

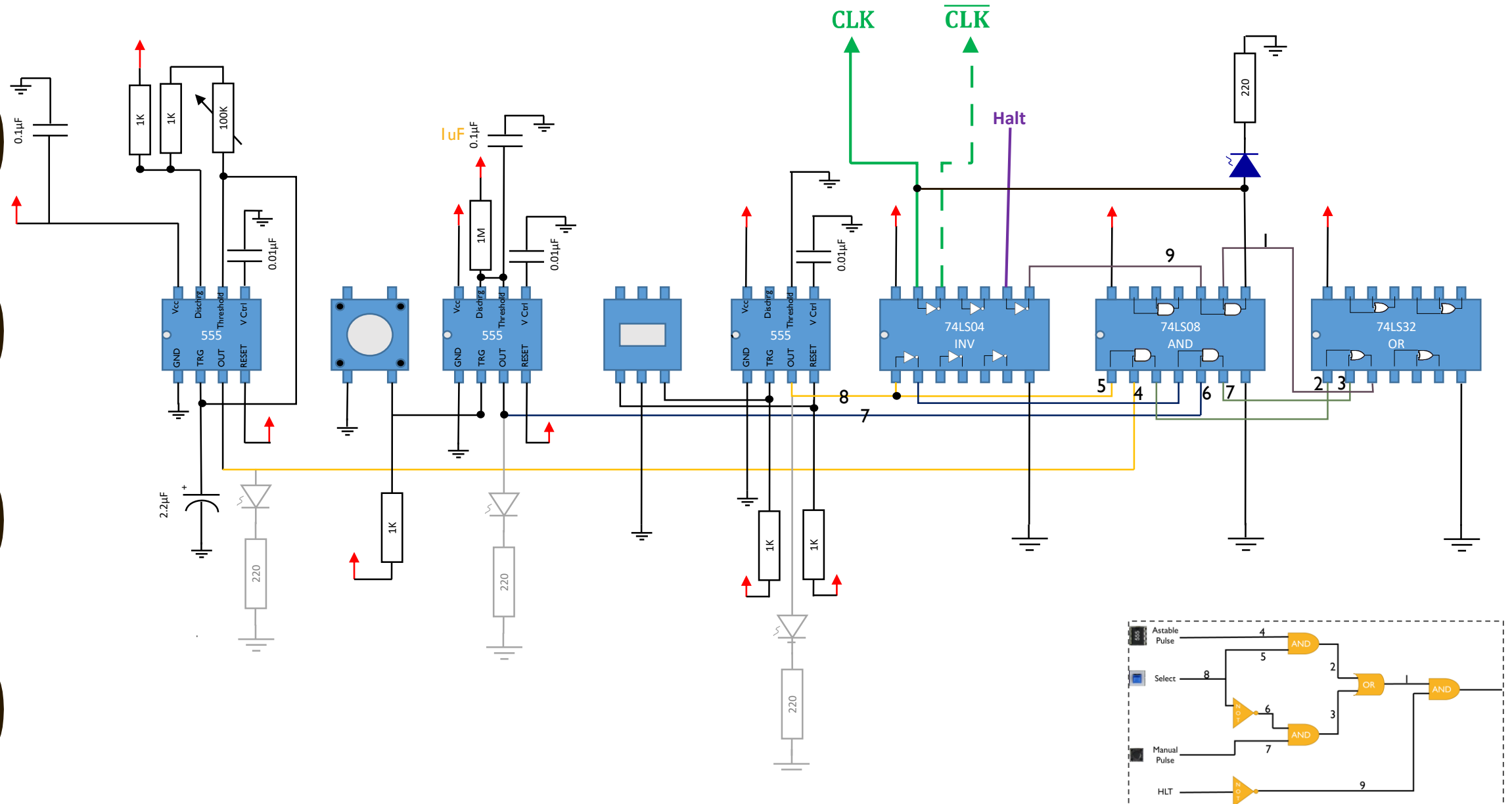
8-BIT COMPUTER CIRCUIT DIAGRAMS

SKETCHED BY ODED
BASED ON BEN EATER'S WORK
AT [HTTPS://EATER.NET/](https://eater.net/)

