16.216: ECE Application ProgrammingSpring 2012

Lecture 7: Key Questions February 6, 2012

1.	What are the basic binary arithmetic operators supported by C?
2.	Explain the modulus operator (%).
3.	What determines the type of a binary operation's result?
4.	What is the difference between division of integers and floating-point types?

5. Explain the operation of the unary negation operator (e.g., -x).

- 6. **Example:** Evaluate each of the following expressions, including the type (int or double) in your answer.
- a. 19/3
- b. 3/19
- c. 19%3
- d. 3%19
- e. 5 + 7/2
- f. 5.0 + 7/2
- g. 5 + 7.0/2
- h. 5 * 3 % 3 / 6 + 14 + 10 / 2
- i. 5 * (3 % 3) / 6 + 14.0 + 10/3

7. Describe the C bitwise operators.

8. Explain C bit shift operators and their uses.

9. What is the order of operations for C operators?