```
l. mov
.data
```

varl BYTE 100

var2 BYTE ?

var3 WORD 2

var4 DWORD 5

.code ; True/False

mov ds, 45 ; X

movesi, var3; X (movzx)

mov eip, var4 ; χ

mov 25, var2 ; X

mov varl, var2; X memory to memory X

2. INC/DEC

.data

myByte BYTE 0FFh, 0

.code

mov al,myByte ; AL = FF h

mov ah,[myByte+1]; AH = 00 h

dec ah

; AH = FFh

ax: FF00 - 1

inc al

; AL = 00 h

dec ax

;AX = FEFF

3. flag

mov al,-128 maybe 0?

neg al ; $CF = 1 OF = \bigotimes 1$

0 - (-128) = +128

mov ax,8000h

add ax,2; CF = OOF = O

mov ax,0

sub ax,2; $CF = | OF = \bigcirc$

- HELLEN HELLEN

mov al,-5

4. PTR

.data

varB BYTE 65h,31h,02h,05h

varW WORD 6543h,1202h

varD DWORD 12345678h

Var W

1202

1 65/43

12345678

.code

mov ax, WORD PTR [varB+2] ; a = 0502

mov bl,BYTE PTR varD

;b= 78 h

mov bl,BYTE PTR [varW+2] ; c= 02 h3

mov ax,WORD PTR [varD+2] ; d= 1234 h

mov eax,DWORD PTR varW ; e= 12026543 h

5. LOOP

What will be the final value in AX?

mov ax,6

mov ecx,4

L1:

inc ax

loop L1

ax = 10

6. OFFSET

Please finish the program below for an array sum.

.386

.model flat,stdcall

.stack 4096

ExitProcess proto,dwExitCode:dword

.data

array WORD 100h, 200h, 300h

.code

mov esi, offset array; address of array

mov ax, [esi]; obtain the first value in ax

add esi, 2; move to next value in array

add ax, [esi]; addition

add ax, [esi]; addition

mov ecx, LENGTHOF array
L1:
add esi, 2
add ax, [esi]

Loop LI