C程式設計題

命題者:WWK						
題目名稱(中文/英文): Phone "words " problem						
主要測試觀念: Recurrence						
Basics	Decision and Loops	Functions				
 □ Keywords and Identifier □ Variables and Constants □ Programming Data Types □ Expressions □ Basic Input/Output □ Programming Operators 	■Programming ifelse ■Programming for Loops □ dowhile Loops □ break and continue □ switchcase Statement □ Programming goto	 ☐ User-defined Functions ☐ Function Types ☐ Programming recursion ■Storage Class (variable life) 				
Arrays and Strings	Pointers	Structure and Union				
☐ Arrays ☐ Multi-dimensional Arrays ☐ Arrays and Functions ☐ Strings and Functions	☐ Pointers And Arrays ☐ Pointers And Functions ☐ Dynamic Memory Allocations	☐ Structures and Pointers ☐ Structure and Function ☐ Programming Unions				
Files I/0	Miscellaneous	0ther				
☐ Files Input/Output basics ☐ Character I/O and String I/O ☐ Block I/O ☐ Advanced File I/O manipulations	☐ Enumeration ☐ Preprocessor ☐ Low level programming ☐ Error handling ☐ Standard/advanced library	☐ Programming logic training ☐ Programming structure/design training ☐ Localization issues ☐				
題目說明:Each number	on the telephone dial	(except 0 and 1)				
corresponds	to three alphabetic cha	aracters. Those				
corresponden	ces are:					
2 ABC						
3 DEF						
4 GHI						
5 JKL						
6 MNO						
7 PRS						
8 TUV						
9 WXY						
that number some substitution but just some and 1 have no which contain 輸入說明:輸入一串數字已輸入完7個	o alphabetic equivalent ns those digits should (輸入最多 100 個字元,有	be real English words, rs). Since the digits 0 t, an input number be rejected. fo 数字最多7個數字,當之),當有'0'或'1'時請輸				
輸出說明:輸出所有可能 "None."。	,輸出順序請參照字典順	序,若無有效數字請輸出				

IO 範例:

	Sample Input	Sample Output
第一組測資與輸出	0123456789	Can't print a word!
		AD
		AE
		AF
		BD
第二組	23	BE
		BF
		CD
		CE
		CF
		DGP
		DGR
第三組		DGS
	34 7?	DHP
		DHR
		DHS
		DIP
		DIR
		DIS
		EGP
		EGR
		EGS
		EHP
		EHR
		EHS
		EIP
		EIR
		EIS
		FGP
		FGR
		FGS
		FHP
		FHR
		FHS
		FIP
		FIR
		FIS
第四組	? .!10	Can't print a word!
第五組	? .!	None.

附屬資料:

☑解答程式: PhoneWordsProblem.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	:	30	分鐘	0
其他註記	:			