16.216: ECE Application ProgrammingSpring 2012

Lecture 9: Key Questions February 10, 2012

1. a.	Example: Given an unsigned int, n, and a number, b, how would you: Flip bit b of n?
b.	Set bit b of n (i.e., make sure bit b is 1)?
c.	Clear bit b of n (i.e., make sure bit b is 0)?
2. a.	Describe how, in general, you perform the operations below on a bit or range of bits: Setting $bit(s)$ (desired $bit(s) = 1$, all others unchanged)
b.	Clearing bit(s) (desired bit(s) = 0 , all others unchanged)
c.	Flipping bit(s) (desired bit(s) change from $0 \rightarrow 1$ or $1 \rightarrow 0$, all others unchanged)

3. Explain how to set the field width, alignment, and padding characters for values printed using printf().

4. Explain how to format hexadecimal values printed using ${\tt printf}$ ().