

CS 1400 Fall 2017 - Exam 3 Study Guide

- Everything from the previous two exams (yes, really everything – exam is comprehensive)
- Overloading Functions
 - Same name
 - Different number of parameters or different data types
- Abstract Data Types (ADTs)
 - What are they? Why do we use them?
- Classes
 - Syntax
 - Access Specifiers (public/private)
 - Default access levels
 - Reasoning/benefits
 - Member functions
 - Member variables
 - Constructors and destructors
 - Declaration/implementation file separation (.hpp vs .cpp)
 - Scope Resolution operator
 - Objects vs Classes
 - Difference between structs and classes in C++
- Arrays
 - Declaring arrays
 - Size must be constant
 - Subscript operator
 - Accessing elements in an array
 - Accessing characters within a string
 - Array initialization
 - For loop
 - Inline
 - Looping across contents of an array
 - Passing arrays to functions
 - Syntax in function definitions and function calls
 - Two-dimensional arrays
 - Syntax
 - Initialization (for loops or nested inline)
- Range-based for loops
 - Syntax