Summary Exercise - Week 1

 Due Oct 2 at 3:59pm
 Points 35
 Questions 35
 Available until Oct 2 at 3:59pm

 Time Limit 360 Minutes
 Allowed Attempts 2

Instructions

There's a six-hour time limit.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	29 minutes	35 out of 35
LATEST	Attempt 2	29 minutes	35 out of 35
	Attempt 1	53 minutes	29 out of 35

Score for this attempt: **35** out of 35 Submitted Oct 2 at 3:07pm This attempt took 29 minutes.

	Question 1	1 / 1 pts
	Which of the following binary values is equivalent to hexadecimal 4A2B?	
	O 0110 1011 0010 1001	
Correct!	0 0100 1010 0010 1011	
	O 100 1010 1010 1011	
	0100 1010 0010 1101	

	Question 2	1 / 1 pts
	What is the value of the booloean expression $^{\times}$ $^{\vee}$ $^{(Y \land Z)}$, when X=true, Y=fals Z=false?	se, and
Correct!	True	
	○ False	

	Question 3	1 / 1 pts
	A word (on x86 systems) is 16 bits.	
Correct!	True	
	○ False	
	Question 4	1 / 1 pts
	Three hexadecimal digits can be used to represent 12 binary bits.	
Correct!	True	
	○ False	
	Question 5	1 / 1 pts
	The expression $X \wedge Y$ is true only when X and Y are both true.	
Correct!	True	
	○ False	
	Question 6	1 / 1 pts
	Which of the following binary values is equivalent to hexadecimal 7CBE?	
	O 0111 1100 1100 1110	
	O111 1011 1011 1100	

	0111 1101 1011 1110	
orrect!	0 0111 1100 1011 1110	
	Question 7	1 / 1 pts
	A quadword is 4 bytes.	
	○ True	
rrect!	False	
	Question 8	1 / 1 pts
	A signed integer stores the sign in the least significant bit (LSB).	
	○ True	
orrect!	False	
	Question 9	1 / 1 pts
	A doubleword (on x86 systems) is 32 bits.	
rrect!	True	
	○ False	
	Question 10	1 / 1 pts
	The ASCII codes for alphabetic letters are smaller than for decimal digits.	

	☐ True	
Correct!	False	
	Question 11	1 / 1 pts
	How many bits are used by Unicode characters in MS-Windows?	
Correct!	● 16	
	O 7	
	8	
	○ 24	
	Question 12	1 / 1 pts
	Question 12 The most significant bit in a binary byte is numbered bit 8.	1 / 1 pts
		1/1 pts
Correct!	The most significant bit in a binary byte is numbered bit 8.	1/1 pts
Correct!	The most significant bit in a binary byte is numbered bit 8.	1/1 pts
Correct!	The most significant bit in a binary byte is numbered bit 8.	1/1 pts
Correct!	The most significant bit in a binary byte is numbered bit 8. True False	
CorrectI	The most significant bit in a binary byte is numbered bit 8. True False Question 13	
Correct!	The most significant bit in a binary byte is numbered bit 8. True False Question 13 The expression X V Y is only true when X and Y are both true.	

	Question 14	1 / 1 pts
	Which of the following best describes the relationship between assembly language a machine language?	and
	many to one	
	one to many	
	many to many	
Correct!	one to one	
ا		
	Question 15	1 / 1 pts
	Which list contains the correct hexadecimal translation (in order) of the following uns decimal integers? 33, 95, 257	igned
	22, 5E, 11A	
	○ 6A, 5F, 101	
	21, 62, 103	
Correct!	② 21, 5F, 101	
	Question 16	1 / 1 pts
	How much memory can be addressed in Real-address mode?	
	○ 640K	
Correct!	● 1MB	
	○ 4GB	
	○ 16MB	

