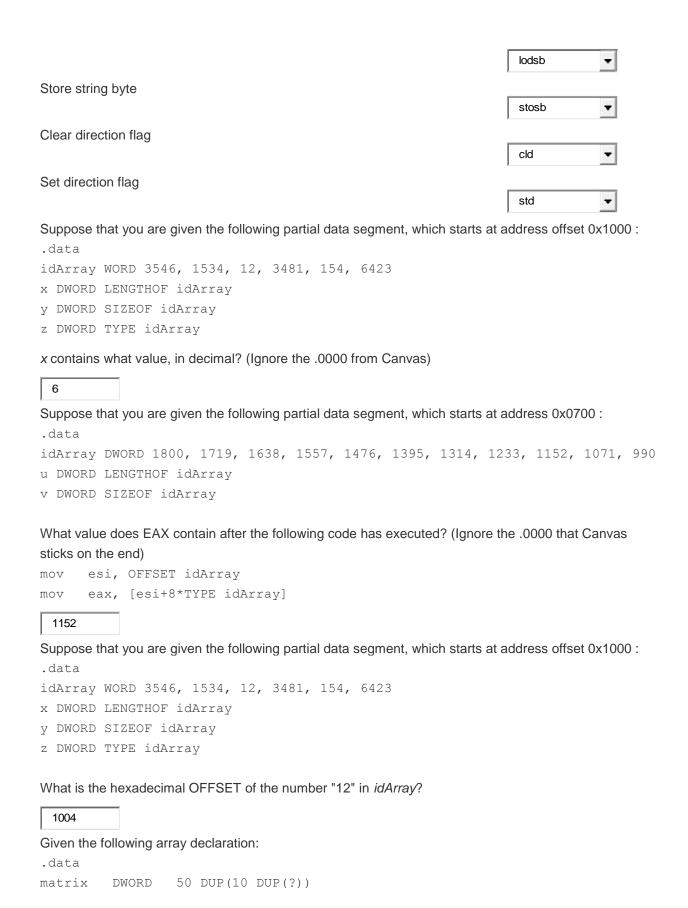
For the following segment, what is SIZEOF myChecker (in decimal - ignore the .0000 from Canvas)			
.dat	a		
myCh	ecker	BYTE	12h,
			34h,
			56h,
			78h,
			90h
5			
The		onerator	returns a value that is equivalent to multiplying the number of elements in a
_	e data decl		y the size, in bytes, of a single element of a data declaration.
0	TYPE		
_			
0	OFFSET		
0	LENGT	HOF	
•	SIZEOF		
	SIZEOF		
0	PTR		
The		operator	returns the distance in bytes, of a label from the beginning of its enclosing
			egment register.
0	SIZEOF		
0	PTR		
\circ	TYPE		
0	LENGT	HOF	
\odot	OFFSET		
Storin	ng a string	byte usin	g string primitives increments/decrements which register?
0	EDX		
0	ESI		
0	ESP		
\odot	EDI		
Match the string primitive to its purpose.			
Load string byte			



If **matrix[0][0]** is the 0th sequentially stored BYTE in memory, which sequentially stored BYTE is the first byte corresponding to matrix[10][4]? (in decimal - ignore the .0000 from Canvas)

Assume that your program has access to the following data segment (starting at address 0x310):

.data

What is the hexadecimal address of matrix[7][3] (the 4th element of the 8th row)?

x03A6

Which of the following postfix expressions corresponds to the given infix expression?

Which of the following infix expressions corresponds to the given postfix expression?

$$(4+5)^{(5-3)/4}$$

$$0 + 5 \cdot 5 - 3 / 4$$

$$\bullet$$
 (4 + 5) ^ 5 - 3 / 4

$$\circ$$
 (4 + 5) 5 / 3 - 4

Which of the following FPU manipulations corresponds to the given infix notation?

$$Z = (A + B - C) / D * E$$

```
fmul
     fstp
finit
    fld
             Α
     fld
             В
     fadd
     fld
             \mathsf{C}
     fsub
     fld
             D
     fmul
     fld
             Ε
     fdiv
     fstp
             Ζ
    finit
     fld
             Α
     fld
             В
     fsub
     fld
             С
     fadd
     fld
             D
     fdiv
     fld
             Ε
     fmul
     fstp
             Ζ
finit
    fld
             Α
     fld
             В
     fadd
     fld
     fsub
     fld
             D
     fdiv
     fld
             Ε
     fmul
     fstp
             Ζ
3<sup>rd</sup> one wrong
The _____ operator returns the size, in bytes, of a single element of a data declaration.
\circ
    SIZEOF
0
    OFFSET
•
    TYPE
```

0

LENGTHOF

PTR

MASM will throw an error when assembling the following data segment:

.data

```
myChecker BYTE 12h
BYTE 34h
BYTE 56h
BYTE 78h
BYTE 90h
```

- True
- False

Which of the following is the correct addressing formula for matrix index $M_{r,c}$ Mr,c?

- \bigcirc BaseAddress + elementsPerColumn $\cdot [(c \cdot elementSize) + r]$
- \bigcirc BaseAddress + elementSize $\cdot [(c \cdot elementsPerColumn) + r]$
- \bullet BaseAddress + elementSize \cdot [$(r \cdot elementsPerRow) + c$]
- \bigcirc BaseAddress + elementsPerRow $\cdot [(r \cdot elementsSize) + c]$

If the string direction flag is not set, string operations will move backward through the string.

True

False

Suppose that you are given the following partial data segment:

```
.data
```

```
myPtrCheck BYTE 12h, 34h, 56h, 78h, 90h, ABh, CDh, EFh .code ...
mov eax, DWORD PTR [myPtrCheck+2]
```

EAX contains what value, in hexadecimal?

AB907856h

0hAB907856

xAB907856

AB907856

0xAB907856

Given the following array declaration, how many bytes of memory does array *matrix* require? (in decimal ignore the .0000 from Canvas)

```
.data
matrix WORD 13 DUP(15 DUP(?))
```

390

Given the following array declaration:

```
.data
matrix DWORD 50 DUP(10 DUP(?))
```

If **matrix[0][0]** is the 0th sequentially stored BYTE in memory, which sequentially stored BYTE is the first byte corresponding to matrix[3][7]? (in decimal - ignore the .0000 from Canvas)

148

Which of the following postfix expressions corresponds to the given infix expression?

$$(13 + 14 - 3 + 2) / 2 ^ 3$$

- 1314+3-2+23/^
- 13 14 + 3 2 + 2 3 ^/
- 1314+32+-23^/
- 13 14 + 3 2 + 2 3 ^ /

Which of the following infix expressions corresponds to the given postfix expression?

- $(3+5) \wedge (4-2*3/6)$
- 3+5^(4-2*3/6)
- O 3/5*(4-2^3+6)

Which of the following infix notations corresponds to the given FPU manipulations? A B / C D - * E -

finit
fld A
fld B
fdiv
fld C
fld D
fsub
fmul
fld E

fsub fstp Z

- Y = A * B / (C D) E
- Y = A / B * (C D) E
- O Y = A / B * C D E
- Y = A / B * (C D E)