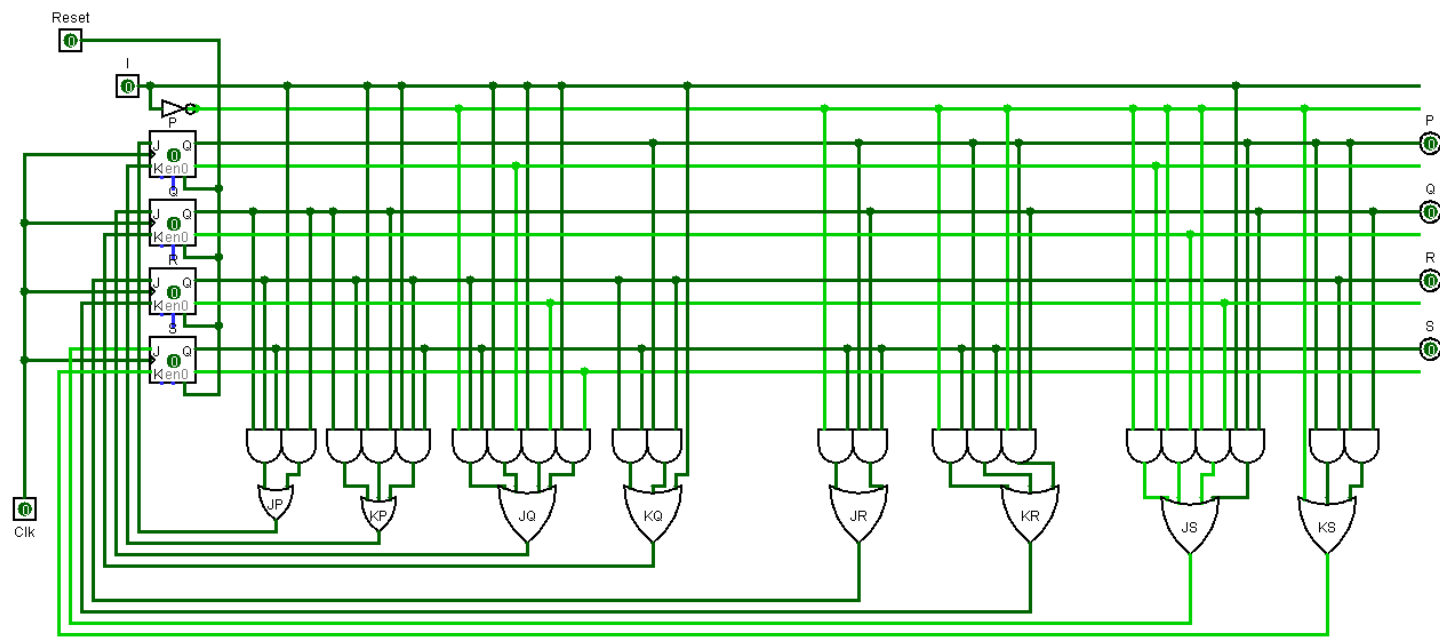
## Mux



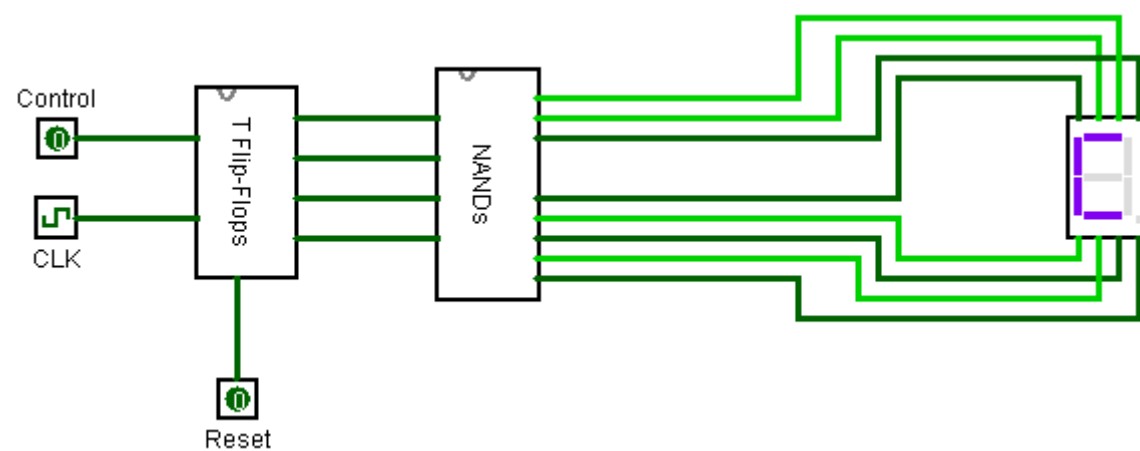


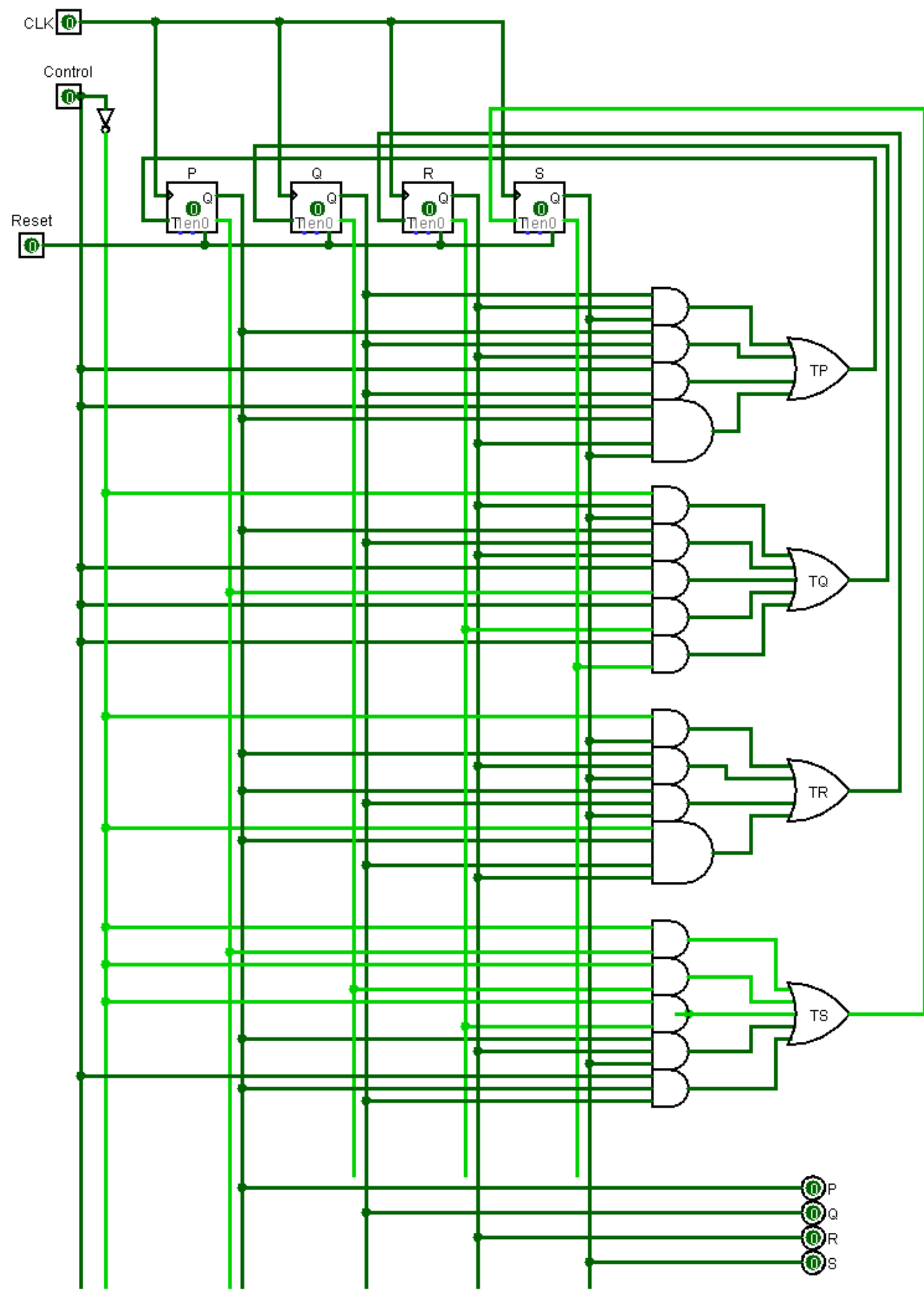
## J-K Flip-Flops



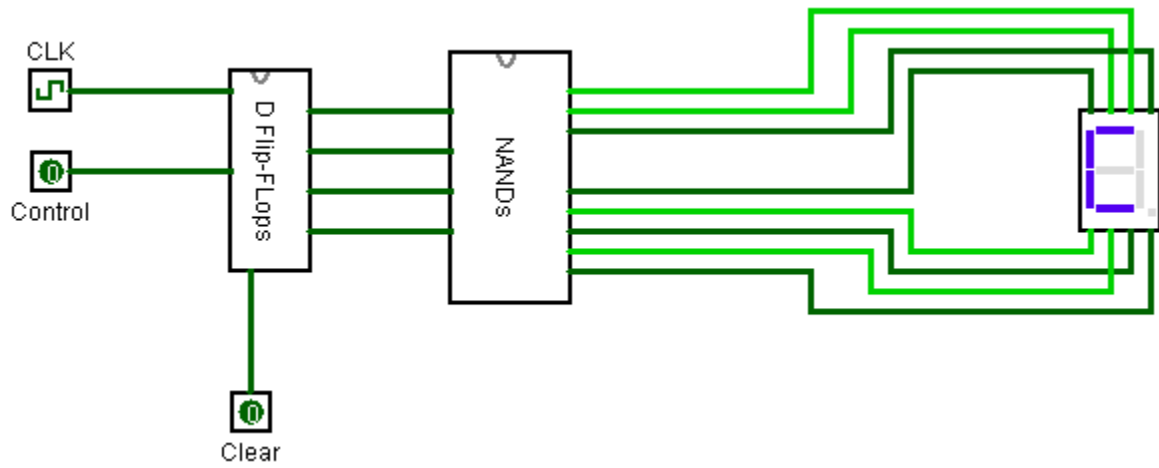