		Question 17	1 / 1 pts
		Which flag is set when an unsigned value is too large to fit into a destination ope	rand?
		overflow	
		sign	
		auxiliary carry	
	Correct!	carry	
		checkered	
		ored flag	
_			
		Question 18	1 / 1 pts
	-	If a clock oscillates 10 billion times per second, what is the duration of a single c	lock cycle?
			lock cycle?
	Correcti	If a clock oscillates 10 billion times per second, what is the duration of a single of a jiffy 1.0 X 10 ⁻¹⁰ seconds	lock cycle?
C	Correcti	1 jiffy	lock cycle?
C	Correct!	○ 1 jiffy ■ 1.0 X 10 ⁻¹⁰ seconds	lock cycle?
	Correct!	 1 jiffy ■ 1.0 X 10⁻¹⁰ seconds □ 1.0 x 10¹⁰ seconds 	lock cycle?
	Correct!	 1 jiffy ■ 1.0 X 10⁻¹⁰ seconds ■ 1.0 x 10¹⁰ seconds ■ 1 nanosecond 	lock cycle?
	Correct!	 1 jiffy 1.0 X 10⁻¹⁰ seconds 1.0 x 10¹⁰ seconds 1 nanosecond 1.0 x 10⁻⁹ seconds 	lock cycle?
	Correct!	 1 jiffy 1.0 X 10⁻¹⁰ seconds 1.0 x 10¹⁰ seconds 1 nanosecond 1.0 x 10⁻⁹ seconds 1 sagon seconds 	lock cycle?
	Correcti	 1 jiffy 1.0 x 10⁻¹⁰ seconds 1.0 x 10¹⁰ seconds 1 nanosecond 1.0 x 10⁻⁹ seconds 1 sagon seconds Question 19	
	Correcti	 1 jiffy 1.0 X 10⁻¹⁰ seconds 1.0 x 10¹⁰ seconds 1 nanosecond 1.0 x 10⁻⁹ seconds 1 sagon seconds 	

Correct!

• DL

DX

1 / 1 pts Question 20 Suppose that you are given the following program. What decimal value does the AX register hold when someProcedure is called?? .data x DWORD 153461 y BYTE 37 z BYTE 90 .code main PROC mov AH, y mov AL, z call someProcedure inc EAX mov EBX, z xor EAX, EBX exit main ENDP END MAIN 9037 3790 9562 23077

Question 21 1 / 1 pts

Which internal bus uses binary signals to synchronize actions of all devices attached to the system bus?

Correct!

	○ I/O bus	
	address bus	
	cache bus	
	data bus	
Correct!	• control bus	
	city bus	
	Question 22	1 / 1 pts
	During which phase of the instruction execution cycle is the pro	ogram counter incremented?
	operand fetch	
	decode	
Correct!	fetch	
	execute	
	Question 23	1 / 1 pts
	If you wanted to find out whether an integer contained an even flag would be useful?	number of 1 bits, which status
	Саггу	
	overflow	
Correct!	parity	
	sign	
	·	

	Question 24	pts
	High-speed memory that reduces the frequency of access by the CPU to conventional men is called	nory
Correct!	cache memory	
	O local memory	
	O virtual memory	
	system memory	
L		
	Question 25	pts
	The three types of buses connected to the CPU are:	
Correct!	data, address, control	
	address, control, memory	
	fetch-decode, control, execution	
	O data, system, address	
L		
	Question 26	pts
	The basic parts of an instruction, in order from left to right, are:	
	comment, label, mnemonic, operand(s)	
	mnemonic, operand(s), comment	
	label, mnemonic, comment	
Correct!	label, mnemonic, operand(s), comment	

	Question 27	1 / 1 pts
	Which utility program reads an assembly language source file and produces an ob-	ect file?
Correct!	assembler	
	editor	
	compiler	
	O loader	
	detangler	
	linker	
	Question 28	1 / 1 pts
	Quochon 20	
	Which letter choice shows the memory byte order, from low to high address, of the data definition? BigVal DWORD 12345678h	following
	data definition?	following
	data definition? BigVal DWORD 12345678h	following
Correctl	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h	following
Correcti	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h 34h,12h,78h,56h	following
Correcti	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h 34h,12h,78h,56h • 78h,56h,34h,12h	following
Correct!	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h 34h,12h,78h,56h • 78h,56h,34h,12h	
Correct!	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h 34h,12h,78h,56h • 78h,56h,34h,12h 56h, 78h,12h,34h	
Correct!	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h 34h,12h,78h,56h • 78h,56h,34h,12h 56h, 78h,12h,34h Question 29 The following is a valid data definition statement: str1 \	
Correct!	data definition? BigVal DWORD 12345678h 12h,34h,56h,78h 34h,12h,78h,56h • 78h,56h,34h,12h 56h, 78h,12h,34h Question 29 The following is a valid data definition statement:	following 1 / 1 pts

