2020/12/02 C++程式設計

題目

輸入:兩個數字a、b

輸出:a+b的值做反轉後印出

要求: 如果相加的數字為負數即退出程式

輸出入範例

輸入 -> 49 、85

輸出: 49+85=134 , 反轉後為431, 即輸出為431

實作---使用 C++/CLI

solve1 --- 以遞迴實現

```
#include "pch.h"
#include <iostream>
using namespace System;
using namespace System::Collections::Generic;
int r;
int k(int x)
{
        if (x < 10)
                r = (r * 10) + (x % 10);
                return r;
        }
        else
        {
                r = (r * 10) + (x % 10);
                k(x / 10);
                return r;
        r = 0;
}
int main(array<System::String^>^ args)
{
        int c = 0;
        while (true)
        {
                int a = Convert::ToInt32(Console::ReadLine());
                int b = Convert::ToInt32(Console::ReadLine());
                c = a + b;
                if (c <= 0)
                         break;
                r = 0;
                Console::WriteLine(k(c));
                Console::WriteLine();
        std::system("pause");
        return 0;
}
```

solve2 --- 把相加後的數字轉成char陣列,再使用Array::Reverse()函式將要輸出陣列反轉,再用 foreach輸出

```
#include "pch.h"
#include <iostream>
using namespace System;
using namespace System::Collections::Generic;
int main(array<System::String ^> ^args)
{
        int c = 0;
        while (true)
                int a = Convert::ToInt32(Console::ReadLine());
                int b = Convert::ToInt32(Console::ReadLine());
                c = a + b;
                if (c <= 0)
                        break;
                else
                {
                        String^ out = c.ToString();
                        array<Char>^ out_chr = out->ToCharArray();
                        Array::Reverse(out_chr);
                        for each (Char^ k in out_chr)
                                 Console::Write(k);
                        Console::WriteLine("\n");
                }
        std::system("pause");
    return 0;
}
```