

Assignment

- 1- Write a subroutine that finds the maximum number in a list of 16-bit-numbers stored in memory. The subroutine assumes that:
 - The address of the first number in the list is passed in register X.
 - The number of numbers in the list is passed on the stack (one byte).

The maximum number should be returned in register D.

- 2- Consider the following instructions. Indicate what addressing mode(s) is (are) used, what the effective address(es) is (are). For the last 4, show what the value of the Y register will be after the instruction. Assume for each part that the Y register starts with a value of \$1100 ($Y = \1100), and that the first byte of the instruction is at address \$2000 ($PC = \2000).

- (a) LDAA \$4A
- (b) STAA \$1101
- (c) LDD #\$AC12
- (d) LDX 5432,Y
- (e) SUBA 8,+Y
- (f) DEC 2,Y-
- (g) MOVW #\$ABCD,8,+Y

Please submit your answers by mail to mostafa.a.arafa91@eng.asu.edu.eg not later than Tuesday 26th January 2015 00:00 (midnight).

Good Luck