CS 218 - Worksheet #2	
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1. If the rax register is set to 81985529216486895 ₁₀ (123456789abcdef the following registers in hex?	f ₁₆), what are the contents (4 pts, 1 pt each)
1. al $= 0 \times \%$	
2. $\mathbf{ax} = 0 \times cdef$	
3. $eax = 0x89abcdef$ 4. $rax = 0x0123456789abcdef$	
2. Provide the range for each of the following:	(6 pts, 1 pts each)
1. signed byte 201255 -128 +0+127	
2. unsigned byte 0-255	
3. signed word - 32,768 to +32,767	
4. unsigned word 0 +0+65,535	
5. signed double-word -2, 147, 483,648 to +2,147	,483,647
6. unsigned double-word 0 - 4,294,967,295	
3. What is the hex, <i>byte</i> size, two's compliment representation of -7_{10} ? 0	(2 pts)
4. What is the hex, <i>word</i> size, two's compliment representation of -9_{10} ? Ox FFF 7	(2 pts)

5. What is the hex, *double-word* size, two's compliment representation of -9₁₀? (2 pts)

6. What is the decimal representation of FFFFFFFB₁₆ (hex, double-word size, two's compliment)? (2 pts)

7. What is the decimal representation of C1440000₁₆? Assume IEEE 32-bit floating point format.

(2 pts)

Repartive exponent:
$$1000 0010 = 130 - 121 = 3$$
 1.10001×2^3
 $1.100.01$

8. On the Intel 80x86 base architecture, how many bytes can be stored at each address? (1 pts)