

Assembly version of single loop code

	Code	Number of accesses
	.data	
values	dw 9	_____
	dw 34	_____
	dw 23	_____
	dw 67	_____
	dw 23	_____
	dw 7	_____
	dw 3	_____
	dw 65	_____
count	dw ?	_____
col_count	dw ?	_____
sum	dw 0	_____
	.code	
	;Initialize ebp to point to values	
	push ebp	_____
	lea ebp, values	_____
	;Initialize count to start of loop	
	mov count, 0	_____
	jmp loop_compare	_____
	;Increment count for next loop	
loop_increment	mov eax, count	_____
	inc eax, 001	_____
	mov count, eax	_____
	;Check count to see if we're done	
loop_compare	cmp count, 008	_____
	jge loop_finished	_____
	;Add 4 times count (offset into array)	
	;to base address of values to get address of	
	;next array item to add, then add it to sum	
	mov eax, count	_____
	mov ecx, sum	_____
	add ecx, dword[ebp+4*eax]	_____
	mov sum, ecx	_____
	;Start loop again	
	jmp loop_increment	_____
	;We're outta here	
loop_finished	nop	_____