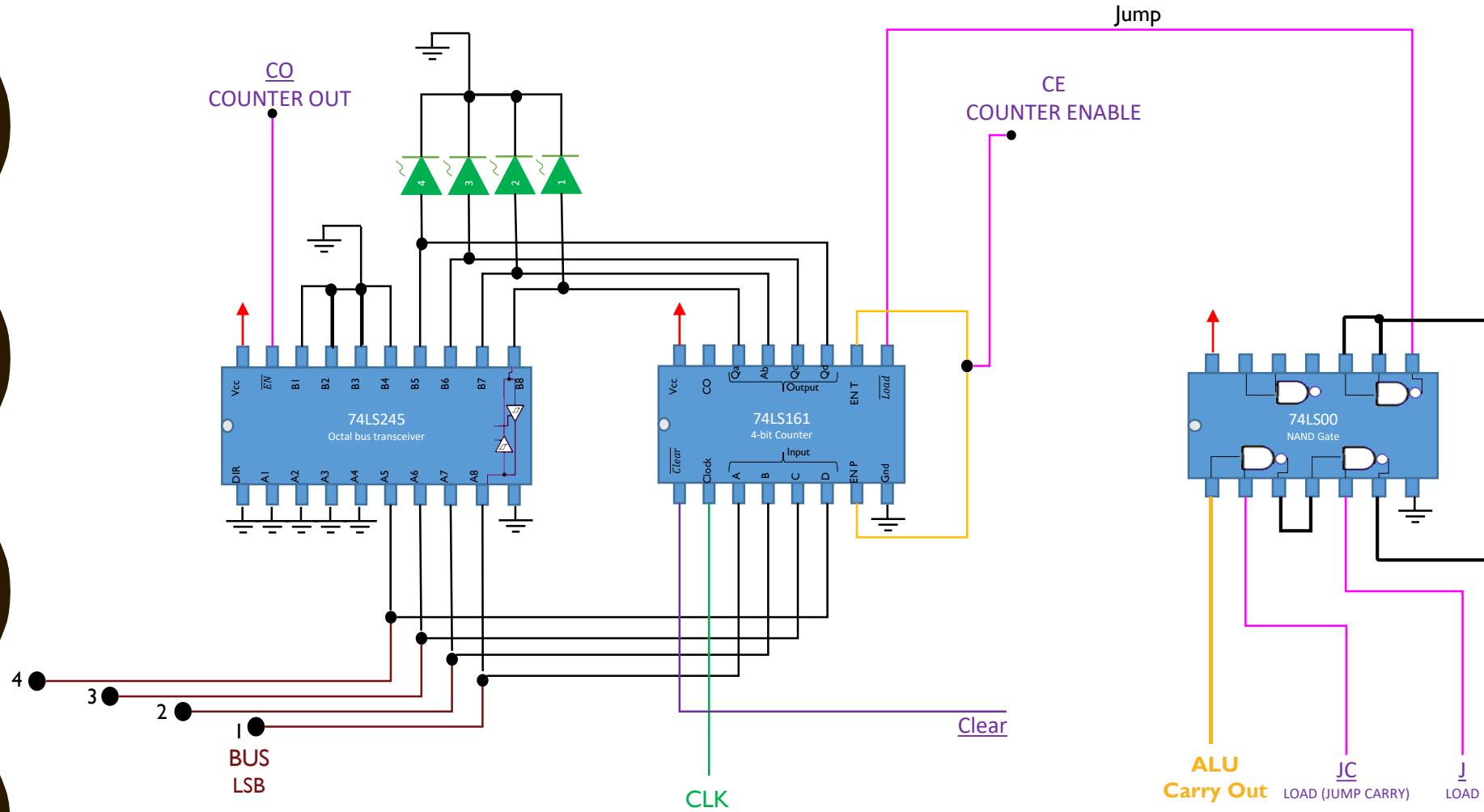
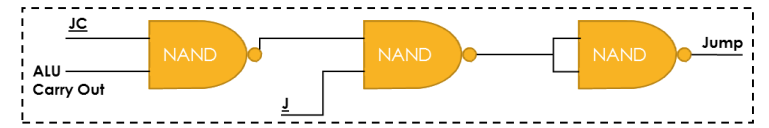
COMMENTS

- The following diagrams are based on the great Ben Eater's videos describing the design and build of an 8-bit computer for educational purposes.
- These sketches are not official circuit schematics (which may be harder for most people to interpret) but logical breadboard views of each of the computer's components.
- Originally, I created these sketches for my personal use (to build my own version of the computer) but then decided to share them with the community after seeing so many requests on Ben's site for the schematics.
- If you find a mistake, please send me an email (oded.8bit@gmail.com) and I will make the required changes.
- You can share these sketches in any way you want.

