

# Arhitectura Sistemelor de Calcul

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### Question 7

Not yet answered

Marked out of 0.80

 Flag question

Dacă conținutul lui data segment este/ The data segment is:

**a db "246",0**

**len equ (\$-a)\*2**

**format db "%c",0**

care din modalitatile de afisare pe ecran de mai jos afiseaza **246**?

which of the following instruction sets will print to the console the value **246**?

☐

```
mov ecx, len
mov esi, a
mov ebx, (len-1)
shl ebx, 2
add esi, ebx
std
.repeta:
    xor eax, eax
    lodsd
    push eax
    push ecx
    push eax
    push dword format
    call [printf]
    pop ebx
    pop dx
    shl edx, 16
    pop dx
    pop ecx
    pop eax
loop .repeta
```

☐

```
mov ecx, len/2
mov esi, a
add esi, len/2
std
rep lodsb
mov ecx, len-1
shr ecx, 1
cld
.repeta:
    xor eax, eax
    lodsb
    push eax
    push ecx
    mov ebx, esp
    push eax
    push dword format
    call [printf]
    mov esp, ebx
    pop ecx
    pop eax
loop .repeta
```

☐

```
mov ecx, len
shl ecx, 1
mov edi, a
mov esi, edi
std
.repeta:
    xor eax, eax
    mov ax, [esi]
    add esi, 2
    pushad
    push eax
    push dword format
    call [printf]
    add esp, 4*2
    popad
loop .repeta
```

☐

```
mov ecx, (len-1)/2
mov esi, format
cld
rep lodsb
mov ecx, len
.repeta:
    xor eax, eax
    lodsw
    push eax
    push ecx
    push eax
    push dword format
    call [printf]
    pop ecx
    pop ecx
    pop eax
loop .repeta
```

☐

Nici una din variante/  
None of them

☐

```
mov ecx, len-1
mov esi, format
std
rep lodsw
mov ecx, len
.repeta:
    xor eax, eax
    lodsw
    sub eax, '0'
    pushad
    push eax
    push dword format
    call [printf]
    pop ebx
    pop edx
    pop ecx
loop .repeta
```

☐

```
mov ecx, len
shr ecx, 1
sub esi, format
sub esi, len
.repeta:
    xor eax, eax
    mov al, [esi]
    add esi, 1
    push ecx
    push eax
    push dword format
    call [printf]
    pop edx
    pop edx
    pop ecx
loop .repeta
```

☐

```
mov ecx, len
mov esi, format
mov eax, 3
sub esi, eax
cld
.repeta:
    xor eax, eax
    lodsb
    push ecx
    push eax
    push dword format
    call [printf]
    pop ebx
    pop edx
    pop ecx
loop .repeta
```

☐

```
mov ecx, (len-1)*2
mov esi, format-4
shr ecx, 2
cld
.repeta:
    xor eax, eax
    lodsb
    push ecx
    push eax
    push eax
    push dword format
    mov ebx, esp
    add ebx, 8
    call [printf]
    mov esp, ebx
    pop eax
    pop ecx
loop .repeta
```

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