Computer Programming

Srinivasa Rao Satti

Course Information

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Course Information

Textbooks:

- Thinking in Java (4th Edition, Pearson International Edition), Bruce Eckel, Pearson Education (Prentice Hall), 2006.
- Building Java Programs: A Back to Basics Approach, 4th edition, Stuart Reges and Marty Stepp, Pearson, 2016.

- C++ How to Program (10th Edition, Pearson Global Edition), P. Deitel and H. M. Deitel, 2017.
- The C++ Programming Language (4th Edition, Eddison-Wesley), Bjarne Stroustrup, Pearson Education, 2013.

(Any standard C++ and Java textbook that you are comfortable with)

Evaluation

- Assignments: 35%

- Quiz, Participation: 20%

- Midterm: 20%

- Final Exam: 25%

Lecture Goals

- Java & C++ Programming

- Understanding the Object-Oriented programming principles

- Acquiring good programming styles

- Learning Java & C++ Object-Oriented programming methodologies

- Solving complex problems through coding in Java & C++

Lecture Plan

- Basic Java Programs

- Primitive Data and Definite Loops

- Parameters and Objects

- Conditional Execution

- Program Logic and Indefinite Loops

- File Processing

- Arrays

- Classes

- Inheritance and Interfaces

Lecture Plan Cont'd

- C++ Basics, Data Types & Pointers

- C++ Name Spaces & Operator Overloading

- C++ Class Derivation and Inheritance

- C++ Templates & Standard Library

- C++ Runtime Type Identification

- C++ Exception Handling

Cooperate on Learning

- Except for the work you hand in as your individual contributions, we encourage you to collaborate and help each other.

- If in doubt if a collaboration is legitimate: ask!
    - Don't claim to have written code that you copied from others
    - Don't give anyone else your code (to hand in for a grade)
    - When you rely on the work of others, explicitly list all of your sources – i.e., give credit to those who did the work.

- Don't study alone when you don't have to
    - Form study groups
    - Do help each other (without plagiarizing)

Questions?