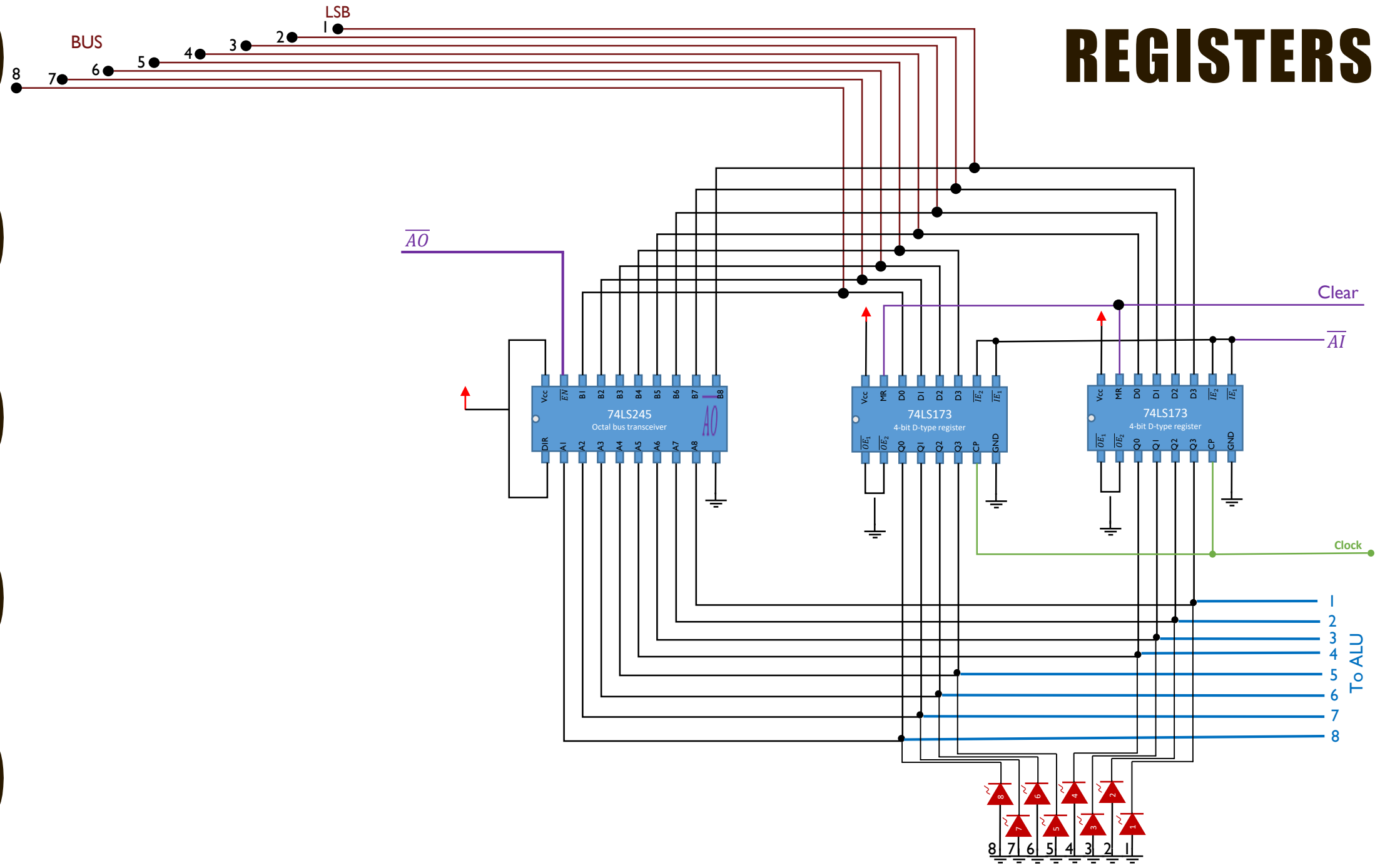
CLOCK



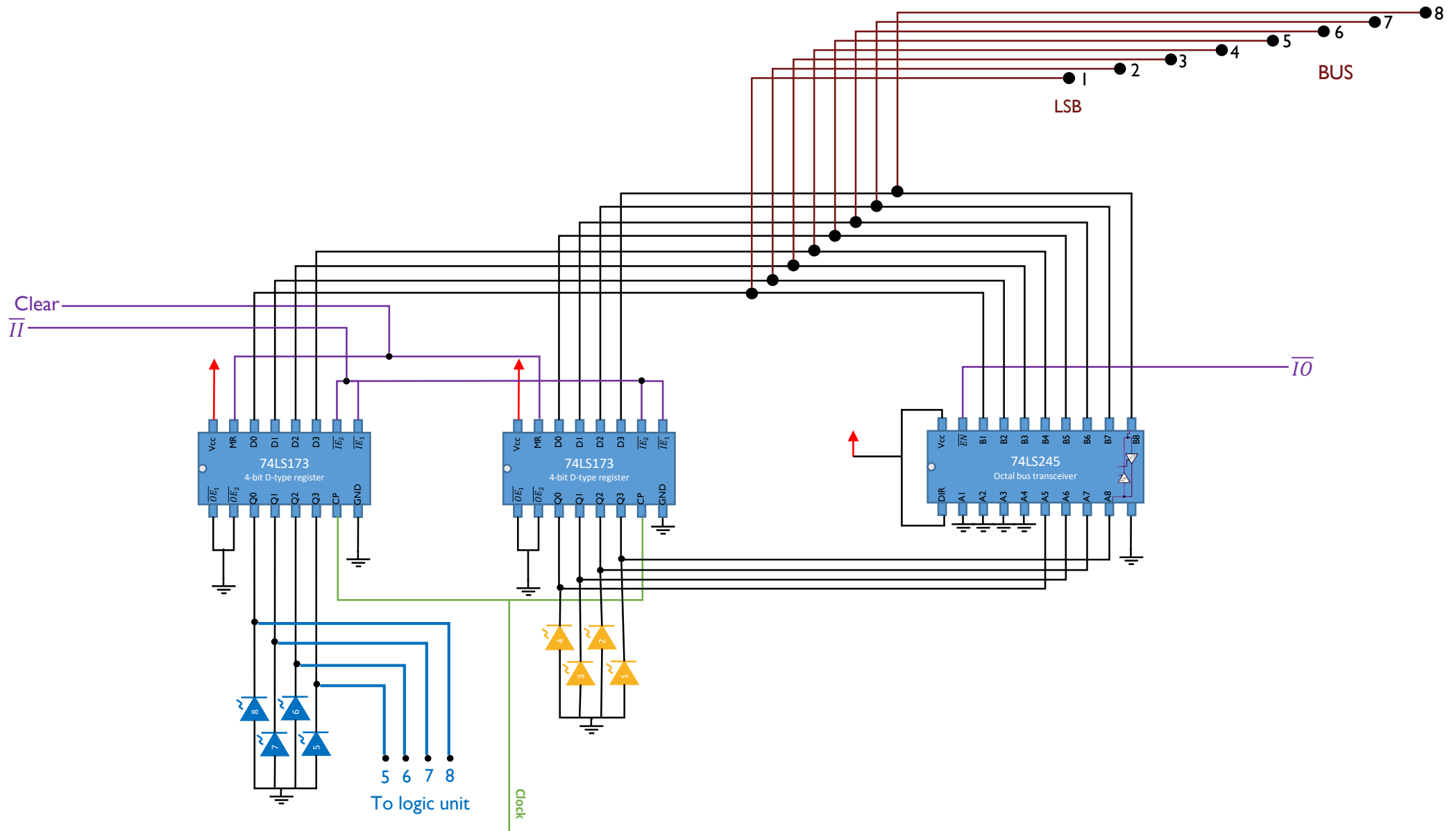
