## CS 161 Spring 2024

## Introduction to Computer Security

Discussion 1

Question 1	61C Review
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Being comfortable with manipulating the various number representations covered in 61C will help you succeed in the memory safety unit.

Q1.1	What is the hexadecimal value of the decimal number 18?	
Q1.2	What is the value of 0x8339e833 + 0x20 in hexadecimal form?	
<b>∩</b> 1 3	What is the value of 0x550ecdf2 + decimal 16 in hexadecimal form?	
Q1.5	What is the value of Ox330ccu12 + uccimal form:	
Q1.4	What is the largest unsigned 32-bit integer? What is the result of adding 1 to that number?	
Q1.5	What is the largest signed 32-bit integer? What is the result of adding 1 to that number?	
Q1.6	If you interpret an n-bit two's complement number as an unsigned number, would the negative numbers be smaller or larger than positive numbers?	
O1 7	How many bytes are needed to represent char[16]?	
×1.7	The many bytes are needed to represent charges.	

Q1.8	How many bytes are needed to represent int[8]?
Q1.9	For the following subparts, assume each block is 1 byte, and addresses increase from left-to-right and bottom-to-top.
	In a little-endian 32-bit system, how would you represent the pointer 0xDEADBEEF?
Q1.10	In a little-endian 64-bit system, how would you represent the pointer 0xDEADBEEF?
21.11	In a little-endian 32-bit system, how would you represent the char array "ABCDEFGH"?