List the three primary steps of the instruction execution cycle, in sequential order (even if some are missing).

  fetch, memory read, execute

fetch, decode, memory write

decode, fetch, execute

fetch, decode, execute

 Convert the following binary number into a signed decimal value.

|  |
| --- |
| 1111 0000 0001 1001 |

**Correct!**



After the following MASM code is executed:  
    mov    eax,57  
    mov    ebx,50  
    mov    ecx,50  
    add    eax,ebx  
    sub    eax,ecx  
  
What is the value in the eax register (in decimal)?    
What is the value in the ebx register (in decimal)?    
What is the value in the ecx register (in decimal)? 

Suppose that result is declared as DWORD, and the following MASM code is executed:  
   mov eax,0  
   mov ebx,2  
   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!**



After the following MASM code is executed:  
    mov    eax,212  
    mov    ebx,19  
    mov    edx,0  
    div    ebx  
  
What is the value in the eax register (in decimal)?    
What is the value in the ebx register (in decimal)?    
What is the value in the edx register (in decimal)? 

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

  EDX

ECX

  EAX

EBX

Convert the following ASCII hex representation into its string.  
The hex 31 2B 7A is the string 1+z

|  |
| --- |
| 4D 65 6D 6F 72 79 |

**Correct!**



Which of the following is **NOT**a valid MOV operation?  Table 4-1 might be helpful. (check any/all that apply)

  MOV reg,reg

MOV reg,mem

MOV imm,imm

MOV mem,reg

MOV imm,mem

**!**MOV mem,mem

MOV mem,imm

MOV reg,imm

 Which of the following are valid uses of the XCHG instruction? (check any/all that apply)

  XCHG reg,imm

XCHG mem,reg

XCHG imm,imm

XCHG reg,reg

XCHG imm,reg

XCHG imm,reg

XCHG reg,mem

XCHG mem,mem

 The following instructions will set the Sign flag:

mov al,0FEh  
sub al,2

**Correct!**

  True

False

 Mechanically speaking, the CALL instruction pushes its return address on the stack and copies the called procedure’s address into the  
instruction pointer.

**Correct!**

  True

False

 The \_\_\_\_\_\_\_\_ procedure advances the cursor to the beginning of the next line in the console window.

**Correct!**



Which register contains an integer before calling WriteDec?

**Correct!**

  EAX

EDX

ECX

EBX

EWD

EXA

 Given the following MASM code using Irvine's library:

mov eax,1

mov ebx,4

label6:

mul ebx

call WriteDec

call CrLf

inc ebx

cmp eax,40

jbe label6

mov eax,ebx

call WriteDec

call CrLf

What number is printed on the second line of the output? (Ignore the .0000 that Canvas puts in there)

**Correct!**



Given the following MASM code using Irvine's library:

mov eax,1

mov ebx,4

label6:

mul ebx

call WriteDec

call CrLf

inc ebx

cmp eax,40

jbe label6

mov eax,ebx

call WriteDec

call CrLf

What number is printed on the third line of the output? (Ignore the .0000 that Canvas puts in there)

**You Answered**

