Name : Chao Cheng Lin

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Directory structure: 4digits

1. **Cutting array and detect the input number, and error detection.**

// test.cpp: 主要專案檔。

#include "stdafx.h"

#include "iostream"

using namespace System;

int main(array<System::String ^> ^args)

{

String ^ans = "1234";

String ^num;

int a,b,input;

do

{

Start:

a=0,b=0;

Console::WriteLine("請輸入4個號碼：");

num = Console::ReadLine();

try

{

input = Convert::ToInt32(num);

}

catch(Exception ^error)

{

Console::WriteLine("請勿輸入非數字！");

goto Start;

}

if(num->Length==4)

{

if(num[0]==num[1]||num[0]==num[2]||num[0]==num[3]||num[1]==num[2]||num[1]==num[3]||num[2]==num[3])

{

Console::WriteLine("數字不可重複！");

}

else

{

for(int i=0;i<4;i++)

{

for(int j=0;j<4;j++)

{

if(num[i]==ans[j] && i==j)

a++;

else if (num[i]==ans[j])

b++;

}

}

Console::WriteLine("{0}A{1}B",a,b);

}

}

else

{

Console::WriteLine("數字格式不符合！");

}

}while(a<4 || b>0);

Console::WriteLine("恭喜猜對！");

system("pause");

return 0;

}