

CS150 - Computer Organization
Programming Assignment #1 - Fall 2009

Write an LC-3 machine program that determines the maximum and minimum values of an array. Your program should start in memory location $x3000$; the max and min values should be stored in memory locations $x3050$ and $x3051$, respectively. Test your program by executing it using the LC-3 simulator.

The the number of elements in the array should be placed in the memory location immediately following your program, and then the values in the array should follow this number.

For this assignment, you should turn in a (paper) copy of your program. Your program should be written in binary (i.e., 1's and 0's). Each instruction line should contain a comment with the mnemonic opcode and operands for the instruction.