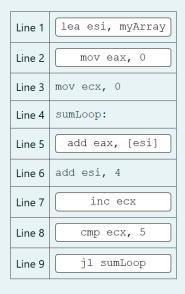
Suppose you are given an array named myArray containing 5 integers. You task is to develop an assembly program to calculate their sum, and store the result in the *eax* register. The instructions you may use to compose this program are provided under the table. Drag-and-drop suitable instructions to fill up line 1 to line 9. Instructions for Lines 3, 4, and 6 are shown already. Complete the rest. (Total 60 marks, i.e. 10 marks for each correct answer.)



lea esi, myArray jl sumLoop add eax, [esi] dec ecx cmp ecx, 5 jnl sumLoop inc ecx mov eax, 0 mov esi, myArray

וווווכ וכוג טילחיים ו

What will be the contents of the stack values after the execution of the following code? Assume we have a stack that grows downward. The initial stack pointer points at the memory cell 0x003CFAD6, and the initial value of each stack space is 00. Dra-and-drop your answer to the end of each stack memory space. (Total 40 marks, i.e. 10 marks for each correct answer.)

mov ax, 1

mov bx, 2

mov cx, 3

add bx, ax

sub cx, ax

push bx

push cx

push ax

0x003CFACE 00

0x003CFAD0 1

0x003CFAD2 2

0x003CFAD4 3

0410032

HITTE TELL 0. 10.07

Identify the operand addressing mode used in the following instructions. **Drag-and-drop** your answer to the end of each instruction. (Total 30 marks, i.e. 10 marks for each correct answer.)

(1) add ebx, ecx register

(2) add cx, 2 constant

(3) mov myVar, ebx memory register constant non-addressing constant+memory pointer

Line 1	start_here: mov ecx, 5	Tim
Line 2	mov esi, 0	
Line 3	repeat_push:	
Line 4	mov eax, myArray [esi]	
Line 5	push eax	
Line 6	inc esi	
Line 7	loop [repeat_push]	
Line 8	mov esi, 0	
Line 9	mov ecx, 5	
Line 10	repeat_pop:pop eax	
Line 11	mov myArray[esi], al	
Line 12	inc esi	
Line 13	loop repeat_push)))	