PROGRAM COUNTER



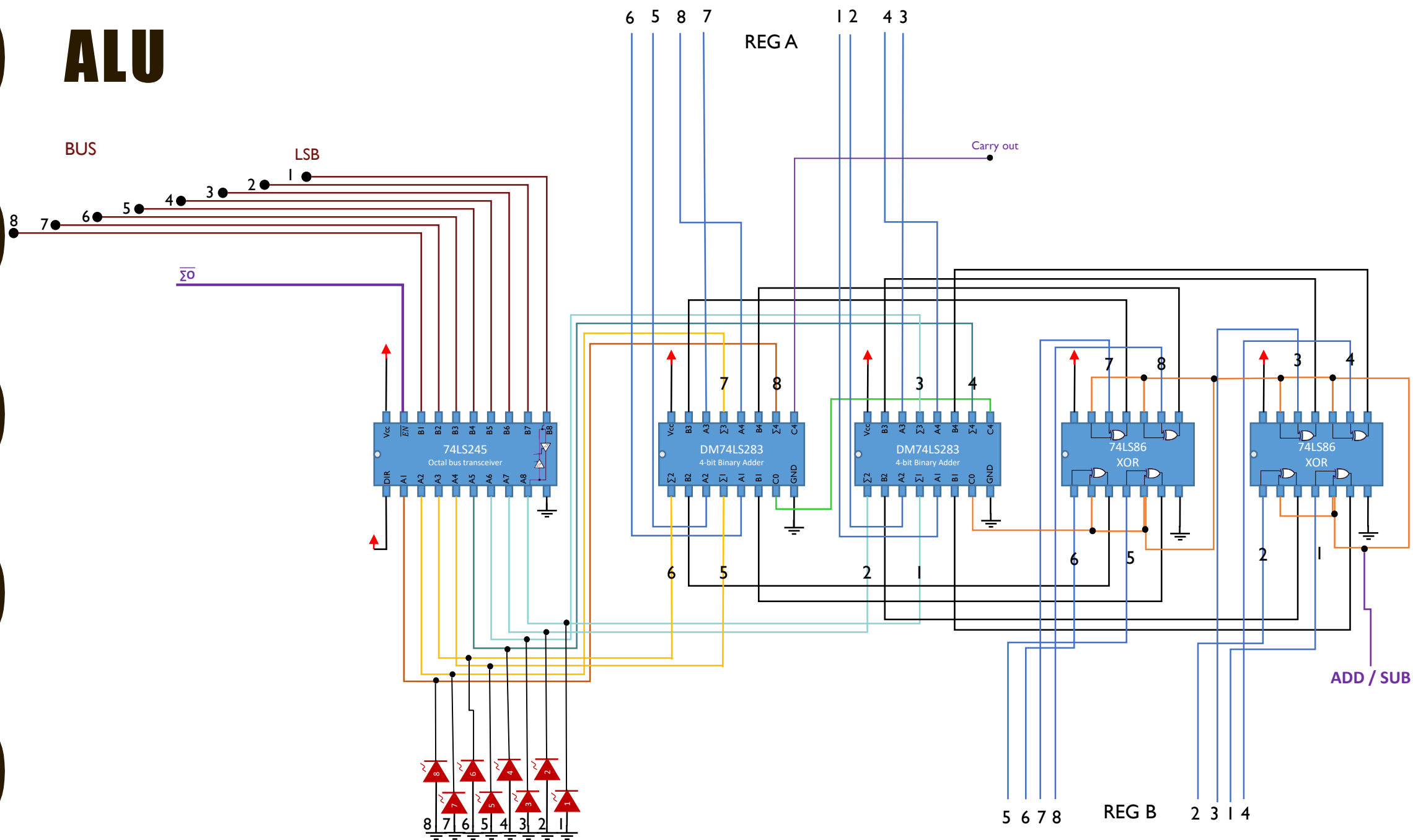
REGISTERS



