COMPUTER PROGRAMMING
POSSIBLE TOPICS FOR MIDTERM
12TH WEEK 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