Summary Exercise - Week 8

Due Nov 24 at 11:59pm

Points 21

Questions 13

Available Nov 17 at 12am - Nov 24 at 11:59pm 8 days

Time Limit 360 Minutes

Allowed Attempts 2

Take the Quiz Again

Attempt History

| | Attempt | Time | Score |
|--------|-----------|------------|--------------|
| LATEST | Attempt 1 | 43 minutes | 21 out of 21 |

Score for this attempt: 21 out of 21

Submitted Nov 20 at 6:50pm This attempt took 43 minutes.

| | Question 1 | 1 / 1 pts |
|----------|--|-----------|
| | The operator overrides the default type of a label (variable can also be used to combine elements of a smaller data type and movinto a larger operand. | • |
| | O TYPE | |
| | LENGTHOF | |
| | SIZEOF | |
| Correct! | ● PTR | |
| | OFFSET | |

Question 2 1 / 1 pts

| | The operator returns the distance in bytes, of a label from the beginning of its enclosing segment, added to the segment register. |
|----------|--|
| | O PTR |
| | O TYPE |
| | SIZEOF |
| | LENGTHOF |
| Correct! | OFFSET |

| | Question 3 1/1 | pts |
|----------|---|-----|
| | The operator returns the size, in bytes, of a single element of data declaration. | а |
| | SIZEOF | |
| Correct! | TYPE | |
| | OFFSET | |
| | PTR | |
| | LENGTHOF | |

| Question 4 | 1 / 1 pts |
|--|--------------|
| Loading a string byte using string primitives increments or decre register? | ements which |

Correct!

ESI

ESP

EDI

Question 5 1 / 1 pts

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

Correct!

$$BaseAddress + elementSize \cdot [(r \cdot elementsPerRow) + c]$$

$$BaseAddress \ + \ elementsPerColumn \cdot [(c \cdot elementSize) + r]$$

$$BaseAddress \ + \ elementsPerRow \cdot [(r \cdot elementsSize) + c]$$

$$BaseAddress + elementSize \cdot [(c \cdot elementsPerColumn) + r]$$

Question 6 2 / 2 pts

Suppose that you are given the following partial data segment, which starts at address offset 0x1000:

```
.data
idArray WORD 3546, 1534, 12, 3481, 154, 6423
x DWORD LENGTHOF idArray
```

```
y DWORD SIZEOF idArray
              z DWORD TYPE idArray
              z contains what value, in decimal? (Ignore the .0000 from Canvas)
 Correct!
                   2
orrect Answers
                  2 (with margin: 0)
```

```
Question 7
                                                                         2 / 2 pts
             Suppose that you are given the following partial data segment:
             .data
             myPtrCheck BYTE
                                     12h, 34h, 56h, 78h,
                                     90h, ABh, CDh, EFh
             .code
                    eax, DWORD PTR myPtrCheck
             mov
             EAX contains what value, in hexadecimal?
                  78563412h
orrect Answers
                 0h78563412
                 78563412
                 78563412h
                 0x78563412
                 x78563412
```

```
2 / 2 pts
Question 8
```

Suppose that you are given the following partial data segment, which starts at address offset 0x1000:

```
.data
```

Correct!

idArray WORD 3546, 1534, 12, 3481, 154, 6423 x DWORD LENGTHOF idArray y DWORD SIZEOF idArray z DWORD TYPE idArray y contains what value, in decimal? (Ignore the .0000 from Canvas) 12 orrect Answers 12 (with margin: 0)

Correct!

Correct!

Question 9 2 / 2 pts 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[6][4]? (in decimal - ignore the .0000 from Canvas) 256 orrect Answer 256

> 2 / 2 pts **Question 10**

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

.data WORD 11 DUP(36 DUP(?)) matrix

792

orrect Answer

792

Question 11 2 / 2 pts

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

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

- 0 13 14 + 3 2 + 2 3 ^ /
- 13 14 + 3 2 + 2 3 / ^
- 0 13 14 + 3 2 + 2 3 ^ /

Correct!

• 13 14 + 3 - 2 + 2 3 ^ /

Question 12

2 / 2 pts

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

- 2 ^ 3 / 5 * 4 + 10
- 2 ^ 3 / 5 * (4 + 10)

Correct!

Question 13 2 / 2 pts

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

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

```
finit
fld A
fld B
fadd
fld C
fsub
fld D
fmul
fld E
fdiv
fstp Z
```

finit

fld A

fld B

fsub

fld C

fadd

fld D

fdiv

fld E

fmul

fstp Z

Correct!

finit
fld A
fld B
fadd
fld C
fsub
fld D
fdiv
fld E
fmul
fstp Z

```
finit

fld A

fld B

fadd

fld C

fsub

fld D

fdiv

fld E

fmul

fstp
```

Quiz Score: 21 out of 21