

# Quiz #1

**Due** Oct 13 at 11:59pm

**Points** 8

**Questions** 8

**Available** Oct 10 at 12am - Oct 13 at 11:59pm 4 days

**Time Limit** 60 Minutes

## Instructions

You have 60 minutes to complete this quiz. Once you begin the quiz you must complete it in one session.

For this quiz, you are allowed to refer to your notes/textbook, as well as use any calculator.

## Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	39 minutes	8 out of 8

Score for this quiz: **8** out of 8

Submitted Oct 12 at 6:33pm

This attempt took 39 minutes.

Question 1		1 / 1 pts
Match the Instruction Execution steps to the correct order and description.		
Correct!	Step 1	The control unit fetches t ▼
Correct!	Step 2	The control unit incremer ▼
Correct!	Step 3	The control unit decodes ▼
Correct!	Step 4	If the instruction uses an i ▼
Correct!	Step 5	

The ALU executes the ins ▼

Correct!

Step 6

If the output operand is ir ▼

## Question 2

1 / 1 pts

Convert the following binary number into a signed decimal value.

1100 0011 0100 0110

Correct!

-15,546

Correct Answers

-15,546 (with margin: 0)

## Question 3

1 / 1 pts

After the following MASM code is executed:

```
mov    eax, 37
mov    ebx, 23
mov    ecx, 11
add    eax, ebx
sub    eax, ecx
```

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

49

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

23

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

11

Answer 1:

Correct!

49

**Answer 2:**

Correct!

23

**Answer 3:**

Correct!

11

## Question 4

1 / 1 pts

Given the following MASM code using Irvine's library:

```
mov     eax,1
mov     ebx,4
label6:
mul     ebx
call    WriteDec
inc     ebx
cmp     eax,40
jbe     label6
mov     eax,ebx
call    WriteDec
```

Show the output produced by execution of the code.

*Note: There are no line breaks or spaces printed*

Correct!

4201207

Correct Answers

4201207

## Question 5

1 / 1 pts

Suppose that result is declared as DWORD, and the following MASM code is executed:

```
mov     eax,23
```

```
mov ebx,11
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!

119

Correct Answers

119 (with margin: 0)

## Question 6

1 / 1 pts

After the following MASM code is executed:

```
mov    eax,25
mov    ebx,7
mov    edx,0
div    ebx
```

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

3

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

7

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

4

Answer 1:

Correct!

3

Answer 2:

Correct!

7

Answer 3:

Correct!

4

### Question 7

1 / 1 pts

After the following code has finished execution, ECX contains the initial contents of which register?

```
mov edx, eax
mov ebx, ecx
mov ebx, edx
mov ecx, ebx
mov edx, eax
```

☐ EBX

Correct!

☒ EAX

☐ ECX

☐ EDX

### Question 8

1 / 1 pts

Convert the following ASCII hex representation into its string.

The hex 31 2B 7A is the string 1+z

43 6F 6D 70 75 74 65 72

Correct!

Computer

Correct Answers

Computer

Quiz Score: 8 out of 8