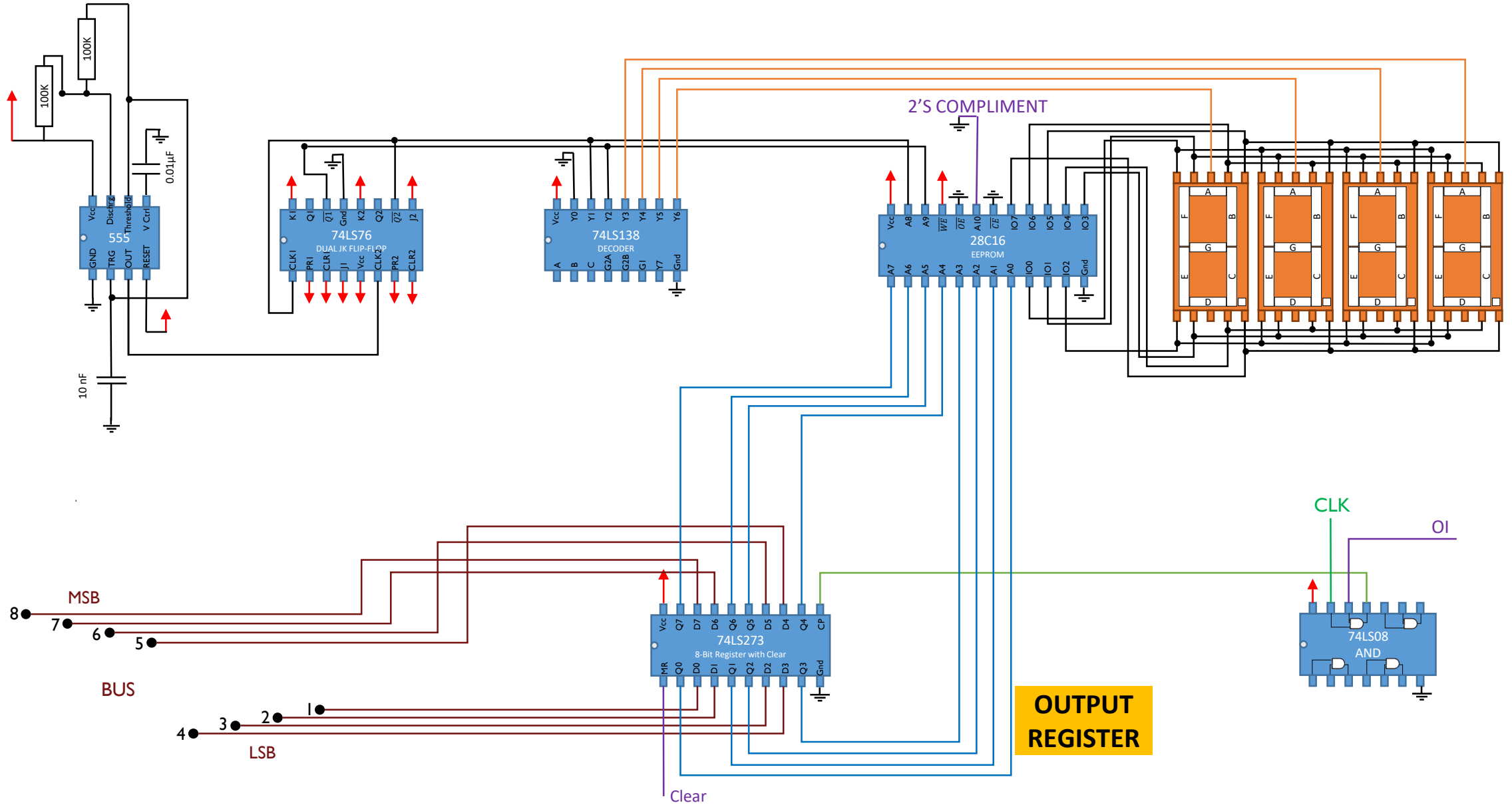
INSTRUCTION REGISTER



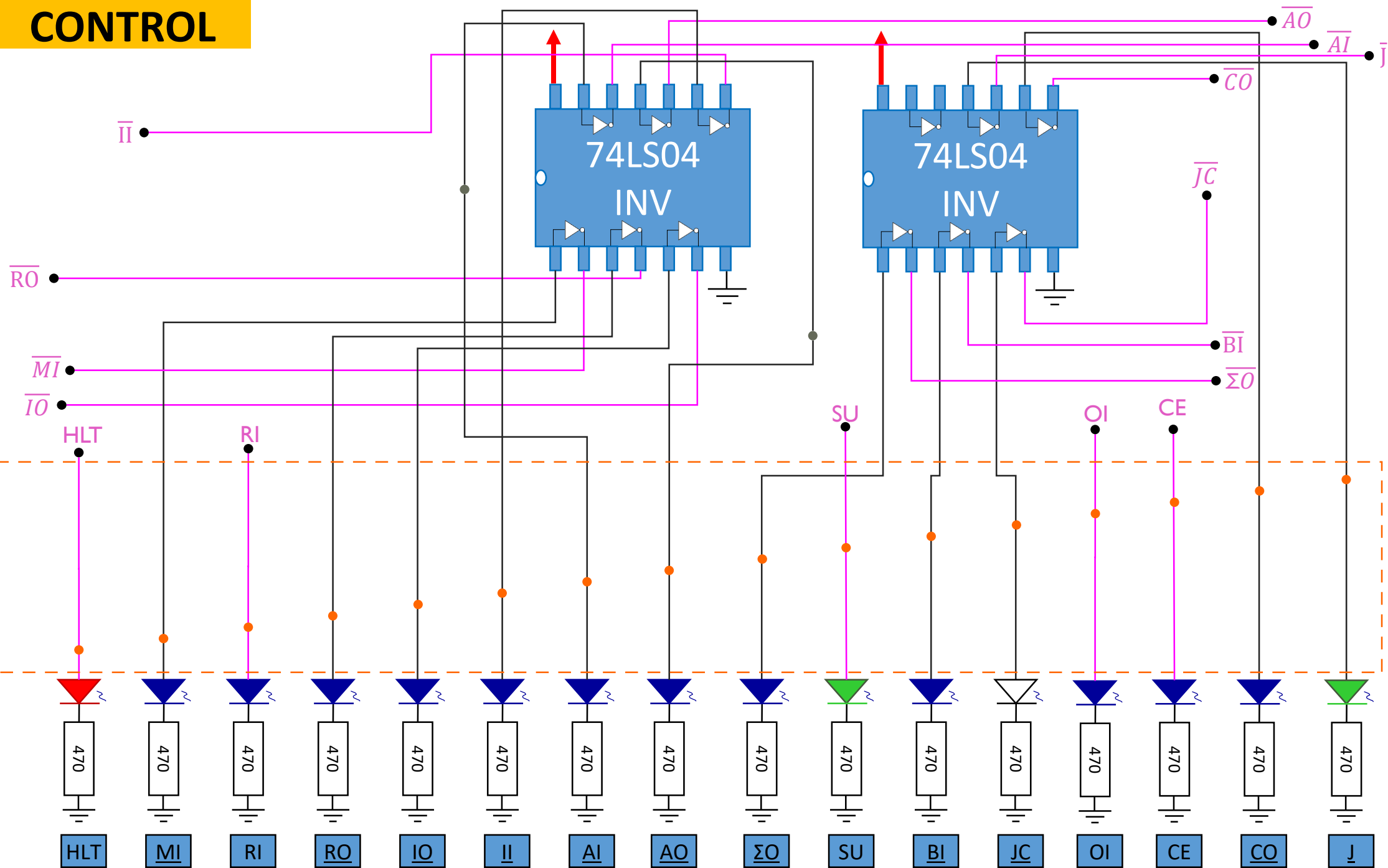
