

16.216: ECE Application Programming

Spring 2015

Lecture 4: Key Questions

January 28, 2015

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 use of `printf()` to print numeric values and characters.