Computer Programming Course Overview

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Outline

✓ Greeting
✓ Prologue
✓ Lecture Goal
✓ Overview
✓ Q&A
Prologue

✓ Excellent Choice
  □ Computer Science & Engineering
    ✓ High Demand
    ✓ Interesting
    ✓ Sense of Mission
Prologue Cont’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/cp2020s/