Outline

- Possible Topics
Possible Topics about C++

- Namespaces
- Imperative Language (vs. Declarative Lang.)
- Object-Oriented Programming Design Principles
  - Programming in polymorphism
- Separating Interface from Implementation
- Storage Classes and Scope Rules
- Function Overloading and Templates
- C++ Pointers
- friend Functions and Classes
- Inheritance
- Exception Handling
Possible Topics about Java

• Differences between Java and C/C++
• Java Program Execution
• Member Access Control
• Static Modifier
• Locating Classes
• Classes, Objects, and Packages
• Methods & Operators
  – Method Overloading
  – Initialization Order
• Java I/O Systems
Possible Topics about Java (Cont’d)

- Composition vs Inheritance
- Inheritance
  - Initialization
- Final
- Polymorphism
  - Upcasting
  - Downcasting
- Interface
- Exception Handling
- String, Formatter, and Scanner
- Container and Java Tools