

C 程式設計題

命題者：YCF

題目名稱(中文/英文)：Find the largest and smallest

主要測試觀念： Selection Statements

| Basics | Decision and Loops | Functions |
|--|--|---|
| <input type="checkbox"/> Keywords and Identifier <input type="checkbox"/> Variables and Constants <input type="checkbox"/> Programming Data Types <input type="checkbox"/> Expressions <input type="checkbox"/> Basic Input/Output <input type="checkbox"/> Programming Operators | <input checked="" type="checkbox"/> Programming if...else <input type="checkbox"/> Programming for Loops <input type="checkbox"/> do...while Loops <input type="checkbox"/> break and continue <input type="checkbox"/> switch...case Statement <input type="checkbox"/> Programming goto | <input type="checkbox"/> User-defined Functions <input type="checkbox"/> Function Types <input type="checkbox"/> Programming recursion <input type="checkbox"/> Storage Class (variable life) |
| Arrays and Strings | Pointers | Structure and Union |
| <input type="checkbox"/> Arrays <input type="checkbox"/> Multi-dimensional Arrays <input type="checkbox"/> Arrays and Functions <input type="checkbox"/> Strings and Functions | <input type="checkbox"/> Pointers And Arrays <input type="checkbox"/> Pointers And Functions <input type="checkbox"/> Dynamic Memory Allocations | <input type="checkbox"/> Structures and Pointers <input type="checkbox"/> Structure and Function <input type="checkbox"/> Programming Unions |
| Files I/O | Miscellaneous | Other |
| <input type="checkbox"/> Files Input/Output basics <input type="checkbox"/> Character I/O and String I/O <input type="checkbox"/> Block I/O <input type="checkbox"/> Advanced File I/O manipulations | <input type="checkbox"/> Enumeration <input type="checkbox"/> Preprocessor <input type="checkbox"/> Low level programming <input type="checkbox"/> Error handling <input type="checkbox"/> Standard/advanced library | <input type="checkbox"/> Programming logic training <input type="checkbox"/> Programming structure/design training <input type="checkbox"/> Localization issues <input type="checkbox"/> _____ |

題目說明：

Find the largest and smallest of four integers entered by the user。

輸入說明：格式如 IO 範例。

輸出說明：格式如 IO 範例；注意空格。

IO 範例：

| | Sample Input | Sample Output |
|----------|-------------------------|---------------------------------------|
| 第一組測資與輸出 | 21 43 10 35 | Largest: 43 Smallest: 10 |
| 第二組測資與輸出 | -451 0 45641 2147483646 | Largest: 2147483646 Smallest: -451 |
| ... | | |

附屬資料：

- ☒ 解答程式：find the largest and smallest.c(檔名)
- ☒ 測試資料：input.txt, output.txt

- ☒ 易，僅需用到基礎程式設計語法與結構（如單迴圈等）
- ☐ 中，需用到多項程式設計語法與結構（如雙層迴圈等）
- ☐ 難，需用到多項程式結構或較為複雜之資料型態或結構（如遞迴、串連等）

解題時間：5 分鐘。

其他註記：