Summary Exercise - Week 2

Due Oct 13 at 11:59pm

Points 16

Questions 16

Available after Oct 6 at 12am

Time Limit 360 Minutes

Allowed Attempts 2

1 / 1 pts

Attempt History

	Attempt	Time	Score	
KEPT	Attempt 2	70 minutes	16 out of 16	
LATEST	Attempt 2	70 minutes	16 out of 16	
	Attempt 1	85 minutes	14 out of 16	

Score for this attempt: 16 out of 16

Question 2

Submitted Oct 9 at 3:57am
This attempt took 70 minutes.

Convert the following string into its ASCII hex representation. Don't use 0x or h with the hex values. The hex for "1+z" is 31 2B 7A Studio Correct! 53 74 75 64 69 6F 53 74 75 64 69 6F

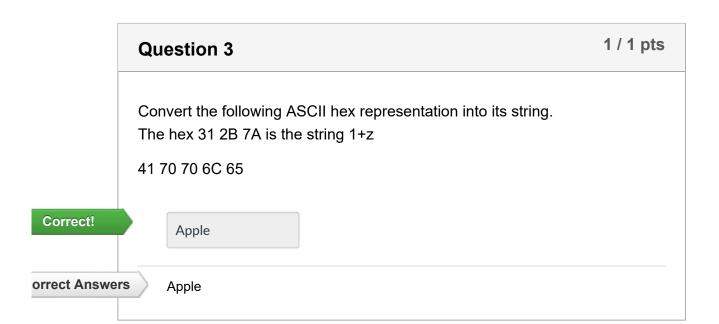
Convert the following string into its ASCII hex representation. Don't use 0x or h with the hex values. The hex for "1+z" is 31 2B 7A Computer

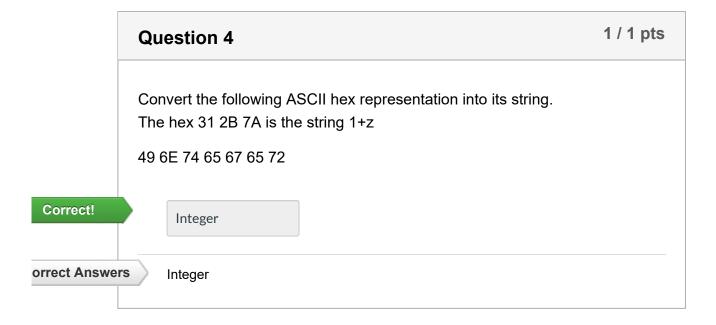
Correct!

43 6F 6D 70 75 74 65 72

orrect Answers

43 6F 6D 70 75 74 65 72



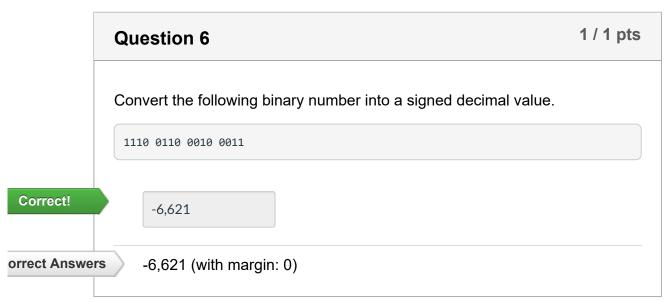


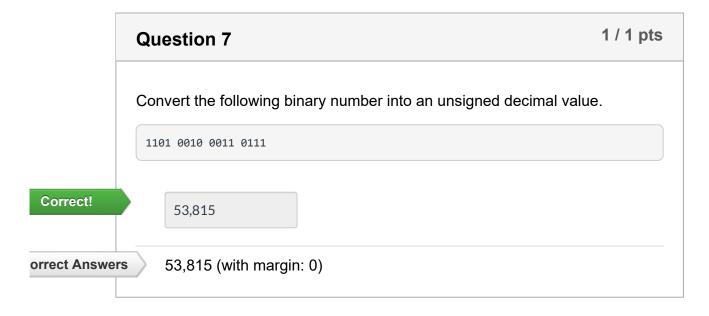
Question 5

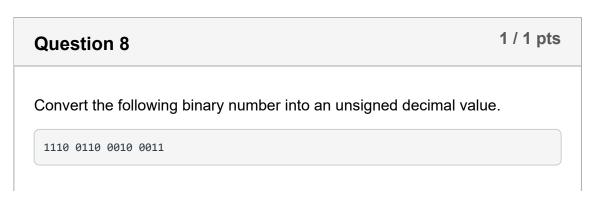
Convert the following binary number into a signed decimal value.

