30 pts	Name: _	
	Class Day / Time: _	
	Due Date: _	

Lab #15 – Structures and Macros

- 1) Create a structure named **MyStruct** containing two fields:
 - field1, a single word, and
 - field2, an array of 20 doublewords.

The initial values of the fields may be left undefined.

The structure created in question # 1 (MyStruct) will be used in questions #2 through #10:

- 2) Declare a **MyStruct** variable with default values.
- 3) Declare a **MyStruct** variable that initializes the first field to zero.
- 4) Declare a MyStruct variable and initialize the second field to an array containing all zeros.
- 5) Declare a variable as an array of 20 MyStruct objects.
- 6) Using the MyStruct array from question #5, move field1 of the first array element to AX.

7) Using the MyStruct array from question #6, use AX to field1 . Hint: Use the PTR operator.	ESI to index to the third array element and move
8) What value does the expression TYPE MyStruct	return?
9) What value does the expression SIZEOF MyStru	ct return?
10) Write an expression that returns the number of	of bytes in field2 of MyStruct .
11) Assume that the following structure has been	defined:
RentalInvoice STRUCT invoiceNum BYTE 5 DUP(' ') dailyPrice WORD ? daysRented WORD ? RentalInvoice ENDS	
State whether or not each of the following declara	ations is valid:
a. rentals RentalInvoice <> b. RentalInvoice rentals <> c. march RentalInvoice <'12345',10,0> d. RentalInvoice <,10,0> e. current RentalInvoice <,15,0,0>	Valid? Valid? Valid? Valid? Valid?
12) Using the following Triangle structure, declare (0,0), (5, 0), and (7,6): (Use the COORD struct define	
Triangle STRUCT Vertex1 COORD <> Vertex2 COORD <> Vertex3 COORD <> Triangle ENDS	

