

16.216: ECE Application Programming

Spring 2013

Lecture 29: Key Questions

April 17, 2013

1. **Example:** Given an unsigned `int`, `n`, and a number, `b`, how would you:
 - a. Clear all bits of `n`?
 - b. Clear the lower 16 bits of `n` (mask out lower bits)?
 - c. Flip all bits of `n`?
 - d. Flip bit `b` of `n`?
 - e. Set bit `b` of `n` (i.e., make sure bit `b` is 1)?
 - f. Clear bit `b` of `n` (i.e., make sure bit `b` is 0)?

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3. Describe how to extract a group of bits from a larger value.

4. Describe how to print hexadecimal values.