## C程式設計題

命題者:SCY					
題目名稱(中文/英文): Selection sort					
主要測試觀念: Selection sort					
Basics		ecision and Loo	ps Functi	Functions	
<ul> <li>□ Keywords and Identifier</li> <li>□ Variables and Constants</li> <li>□ Programming Data Types</li> <li>□ Expressions</li> <li>□ Basic Input/Output</li> <li>□ Programming Operators</li> </ul>		rogramming ifelse rogramming for Loops owhile Loops reak and continue witchcase Statement rogramming goto	☐ Function Types ■Programming recu	■ User-defined Functions  □ Function Types ■Programming recursion □ Storage Class (variable life)	
Arrays and Strings		Pointers	Structure a	Structure and Union	
☐ Arrays ☐ Multi-dimensional Arrays ☐ Arrays and Functions ☐ Strings and Functions		ointers And Arrays winters And Functions rnamic Memory Allocation	☐ Structure and Fu	☐ Structures and Pointers ☐ Structure and Function ☐ Programming Unions	
Files I/0		Miscellaneous	Othe	0ther	
☐ Files Input/Output basics ☐ Character I/O and String I/O ☐ Block I/O ☐ Advanced File I/O manipulations		numeration reprocessor ow level programming ror handling candard/advanced library	☐ Programming strutaining ☐ Localization is:	☐ Programming logic training ☐ Programming structure/design training ☐ Localization issues	
題目說明: Given a series of integers, please write a selection sort					
function to sort the input integers and output in an non-					
increasing order.					
輸入說明:先輸入將被排序的整數個數 K,然後,再輸入 K 個整數。					
輸出說明:將輸入的 K 個整數做 Selection sort, 然後以降冪方式依序輸出					
K個整數。					
10 範例:					
		Sample Input	Sample Output		
第一	組測資與輸出	10 2 3 5 6 8 9 7 4 1 0	9876543210		
第二	組	-5 -3 0 2 1 7	7 2 1 0 -3 -5		
第三	組	9 0 0 -1 5 6 -7 -8 -0 10	10 6 5 0 0 0 -1 -7 -8		

附屬資料:
☑解答程式:Selection sort.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:15 分鐘。
其他註記: