

C 程式設計題

命題者：YCF

題目名稱(中文/英文)：compute the tax

主要測試觀念： Selection Statements

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

題目說明：

In one state, single residents are subject to the following income tax:

Income	Amount of tax
Not over \$750	1% of income
\$750—\$2,250	\$7.50 plus 2% of amount over \$750
\$2,250—\$3,750	\$37.50 plus 3% of amount over \$2,250
\$3,750-\$5,250	\$82.50 plus 4% of amount over \$3,750
\$5,250—\$7,000	\$142.50 plus 5% of amount over \$5,250
Over \$7,000	\$230.00 plus 6% of amount over \$7,000

輸入說明：大於零的 float 數值。

輸出說明：取小數至第二位(小數第三位，四捨五入第二位)。

IO 範例：

	Sample Input	Sample Output
第一組測資與輸出	750	7.50
第二組	2250	37.50
...		

附屬資料：

☒ 解答程式：compute the tax.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：5 分鐘。 |
| 其他註記： |