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ENEE 350 Homework Set 7 Fax 301-314-9281
Programming Assignment 2
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(Due: Class 17, Tues., June 26, 2012)
Write, assemble and run successfully on the simulator a Mac-1 subroutine $\min (\mathbf{n}, \mathbf{x})$ that returns in the AC the address of the integer possessing the algebraically smallest value among the n integers in the array whose starting address is x . Your subroutine should be tested with the main program shown below, which defines how the parameters are passed. If there is more than one such minimum value, then return the highest address among the set of them.


Hand in a copy of the main program symbolic assembly listing, the subroutine symbolic assembly listing, the contents of (macro) memory after "load main sub" (i.e., of main.abs) before execution of the program, and the contents of memory after execution of the program. Highlight and comment upon the final answers. Specify what values are contained in the addresses specified by ans1, ans2, and ans3.

