

Arhitectura Sistemelor de Calcul

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Question 1

Not yet answered

Marked out of 0.80

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The following data segment is given:

Se da urmatorul segment de date:

- a db 12h, 34h
- b dd 0a0b0c0dh
- c dd 08070605h
- d dw 1,2,3,4,5

The following code segment is given:

Se da urmatorul segment de cod:

```
mov ax, [a]

push dword 0

shl eax, 16

mov ebx, [b]

;to be replaced

push eax

mov ecx, [d]

add dword [esp + 4], ecx

mov edx, [esp]

;to be replaced

add [esp + 3], al

;to be replaced
```

Replace the commented lines so that the top of the stack will look like this:

Inlocuiti liniile comentate in segmentul de cod astfel incat la finalul executiei varful stivei sa corespunda cu imaginea de mai jos:

```
06 05 0A 0B
68 12 00 34
00 02 00 01
```

☐ Nici o varianta nu este corecta.
No obtion is correct.

☐ mov ax, [b - 1]
mov byte [esp + 1], 0
push dword [c - 2]

☐ mov ax, [a]
and [esp - 2], bx
push dword [c - 2]

☐ mov ax, [a + 1]
mov byte [esp + 1], 0
push dword [b + 2]

☐ mov ax, [d]
and [esp - 2], al
push dword [b - 2]

☐ mov ax, [d]
and [esp + 2], al
push dword [a - 2]

☐ mov ax, [d - 1]
and [esp + 2], al
push dword [b - 2]

☐ mov ax, [c + 3]
and [esp + 2], bl
push dword [a]

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