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Homework 5
Assembly Language

1. Suppose

AX contains 0500h   Offset 1000h contains 0100h

BX contains 1000h   Offset 1500h contains 0150h

SI contains 1500h   Offset 2000h contains 0200h

DI contains 2000h   Offset 3000h contains 0400h

                    Offset 4000h contains 0300h

and BETA is a word variable whose offset address is 1000h

For each of the following instructions, if it is legal, give the source offset address or register and the result stored in the destination.

a) MOV   DI, SI

b) ADD   AX, [SI]

c) LEA   BX, BETA[BX]

d) ADD   BH, [BL]

e) MOV   AX, [BX + DI + BETA]

	Source offset	result
a)	SI	1500h
b)	0500h + 1500h	0200h
c)	BETA + 1000h	0200h
d)	illegal source	register
e)	1000h + 2000h + 1000h	0300h