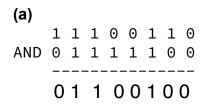
HW9: Bitwise operators and bitmasks (CS220-04)

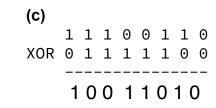
For problems 1 through 4, find the 8 bit result from applying (a) AND, (b) OR and (c) XOR of the two bit patterns shown.

1)

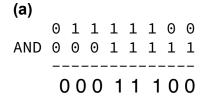
2)

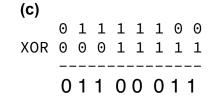
3)





4)





Name: Anna Kurchenko

5) What is the 8 bit pattern generated by the following expression in C/C++?

00001000 I 00100000 = 00101000

6) What is the 8 bit pattern generated by the following expression in C/C++?

7) What are the 8 bit patterns generated by the following expressions in C/C++? (a)

$$111111111 >> 4 = 00001111$$

8) Write a C/C++ expression to **GENERATE** a superb bitmask with 1s in bits 2 and 4 and in bits 8--14. This expression should work for any register/word size with at least 15 bits and **MUST NOT** be a primitive hex or similar bitmask.