

Arhitectura Sistemelor de Calcul

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Question **4**

Not yet answered

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Se da urmatorul segment de date:

The following data segment is given:

```
segment data use32 class=data
a dd 32768
digits times 32 db 0
```

Secventa de cod urmatoare converteste variabila **a** din baza 10 in baza 2 si stocheaza rezultatul in sirul **digits**:

The next code sequence converts the variable **a** from base 10 to base 2 and stores the result in the string **digits**:

```
segment code use32 class=code
start:
    ; line A
    mov ecx, 32
    mov eax, [a]
et_1:
    ; line B
    ; line C
    mov byte [digits+ebx], '0'
    jmp et_3
et_2:
    mov byte [digits+ebx], '1'
et_3:
    ; line D
    ; line E
    loop et_1
```

Completati liniile A, B, C, D si E astfel incat rezultatul sa fie corect.

Fill the lines A, B, C, D, and E so that the result is correct.

- ☐ A: **mov ebx, 31**
B: **test eax, 1**
C: **jz et_2**
D: **rol eax, 1**
E: **dec ebx**
- ☐ A: **mov ebx, 31**
B: **test eax, 1**
C: **jz et_2**
D: **ror eax, 1**
E: **dec ebx**
- ☐ A: **mov ebx, 31**
B: **test eax, 1**
C: **jnz et_2**
D: **rol eax, 1**
E: **dec ebx**
- ☐ A: **mov ebx, 0**
B: **test eax, 80000000h**
C: **jns et_2**
D: **ror eax, 1**
E: **inc ebx**
- ☐ A: **mov ebx, 0**
B: **test eax, 80000000h**
C: **jns et_2**
D: **rol eax, 1**
E: **inc ebx**
- ☐ A: **mov ebx, 31**
B: **test eax, 1**
C: **jnz et_2**
D: **ror eax, 1**
E: **dec ebx**
- ☐ A: **mov ebx, 0**
B: **test eax, 80000000h**
C: **js et_2**
D: **ror eax, 1**
E: **inc ebx**
- ☐ Niciuna din variantele date
None of the given choises

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