C 程式設計題

命題者：ZZY

題目名稱(中文/英文)：Compute Word Value

主要測試觀念： 簡易字串處理

Basics	Decision and Loops	Functions
☐ Keywords and Identifier	☐ Programming if...else	☐ User-defined Functions
☐ Variables and Constants	☐ Programming for Loops	☐ Function Types
☐ Programming Data Types	☐ do...while Loops	☐ Programming recursion
■ Expressions	☐ break and continue	☐ Storage Class (variable life)
☐ Basic Input/Output	■ switch...case Statement	
☐ Programming Operators	☐ Programming goto	

Arrays and Strings	Pointers	Structure and Union
☐ Arrays	☐ Pointers And Arrays	☐ Structures and Pointers
☐ Multi-dimensional Arrays	☐ Pointers And Functions	☐ Structure and Function
☐ Arrays and Functions	☐ Dynamic Memory Allocations	☐ Programming Unions
■ Strings and Functions		

Files I/O	Miscellaneous	Other
☐ Files Input/Output basics	☐ Enumeration	☐ Programming logic training
☐ Character I/O and String I/O	☐ Preprocessor	☐ Programming structure/design training
☐ Block I/O	☐ Low level programming	
☐ Advanced File I/O manipulations	☐ Error handling	☐ Localization issues
	☐ Standard/advanced library	☐ _____

題目說明：In the SCRABBLE Crossword Game, players form words using small tiles, each containing a letter and a face value. The face value varies from one letter to another, based on the letter’s rarity.(Here are the face values: 1:AEILNORSTU, 2:DG, 3:BCMP, 4:FHVWY, 5:K, 8:JX, 10:QZ.)Write a program that computes the value of a word by summing the values of its letters.

Your program should allow any mixture of lower-case and upper-case letters in the word.

Hint: Use the toupper library function.

輸入說明：例如，輸入 patfall

輸出說明：則輸出: Scrabble Value: 12

IO 範例 ：

	Sample Input	Sample Output
第一組測資與輸出	PenPineappleApplePen	Scrabble Value: 34
第二組	ComputerScience	Scrabble Value: 25
第三組	NTUST	Scrabble Value: 5
…		

附屬資料：

☑解答程式： ComputeWordValue.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：10 分鐘。

其他註記：