CPP 程式設計題

命題者:SCY	
題目名稱(中文/英文):Reversal	
主要測試觀念: File I/O Basics	Functions
C++ BASICS 1 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 text file words. txt, which is included, contains an	
alphabetically sorted list of English words. Note that the words	
are in mixed upper and lowercase.	
Write a program that reads this file and finds the longest word	
that reverses to a different word. For example, "stun" reverses to	
make the word "nuts" but is only four letters long. Find the longest such word.	
Depending upon the speed of your computer and your implementation,	
execution of this program may take from minutes to hours.	
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輸入說明:words.txt	
輸出說明:The longest reverses word.	
IO 範例:	
Sample Input	Sample Output
第一組測資與輸 words.txt	desserts
改變 word.txt 的內容以測試的正確性。	
附屬資料:	
☑解答程式:Reversal.cpp(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	
■ 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: 20 分鐘。	
其他註記:	
Read the list of words into an array or vector and then search the	
array or vector for the reversed word.	