	○ False			REAL64	
				REAL	
	Question 30	1 / 1 pts			
	Operands may be any of the following: (select all that apply)			Question 33	1 / 1 pts
	✓ register name			The following sequence of statements is invalid :	
1	variable name (memory)			.code mov eax,edx	
				.data myByte BYTE 10	
	reserved word			.code mov al,myByte	
				○ True	
	Question 31	1 / 1 pts	Correct!	False	
	Given the following array definition, which letter choice contains a valid constant dec named ArrayCount that automatically calculates the number of elements in the array				
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50			Question 34 Which of the following are valid data definition statements that	1/1 pts
	named ArrayCount that automatically calculates the number of elements in the array			Question 34 Which of the following are valid data definition statements that objects containing decimal 10, 20, and 30, named myArray?	
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50 ArrayCount = (\$ - newArray) / 4			Which of the following are valid data definition statements that of	
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50 • ArrayCount = (\$ - newArray) / 4 ArrayCount = (newArray - \$) - 4			Which of the following are valid data definition statements that objects containing decimal 10, 20, and 30, named myArray? BYTE myArray[3]: 10, 20,30 BYTE myArray 10, 20, 30	
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50 ArrayCount = (\$ - newArray) / 4 ArrayCount = (newArray - \$) - 4 ArrayCount DWORD \$ - newArray		Correct!	Which of the following are valid data definition statements that objects containing decimal 10, 20, and 30, named myArray? BYTE myArray[3]: 10, 20, 30 BYTE myArray 10, 20, 30 myArray BYTE 10, 20, 30	
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50 ArrayCount = (\$ - newArray) / 4 ArrayCount = (newArray - \$) - 4 ArrayCount DWORD \$ - newArray		Gorrectl	Which of the following are valid data definition statements that objects containing decimal 10, 20, and 30, named myArray? BYTE myArray[3]: 10, 20,30 BYTE myArray 10, 20, 30	
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50 ArrayCount = (\$ - newArray) / 4 ArrayCount = (newArray - \$) - 4 ArrayCount DWORD \$ - newArray ArrayCount = newArray - \$	\?	Correct!	Which of the following are valid data definition statements that objects containing decimal 10, 20, and 30, named myArray? BYTE myArray[3]: 10, 20, 30 BYTE myArray 10, 20, 30 myArray BYTE 10, 20, 30 myArray BYTE DUP (3) 10,20,30	create an array of unsigned
	named ArrayCount that automatically calculates the number of elements in the array newArray DWORD 10,20,30,40,50 ArrayCount = (\$ - newArray) / 4 ArrayCount = (newArray - \$) - 4 ArrayCount DWORD \$ - newArray ArrayCount = newArray - \$	\?	Correct!	Which of the following are valid data definition statements that objects containing decimal 10, 20, and 30, named myArray? BYTE myArray[3]: 10, 20, 30 BYTE myArray 10, 20, 30 myArray BYTE 10, 20, 30	

Question 33 The following sequence of statements is invalid:	1 / 1
The following sequence of statements is invalid :	
.code	
mov eax,edx	
.data myByte BYTE 10	
.code	
mov al, myByte	
○ True	
False	
Which of the following are valid data definition statements that create an array bytes containing decimal 10, 20, and 30, named myArray?	y of unsigned
BYTE myArray[3]: 10, 20,30	
O BYTE myArray 10, 20, 30	
• myArray BYTE 10, 20, 30	
O myArray BYTE DUP (3) 10,20,30	

List1 BYTE 10,20 BYTE 30,40
True
○ False

Quiz Score: 35 out of 35