CMSC 240: Principles of Computer Organization Assignment#3

Due in class on Thursday, March 20, 2025.

Description: Write an LC-3 machine language program to compute the minimum value stored in 10 consecutive memory locations.

Notes:

- 1. You will need to store 10 random values in consecutive memory locations. You may use any values. Store them starting from location x3030. A data file will be provided for the sake of submission.
- 2. Leave the minimum value found in register R1.
- 3. Store your program starting from memory location x3000
- **4.** Start by writing the program in pseudocode (and/or a flowchart), choose registers for variables used in psuedocode. Encode the pseudocode in LC-3 instructions. Make generous use of comments.

What to Hand in

Submit a stapled printout containing the following: A printout of your program (.bin file), a snapshot of the Simulator screen showing contents of all registers after running the program on the data file provided. A short personal reflection on the exercise.