ALU



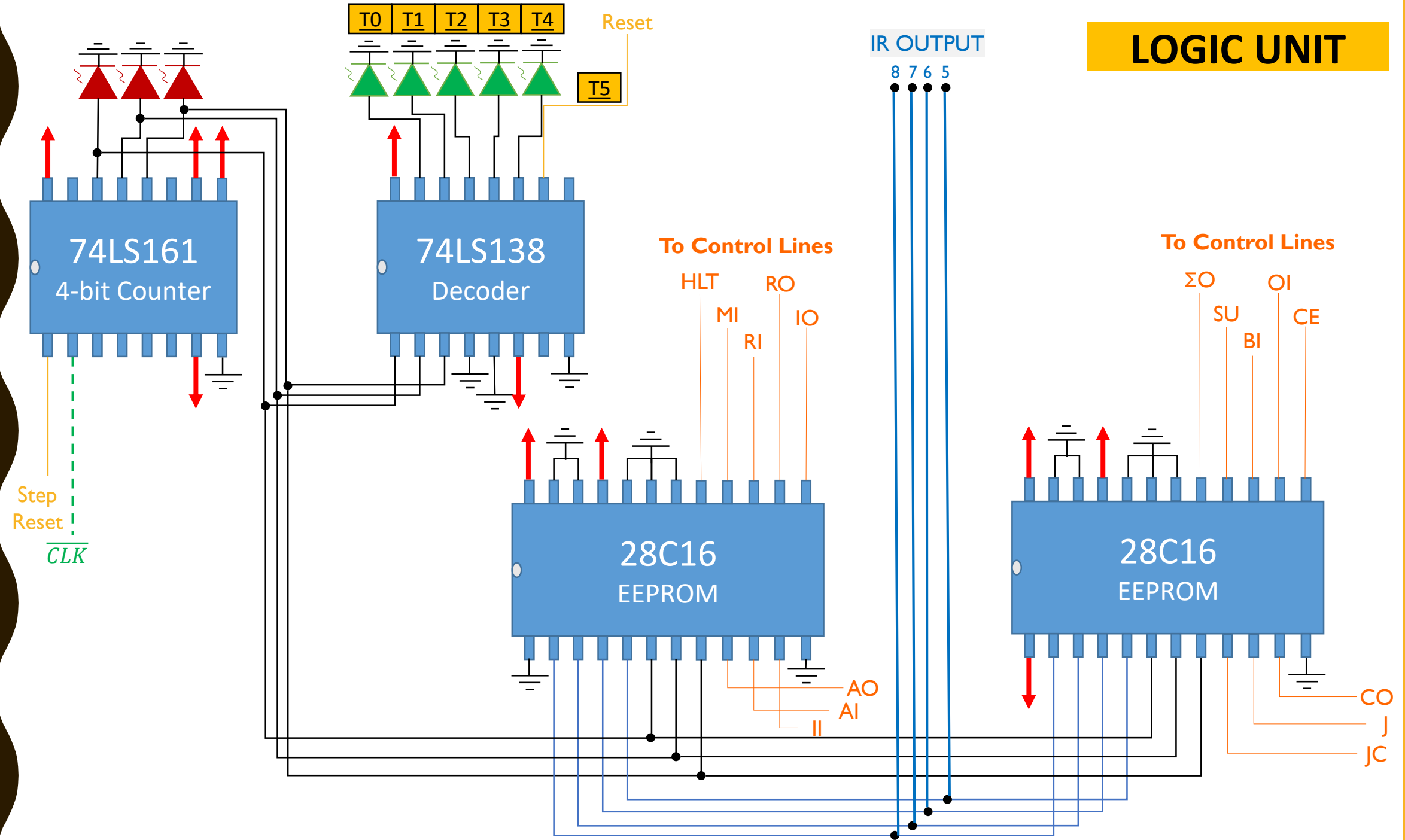
OUTPUT (4X1 DIGIT)



