CPP Problem Design Example

Subject: Find the largest and smallest

Contributor: 王聖文, 張子樂, 林岳儒

Main testing concept: 數字大小比較

Basics	Functions
■ C++ BASICS	☐ SEPARATE COMPILATION AND NAMESPACES
☐ FLOW OF CONTROL	☐ STREAMS AND FILE I/O
☐ FUNCTION BASICS	☐ RECURSION
☐ PARAMETERS AND OVERLOADING	☐ INHERITANCE
☐ ARRAYS	☐ POLYMORPHISM AND VIRTUAL FUNCTIONS
☐ STRUCTURES AND CLASSES	☐ TEMPLATES
☐ CONSTRUCTORS AND OTHER TOOLS	☐ LINKED DATA STRUCTURES
☐ OPERATOR OVERLOADING, FRIENDS,AND REFERENCES	☐ EXCEPTION HANDLING
☐ STRINGS	☐ STANDARD TEMPLATE LIBRARY
☐ POINTERS AND DYNAMIC ARRAYS	☐ PATTERNS AND UML

Description:
Find the largest and smallest of four integers entered by the user.

Input:
Enter four integers separated by blanks.
The input is unlimited input until EOF is read.

Output:
Output the largest and smallest, and follow the sample format.

Sample Input / Output：

Sample Input	Sample Output
21 43 10 35	Largest: 43 Smallest: 10
-451 0 45641 2147483646	Largest: 2147483646 Smallest: -451
-214783646 -214783646 9456123 95124446	Largest: 95124446 Smallest: -214783646

■ Eazy,Only basic programming syntax and structure are required.

☐ Medium,Multiple programming grammars and structures are required.

☐ Hard,Need to use multiple program structures or complex data types.

Expected solving time:
10 minutes

Other notes: