

CS30000 Assignment #1 (100 points, Due: Mon. Sept. 11)

1. Addressing Modes (25 POINTS)

#	*
0C90	003600
#	*
3030	003600
#	*
3600	103000
#	*
4390	00C345
#	*
5000	00C303
#	*
5390	00E0B1
#	*
6390	00C303
#	*
6600	006390
#	*
C303	003030
#	*

Suppose (B)=006000, (PC)=003000, and (X)=000090. For each of the following instructions (in hexadecimal), indicate its addressing mode(s) (in detail), compute its target address by showing and following the address computation formula, and indicate the value fetched. 018C00, 0310C303, 034600, 024600, 012600, 03C300, 00C300.

- (10 POINTS) Please write a SIC/XE program which searches a targeted integer in a sequence of integers. If found, return the index (beginning from 0). Otherwise, return -1.
- Textbook: Page 40, Exercises, SECTION 1.3, PROBLEM 2 (10 POINTS), 6 (10 POINTS), 9 (10 POINTS), 11 (15 POINTS), 13 (20 POINTS).