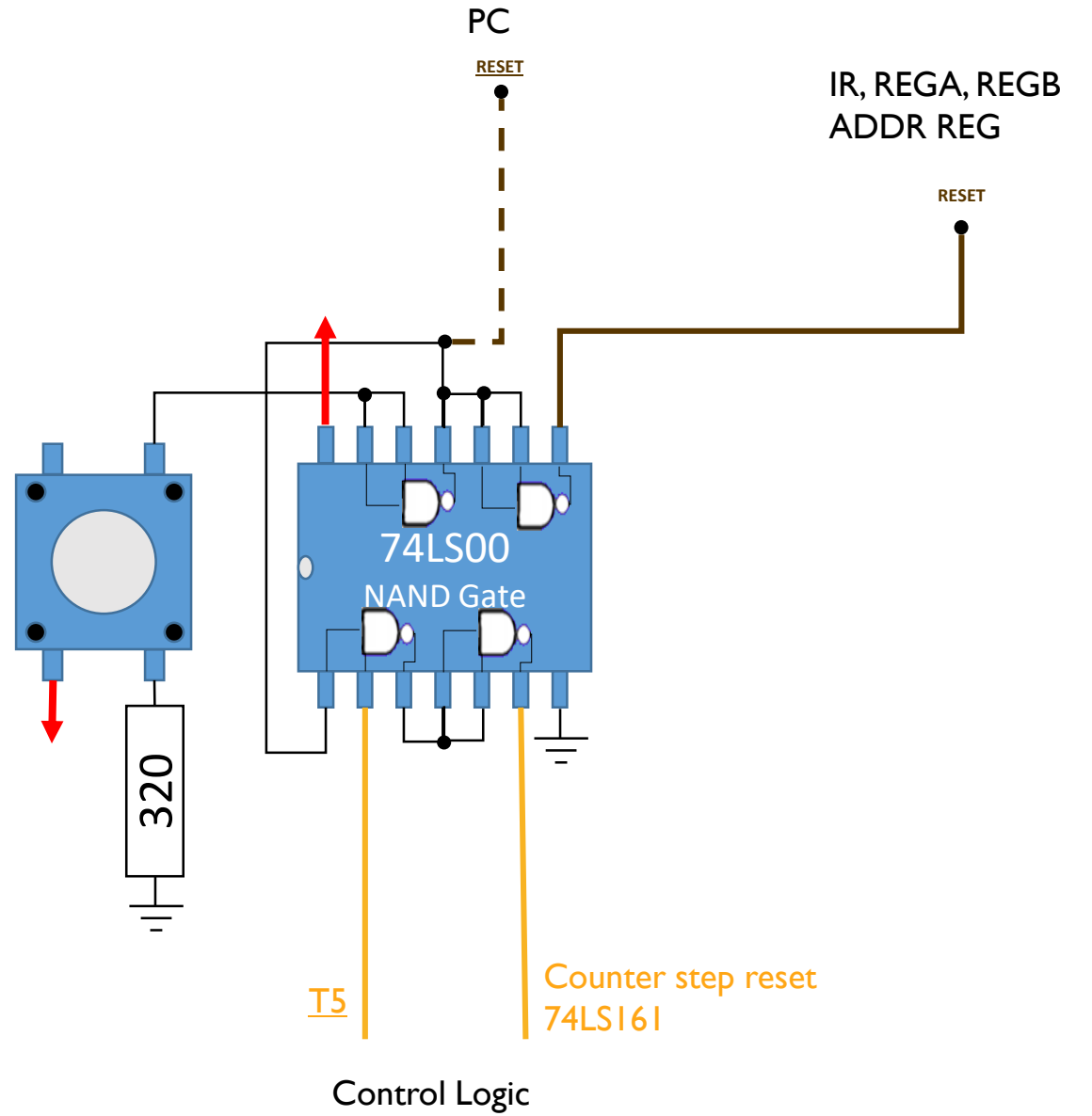
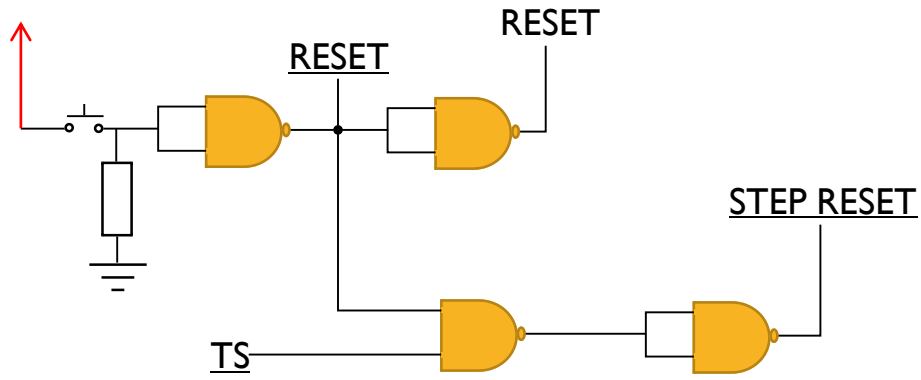
CONTROL



