CPP 程式設計題

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命題者:FGX 		
題目名稱(中文/英文):Levenshtein Distance		
主要測試觀念: Dynamic Programm	-	
Basics	Functions	
☐ C++ BASICS ☐ FLOW OF CONTROL ☐ FUNCTION BASICS ☐ PARAMETERS AND OVERLOADING ☐ ARRAYS ☐ STRUCTURES AND CLASSES ☐ CONSTRUCTORS AND OTHER TOOLS ☐ OPERATOR OVERLOADING, FRIENDS, AND REFERENCES ☐ STRINGS ☐ POINTERS AND DYNAMIC ARRAYS	SEPARATE COMPILATION AND NAMESPACES STREAMS AND FILE I/O RECURSION INHERITANCE POLYMORPHISM AND VIRTUAL FUNCTIONS TEMPLATES LINKED DATA STRUCTURES EXCEPTION HANDLING STANDARD TEMPLATE LIBRARY PATTERNS AND UML	
題目說明:		
The Levenshtein distance measures the difference between two strings, which is the minimum		
number of single-character edits (insertions, deletions, substitutions) required to change one		
string into the other. For example, the Levenshtein distance between "resample" and "ensemble"		
is 4. One of the possible solutions is shown as following:		
Initial: "resample"		
Step 1: "esample" (deletion)		
Step 2: "ensample" (insertion)		
Step 3: "ensemple" (substitution)		
Step 4: "ensemble" (substitution)		
Note that uppercase and lowercase letters are treated as different characters.		
輸入說明:		
Two strings (words or sentences with at most 100 characters) as a pair separated by a new line.		
The program should accept successive pairs until an EOF is read.		
輸出説明:		
The Levenshtein distance for each pair of input strings.		
10 範例:		
Sample Input	Sample Output	
destiny	3	
density		
wolf man	7	
werewolf		

13

let it go...

Let justice be done.

附屬資料:	
☑解答程式:Source.cpp	
☑測試資料: input1. txt,input2. txt,input3. txt,output1. txt,	
output2. txt, output3. txt	
□易,僅需用到基礎程式設計語法與結構	
■中,需用到多項程式設計語法與結構	
□難,需用到多項程式結構或較為複雜之資料型態或結構	
解題時間:60 分鐘	
其他註記:	