

CSCI 2330 – Binary Exercises

1. How many values can be represented using a 9-bit binary number?
2. Write decimal value 230 in (a) binary, and (b) hex.
3. Write binary value 0b10001111 in (a) decimal, and (b) hex.
4. Write hex value 0x55 in (a) decimal, and (b) binary.
5. Compute $0x69 \mid 0x55$, assuming a char data type (express your answer in hex).
6. Compute $0x69 \ll 0x55$, assuming a char data type (express your answer in hex).
7. Compute $5 \ll 1$, $5 \ll 2$, and $5 \ll 3$ (express your answers in decimal). What do you notice?