EE306 Introduction to Computing

Lab 2 (due on 10/16, 9pm, on GitHub)
Course Instructor: Dr. Nina Telang

All Lab assignments must be completed individually. You are not permitted to seek help or clarification from anyone other than the instructor or the TAs.

Your file should be named exactly after your EID, for example, xy1234.asm. Your program will not be graded if you fail to follow the file naming convention.

Purpose: The purpose of this assignment is to write a program in **LC-3 assembly language** code to find the larger of two 8-bit unsigned numbers. The two unsigned numbers are specified in memory locations x3300 and x3301. Each 8-bit unsigned number is stored in bits [7:0], with zeros in bits [15:8].

Your program should store the larger of these two unsigned numbers in memory location **x3302**.

Example: If the memory location x3300 contains 0000000001111100 (x007C), and memory location x3301 contains 0000000000111111 (x003F), then your program should:

Store x007C in memory location x3302.

Notes:

- The first line of your program must specify the memory address of the first instruction of your program. The LC-3 simulator will place your program starting at that address. For this assignment, you should place your program starting at **x3000** (i.e. the first line of your program needs to be .ORIG x3000).
- Use the LC3Edit program to type in your programs. Your program needs to be in LC-3 assembly language. Please ask any TA or Dr. Telang if you have any questions.
- **Your file should be named exactly after your EID, for example, xy1234.asm. Your program will not be graded if you fail to follow the file naming convention.**