**Take-Home Quiz 9 (15 pts) – Bits, Bytes, and C Bitwise Operators**

**NOTE: Please submit your hard copy solution in lab this week**

1. (2 pts) How many bits are in one byte? \_\_\_\_8\_\_\_\_\_\_
2. (2 pts) How many bytes are in 32-bits? \_\_\_\_4\_\_\_\_\_\_
3. (2 pts) What is the largest unsigned number that may be represented by eight bytes? \_\_\_(2^64) - 1\_\_\_\_\_\_
4. (3 pts) What is the result of the following C expression? List your answer in *decimal* form.

87 << 2 \_\_\_\_\_\_7569\_\_\_\_

1. (3 pts) What is the result of the following C expression? List your answer in 8-bit *binary* form.

47 >> 3 \_\_\_00001111\_\_\_\_

1. (3 pts) What is the result of the following C expression? List your answer in 4-bit *binary* form.

10 & (~9) \_\_0010\_\_\_\_