CS 271Computer Architecture and Assembly Language

Self-Check for Lecture#5

Solutions are posted

.data

1. Define a MASM constant for your name as a z-byte terminated string.

MY_NAME EQU <"Name 0. Student",0>

2. What is the size of the string in the following MASM data segment declaration?

.data								
stones	BYTE	"You	Can't	Always	Get	What	You	Want.",10,13,0

38 Bytes (Don't forget to count spaces, punctuation, and extra 8-bit numbers.)

3. Solve each problem using the following data segment:

k DWORD ? n DWORD ? yes BYTE no BYTE maybe BYTE	"Yes", 0 "No", 0 "Maybe" ,0	one of the	e operano			nemory. At le or a constant.	east
	es have been initialized. Write ement the following high-level on structures.	j n c	jge mov call	eax, n quit edx, OF WriteSt eax, 2	FSET ye ring	5	
<pre>3.1. while (k < n) { print (yes</pre>	3);	quit: 2.	jmp	again			
k += 2; }		again: m c	mov call	WriteSt	`FSET maj ring	ybe	
3.2. do{ print (may	be) ;	c t	cmp	eax, n again			
k++; while (k < n);		again: m	nov	ecx, 10 eax, ec WriteDe	x		
3.3. for (k = 10; k ; print (k);		c		CrLf			
3.4. for (k = 10; k - print (no)		again: n c	sub add mov call	ecx, n ecx, 10 ecx, 1 edx, OF WriteSt again	FSET no		
		-	1005	agarn			