C 程式設計題

命題者：YCF

題目名稱(中文/英文)：Convert a numerical grade into a letter grade

主要測試觀念： Selection Statements

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：Write a program that converts a numerical grade into a letter grade。
Using the following grading scale: A = 90-100,B= 80-89,C = 70-79,D = 60-69,F = 0-59
Print an error! message if the grade is larger than 100 or less than 0。

輸入說明：numerical grade 的範圍：00- 100。

輸出說明：如 IO 範例。

IO 範例 :

	Sample Input	Sample Output
第一組測資與輸出	84	Letter grade: B
第二組側資與輸出	101	Error!
...		

附屬資料：

☑ 解答程式：Convert a numerical grade.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：Break the grade into two digits,then use a switch statement to test the ten's digit.