



Computer Programming Course Overview

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Outline

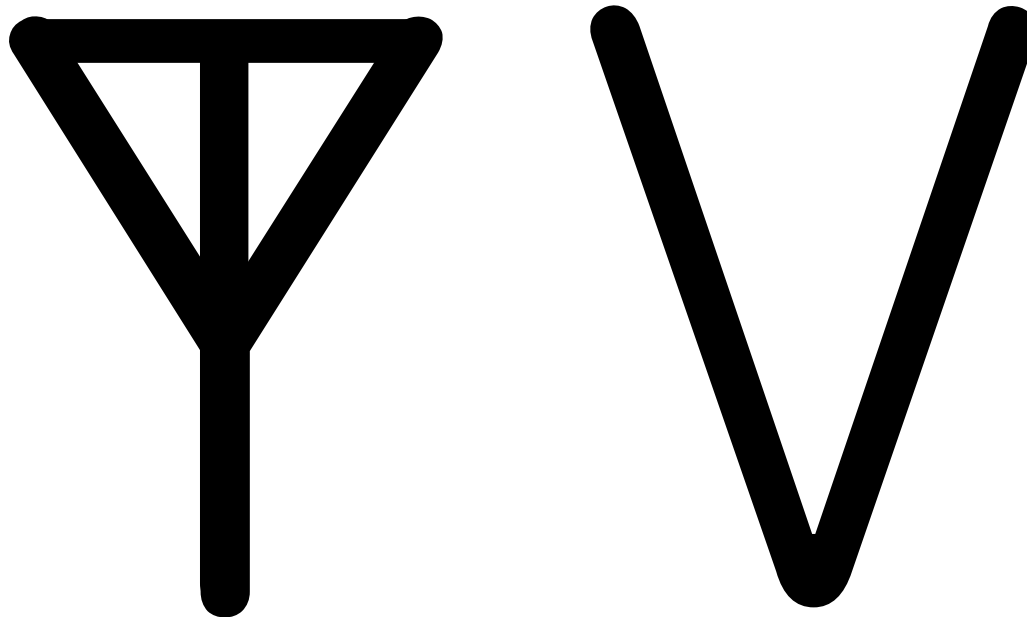
- Greeting
- Prologue
- Lecture Goal
- Overview
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Prologue



- Excellent Choice
 - Computer Science & Engineering
 - High Demand
 - Interesting
 - Sense of Mission

Prōlogue Cōnt'd



Lecture Goals

- C++ & Java Programming
- Understanding the Object-Oriented programming principles
- Acquiring good programming styles
- Learning C++ & Java Object-Oriented programming methodologies
- Considering the basic interaction in execution between the programs and the underlying computer systems
- Solving complicated problems by making C++ & Java programs



Lecture Plan

- Overview
- Object-Oriented Programming Principles
- Good Programming Style
- 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



Lecture Plan Cont'd

- Java Classes, Objects & Packages
- Java Methods, Operators & I/O
- Java Access Control
- Java Inheritance & Polymorphism
- Java Interfaces & Exception Handling
- Java String, Array & Containers
- Java Toolkits
- C++ vs Java
- Design Patterns



Course Web Page URL

<http://dcslab.snu.ac.kr/courses/cp2015s/>