﻿// Nguyen Xuan Thuan

//24/09/1999

#include <iostream>

#include <cctype>

using namespace std;

int SoNgayToiDa ( int ng, int n)

{

int sn;

switch ( ng)

{

case 1 : case 3 : case 5: case 7: case 8 : case 12 : case 10:

sn =31;

break;

case 4: case 6 : case 9 : case 11:

sn = 30;

break;

default:

if ( n % 400 == 0 || ( n % 4 ==0 && n % 100!=0))

sn =29;

else

sn = 28;

}

return sn;

}

bool KiemTraNgayThangNam ( int d, int m , int y)

{

if ( m > 0 && m < 13 && (y > 0) && (d > 0 && d <= SoNgayToiDa(m, y)))

return true;

return false;

}

int main ()

{

char ngay[3];

char thang[3];

char nam[5];

cout <<" Nhap vao chuoi ngay-thang-nam: ";

cin.get(ngay, 3);

cin.ignore();

cin.get(thang, 3);

cin.ignore();

cin.get(nam,5);

int ng, th, n;

// chuyen chuoi qua so

ng = atoi(ngay);

th = atoi(thang);

n = atoi(nam);

cout <<" Ngay thang nam nhap la: " << ng <<"/" << th <<"/" << n << endl;

if (KiemTraNgayThangNam(ng, th, n))

{

int songay = ng;

for ( int i = 1; i < th; i++)

{

switch (i)

{

case 1 : case 3 : case 5: case 7: case 8 : case 12 : case 10:

songay +=31;

break;

case 4: case 6 : case 9 : case 11:

songay += 30;

break;

default:

if ( n % 400 == 0 || ( n % 4 ==0&& n % 100!=0))

songay +=29;

else

songay += 28;

}

}

cout <<" So ngay trong nam la: " << songay << endl;

}

else

cout <<" So ngay khong hop le\n";

system ("pause");

return 0;

}