## T Flip-Flops

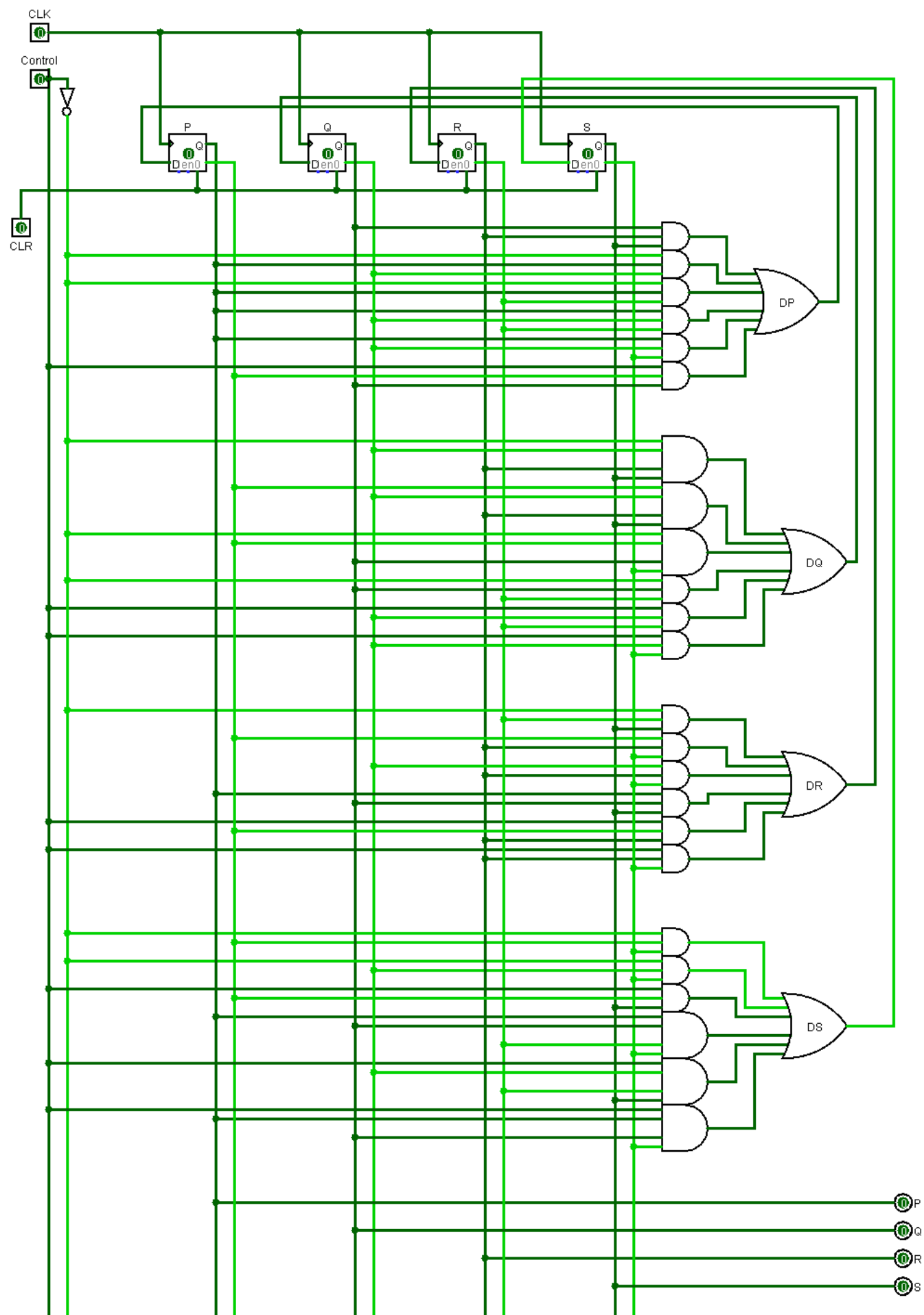




# D Flip-Flops:





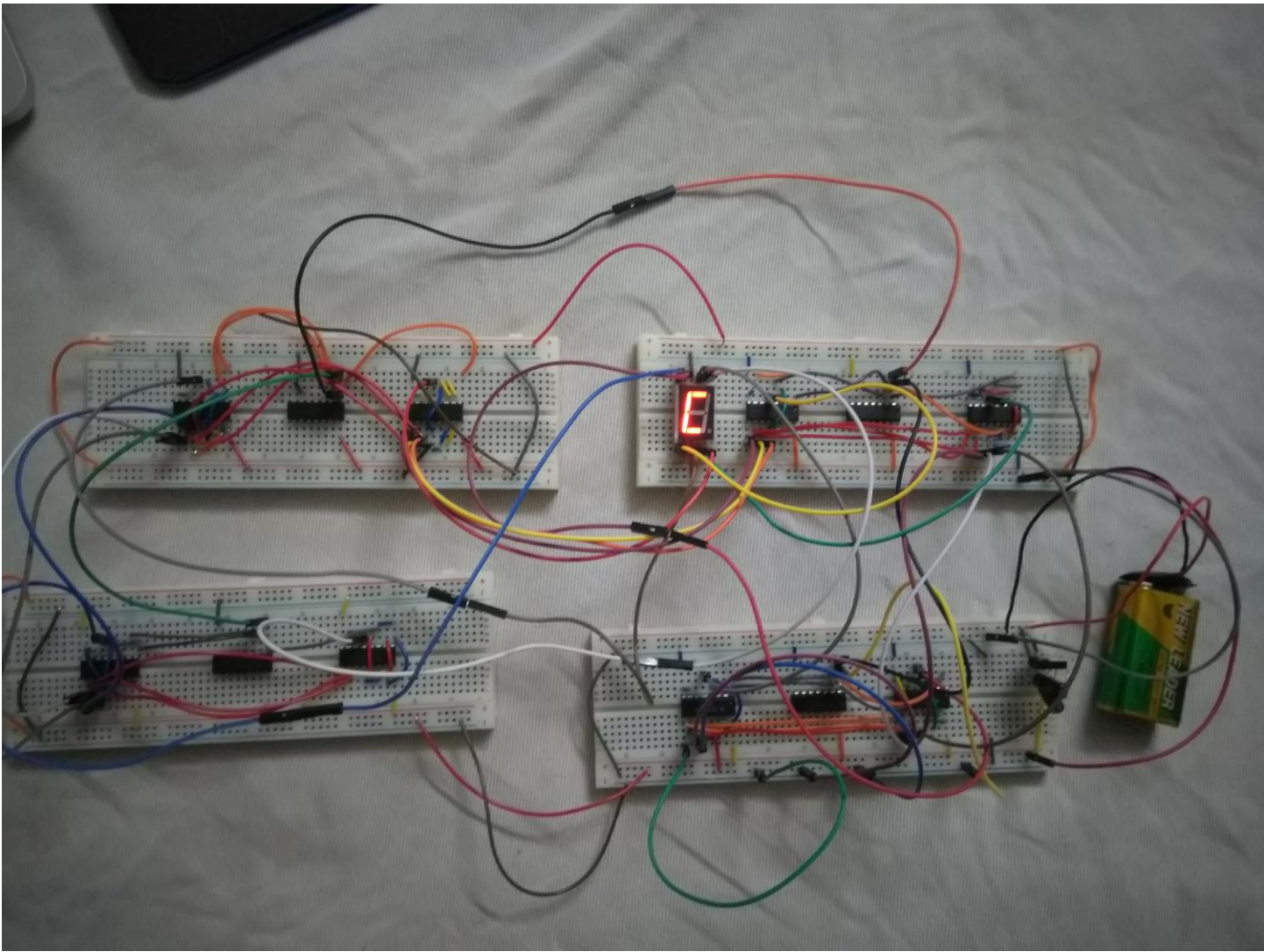


# IMPLEMENTATION

Combinational circuit implementation.

## Parts Used:

- 8 IC 74151 (8:1 MUX)
- IC 7404 (NOT Gates)
- 9 volt battery
- LM7805 Voltage Regulator (5V)
- 10 uf Capacitor



Sequential circuit implementation.

### Parts Used:

- IC 7432 Quad 2-Input OR Gates
- IC 4075 Triple 3-Input OR Gates
- IC 4072 Dual 4-Input OR Gate
- IC 7408 Quad 2-Input AND Gates
- IC 7411 Triple 3-Input AND Gates
- IC 7404 Hex Inverter (Not Gate)
- IC 7473 Dual JK Flip-Flops with Reset
- NE555 (Timer IC)

