Review for Test #1

- □ Midterm #1
- □ Date: 3/13/25
- Note #1 ~ #8
- □ Problems
 - Write a simple function
 - Outputs by a program segment
 - Brief description of concepts

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Review for Test #1

- □ C++ Primitives: Note #1 ~ #4
- Basic Sorting Algorithms
 - Insertion Sort
 - Selection Sort
 - Bubble Sort

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Review for Test #1

- Pointer variables
- Relation between a Pointer and a Name of Array
- Pointer and Array
 - Pointer and Integer Array
 - Pointer and Character Array
- Array of Pointer to Character String
- □ Function for c-string: compare, length, copy,...

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Review for Test #1

- □ Structured Data Types
 - How to define a structured Data Type
 - Memory Allocation of Structured Data Type
 - □ Static Memory allocation
 - Dynamic Memory Allocation
 - Accessing a Members in a Structured Data Type
 - A structured Data type as a member of other Structured Data Type
 - Passing a Structured Data Type as a Parameter
 - Initializing members in a Structured Data Type
 - Array of an Structured Data Type

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Review for Test #1

- Linked List
 - Insert
 - Sorted ListUnsorted List
 - Delete
 - Search

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Review for Test #1

- □ Object Oriented Program with C++
- □ Class Declarations in C++
- □ Class Member Types
 - Private, Public, Protected
- □ Inline Function vs. Regular Function
- □ Constructor & Destructor
- Assessing a Class Member
- Initializing class Objects with constructor
 - With default argument
 - Without Default argument

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Review for Test #1

- Separating Interface from Implementation
- Scope of Member
- Utility Functions
- When Constructor and Destructor is called?
- Insecure Public Function

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Review for Test #1

- ■Algorithm & Analyzing Algorithm
- ■Asymptotic Notation

 - ■Big O Notation
 - ■Big Ω Notation

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