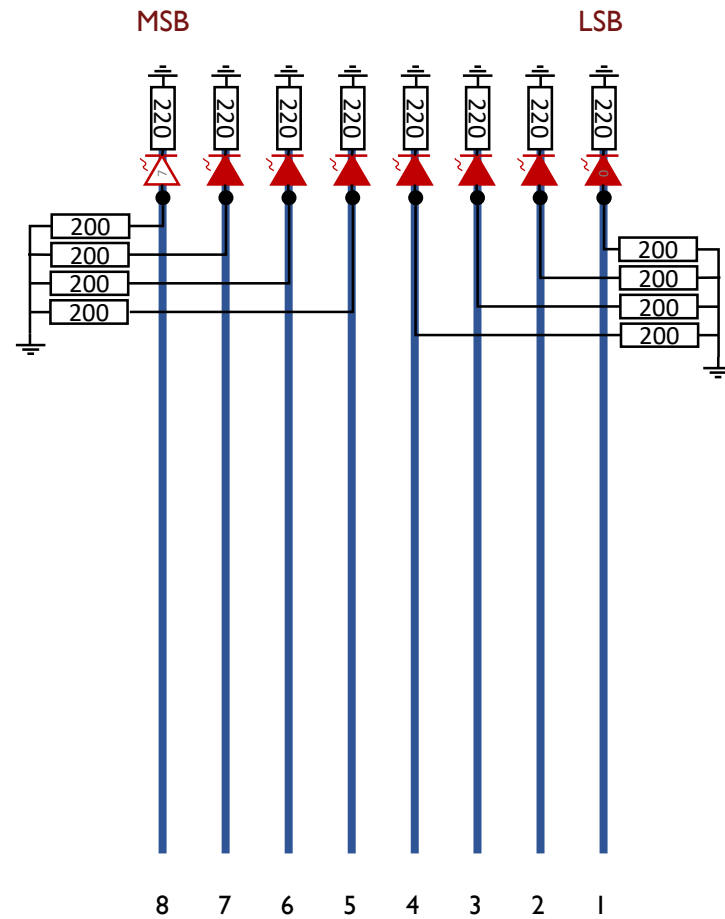
LOGIC UNIT



MASTER RESET



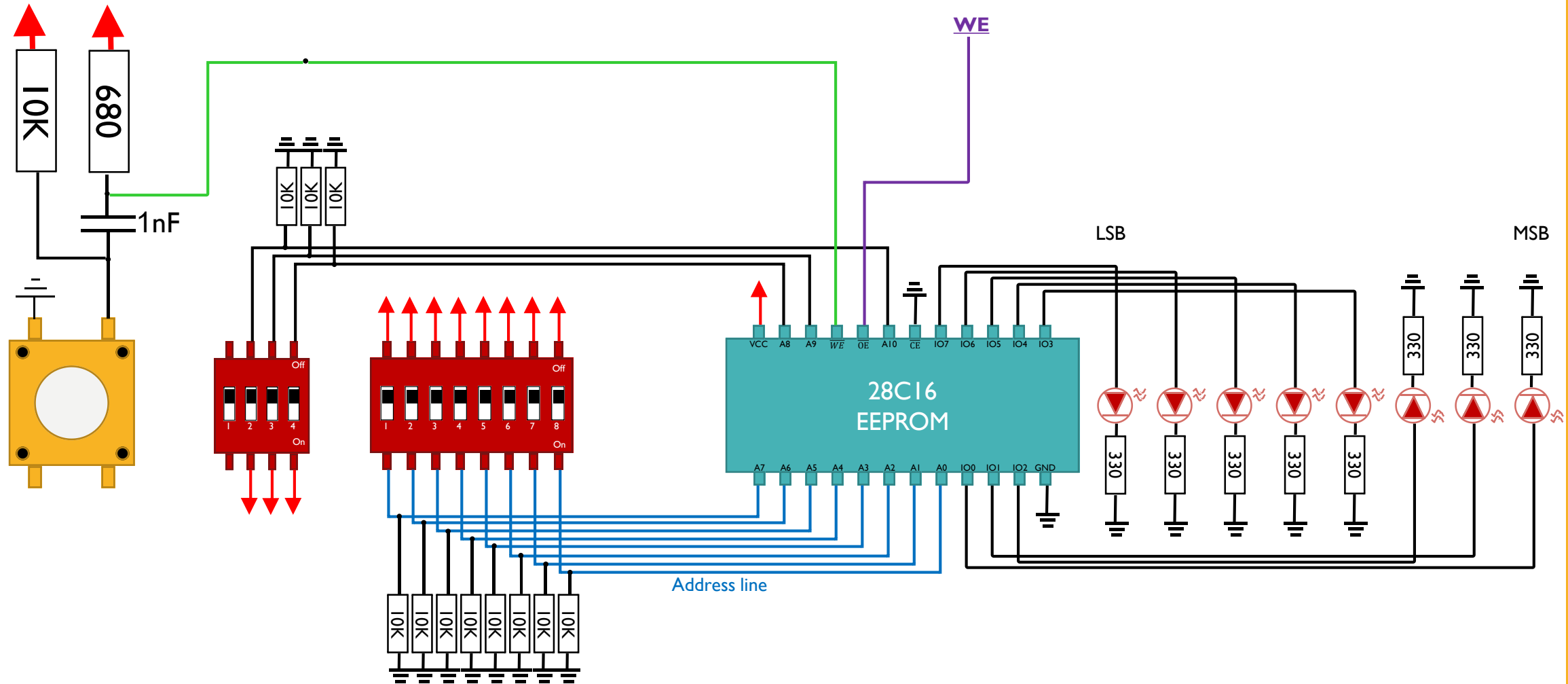
THE BUS



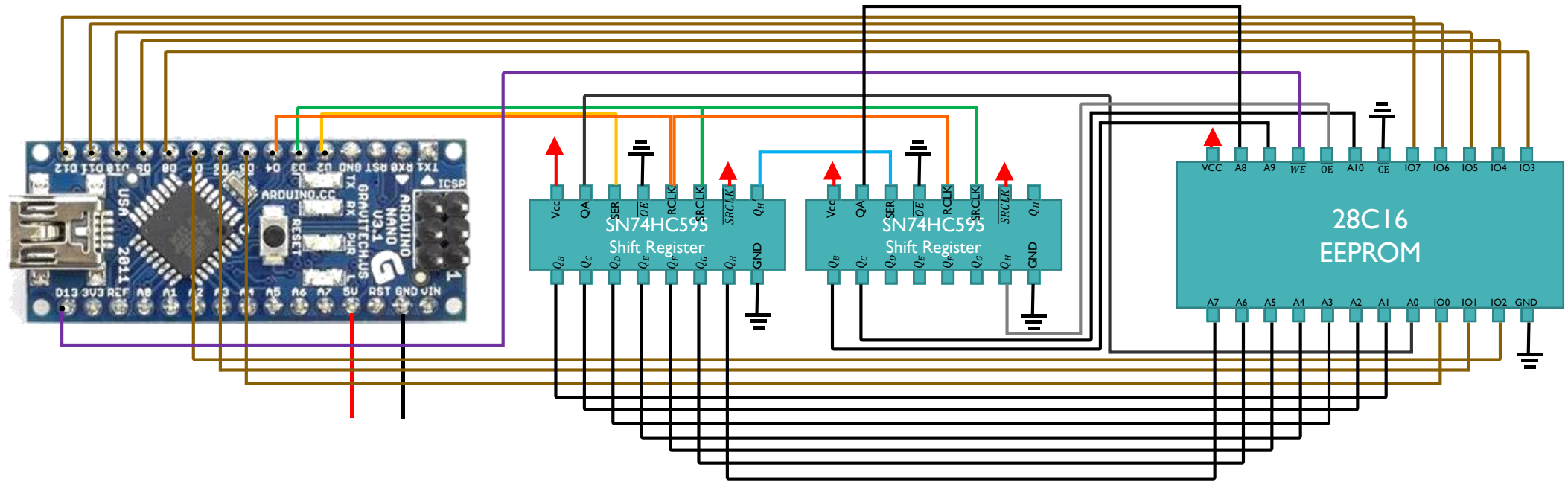


PROGRAMMING

EEPROM PROGRAMING WITH DIP SWITCH



EEPROM PROGRAMING WITH ARDUINO



BINARY TO DECIMAL DISPLAY

