程式設計[二] Project1

系級:資訊 106 乙

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執行環境: window 8 64-bit

作業要求:

One header file Sudoku.h, and one source code file Sudoku.cpp. In the class Sudoku, at least three member functions GiveQuestion(), ReadIn() and Solve()should be defined. GiveQuestion() is for hw2\_give\_question, and the others are for hw2\_solve.

hw2\_give\_question outputs the result to stdout.

hw2\_solve reads the inputs from stdin, solve it, and outputs to stdout.

程式解說:

程式會先隨機出一道題目，然後要求輸入一個數獨，接著會檢查0的個數(代表要填的個數)。程式會從1開始試，檢查完行、列，3\*3的方格後，若可以符合數獨規則就填入該數字，且填完144格時計數器anscount便會加一，最後輸出答案(無解輸出0，多解輸出2，唯一解輸出1後輸出答案)。

UML:

|  |
| --- |
| ZipCode |
| anscount：int  temp[12][12]:int  answer[12][12]:int  num[12][12]:int |
| + ReadIn()：int  + rcheck(int row,int r)：int  +ccheck(int column,int c):int  +scheck(int square,int x,int y):int  +Solve():void  +answers():void  +Solve2():void  +GiveQuestion():void |

執行畫面: