ACTIVITY 9

1.	Suppose a program has the following .data section.			
	some	eValue DWORD 5 eWord WORD 3 eSignedWord SWORD 2 herSignedWord SWORD –6		
	Writ	e an instruction (or sequence of instructions) that:		
	(a)	Reads the value of someValue from memory into the EAX register.		
	(b)	Reads the value of someSignedWord into BX.		
	(c)	Stores the value 15 into someWord (in memory).		
	(d)	Reads the value of anotherSignedWord into the low 16 bits of EBX and sets the upper 16 bits of EBX to zero.		
		What value will be placed in EBX?		
	(e)	Reads the value of someSignedWord from memory and sign-extends it to 32 bits, placing the result in EAX.		
		What value will be placed in EAX?		
	(e)	Reads the value of anotherSignedWord from memory and sign-extends it to 32 bits, placing the result in EAX.		
		What value will be placed in EAX?		
	(f)	Loads the value 70h into the DS register.		

Supp	Suppose a program has the following .data section.					
.data someValue DWORD 5 someWord WORD 4 anotherWord WORD 3 someSignedByte SBYTE 2						
Are t	Are the following instructions valid or invalid? If invalid, why?					
(a)	mov someValue, 8	o Valid	o Invalid			
(b)	mov someWord, anotherWord	o Valid	o Invalid			
(c)	mov ah, someSignedByte	o Valid	○ Invalid			
(d)	mov bx, someValue	o Valid	o Invalid			
(e)	mov ds, 1F3Bh	o Valid	o Invalid			
(f)	mov ds, ax	o Valid	o Invalid			
(g)	mov cs, ax	o Valid	o Invalid			
(h)	mov eip, someValue	o Valid	o Invalid			
(i)	mov someValue, esi	o Valid	o Invalid			
(j)	mov eax, someWord	o Valid	o Invalid			
(k)	movzx eax, ebx	o Valid	o Invalid			
(1)	movzx ebx, 5	o Valid	o Invalid			
(m)	movsx ax, al	o Valid	o Invalid			
(n)	movzx ebx, si	o Valid	o Invalid			
(o)	movsx ds, ah	o Valid	o Invalid			

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