1011 1001 0101 0000









Correct!

58,915

orrect Answers

58,915 (with margin: 0)

```
The following data segment starts at memory address 0x2300 (hexadecimal)
.data
printString BYTE "Assembly is fun",0
moreBytes BYTE 48 DUP(0)
dateIssued DWORD?
dueDate DWORD?
elapsedTime WORD?

What is the hexadecimal address of dueDate?

Ox2310

Ox2340

Ox2368
```

```
The following data segment starts at memory address 0x1600 (hexadecimal)
.data
printString BYTE "MASM is fun",0
moreBytes BYTE 17 DUP(0)
dateIssued DWORD ?
dueDate DWORD ?
elapsedTime WORD ?
```

What is the hexadecimal address of dueDate? Ox1621 Ox161D Ox1633 Ox160C

The following data segment starts at memory address 0x1000 (hexadecimal) .data printString BYTE "Do not add decimal to hex",0 someBytes WORD 27 DUP(0) moreBytes BYTE 10, 20, 30, 40, 50, 60, 70, 80, 90 questionAddr DWORD ? ignoreMe WORD ? What is the hexadecimal address of questionAddr? Correct! Ox1059 Ox1059 Ox101A Ox1089

Question 12 1 / 1 pts

After the following MASM code is executed:

eax, 19 mov ebx, 18 mov ecx,17 movadd eax, ebx sub eax,ecx

20 What is the value in the eax register (in decimal)?

What is the value in the ebx register (in decimal)? 18

17 What is the value in the ecx register (in decimal)?

Answer 1:

Correct!

20

Answer 2:

Correct!

18

Answer 3:

Correct!

17

Question 13

1 / 1 pts

After the following MASM code is executed:

eax,212 mov mov ebx, 19 edx,0 mov div ebx

What is the value in the eax register (in decimal)? 11

What is the value in the ebx register (in decimal)?

What is the value in the edx register (in decimal)?

Answer 1:

Correct!

11

Answer 2:

Correct!

19

Answer 3:

1 / 1 pts **Question 14** Suppose that result is declared as DWORD, and the following MASM code is executed: mov eax,9 mov ebx,6 mov ecx, 6 label5: add eax, ebx add ebx,2 loop label5 mov result, eax What is the value stored in the memory location named result? Correct! 75 75 (with margin: 0) orrect Answers

Question 15 1 / 1 pts

Please place the following steps of the instruction execution cycle in their proper order. Correct! Step 1: Fetch the instruction at th Correct! Step 2: Increment the Instruction Correct! Step 3: Decode the instruction in Correct! Step 4: If the instruction requires Correct! Step 5: Execute the instruction. Correct! Step 6: If the output operand is ir ▼

1 / 1 pts **Question 16** Select the pseudo-code that most closely corresponds to the following assembly code. Assume that the variables a, b, c, and d are initialized elsewhere in the program. Pay close attention to the conditional jumps, the corresponding pseudo code may surprise you! .data ; General purpose variables DWORD ? а b DWORD С BYTE ? BYTE ? upperLevel DWORD 18 3 lowerLevel DWORD

```
; Strings
              "Yes",0
yes
      BYTE
               "No",0
      BYTE
no
maybe BYTE
                "Maybe", 0
.code
  main PROC
  mov
       eax, a
  cmp eax, b
   jle option1
   je option2
   jmp
       option3
option1:
   mov
       edx, OFFSET yes
   call WriteString
   jmp
       endOfProgram
option2:
   mov
       edx, OFFSET no
   call WriteString
       endOfProgram
   jmp
option3:
   mov
       edx, OFFSET maybe
   call WriteString
endOfProgram:
   exit
main ENDP
END main
     if (a < b)
      print (yes);
     else if (a == b)
       print (no);
     else
      print (maybe);
     if (a < b) OR (a == b)
       print (yes);
     else
       print (maybe);
```

Correct!

```
if (a > b) OR (a == b)
    print (yes);
else
    print (maybe);

if (a > b)
    print (yes);
else if (a == b)
    print (no);
else
    print (maybe);
```

Note that the "jle" instruction jumps if the comparison is less than or equal, so the "je" (jump if equal) instruction never jumps.

Quiz Score: 16 out of 16