

# Homework, ISTA-421

## Chapter 22, C# Step by Step

### Readings

Read chapter 22, pages 493 – 514 in the *C# Step by Step* book.

### Discussion Questions

1. Explain the difference between the concepts of *associativity* and *precedence*.
2. Explain the difference between the concepts of *binary* and *unary* operators.
3. List four constraints imposed by C# with respect to operator overloading.
4. What is the syntax for overloading operators? Discuss access, scope, return value types, and parameter types and multiplicity.
5. What are *symmetric* overloaded binary operators and how do they differ from non-symmetric overloaded binary operators?
6. Can you overload compound assignment operators? If so, please state how you do so. If not, explain why not.
7. What is the difference between overloading increment and decrement operators for value types and reference types?
8. Why do we overload some operators in pairs?
9. What is the difference between *widening conversion* and *narrowing conversion*?
10. What is the difference between *explicit conversion* and *implicit conversion*?