

C 程式設計題

命題者：ZZY

題目名稱(中文/英文)：Calculate the average word length for a sentence

主要測試觀念：字串處理

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 type="checkbox"/> Programming if...else <input type="checkbox"/> Programming for Loops <input checked="" 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 checked="" 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 checked="" type="checkbox"/> Programming logic training <input type="checkbox"/> Programming structure/design training <input type="checkbox"/> Localization issues <input type="checkbox"/> _____

題目說明：Write a program that calculates the average word length for a sentence. Note that

- 1) For simplicity, your program should consider a punctuation mark to be part of the word to which it is attached.
- 2) Display the average word length to one decimal place.

輸入說明：例如，輸入 It was deja vu all over again.

輸出說明：則輸出， Average word length: 3.4

I/O 範例：

	Sample Input	Sample Output
第一組測資與輸出	I'm very happy.	Average word length: 4.3
第二組	you're late again.	Average word length: 5.3
第三組	Don't copy paste!	Average word length: 5.0
...		

附屬資料：

☒ 解答程式：CalculateAverageLength.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）

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|---|
| <input type="checkbox"/> 中，需用到多項程式設計語法與結構（如雙層迴圈等）
<input type="checkbox"/> 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： 20 分鐘。 |
| 其他註記： |