



# Computer Programming Possible Topics for Midterm 12<sup>th</sup> Lecture

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# Outline

- Possible Topics for Midterm
- Q&A




# Possible Topics for Midterm

- Namespaces
- Imperative Language (vs. Declarative Lang.)
- Object-Oriented Programming
  - Design Principles
- Separating Interface from Implementation
- C vs C++
  - Static
- Function Definitions



# Possible Topics for Midterm Cont'd

- Function Prototypes vs Signatures
- C++ Data Types
- Storage Classes and Scope Rules
- C++ Function Call Stack and Activation Records
- Inline Functions
- References
- Default Arguments
- Function Overloading and Templates
- Recursion



# Possible Topics for Midterm Cont'd

- C++ Pointers
- Constructors and Destructors
  - Copy Constructors
- const Members
- Member Initializer
- friend Functions and Classes
- Static Members
- Inheritance
- Polymorphism
  - Virtual