

POSSIBLE TOPICS  
for FINAL  
20<sup>th</sup> LECTURE

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# Outline

- **Possible Topics**

# Possible Topics about C++

- Namespaces
- Imperative Language (vs. Declarative Lang.)
- Object-Oriented Programming Design Principles
- 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