# 判断某日是一年中的第几天

## 问题分析

按照一定格式输入年月日 输出该日是该年得第几天

闰年判断：四年一闰 百年一闰 四百年再闰

闰年的2月份天数判断

## 代码实现

// Created by SonderLau  
#include <stdio.h>  
  
void main()  
{  
 int day, month, year, sum, leap;  
 printf("\nPlease Input a day like YYYY M D\n");  
 scanf("%d %d %d", &year, &month, &day);   
 if (month > 12 || month < 1 || day <28 || day >31 || year < 0){  
 printf("请输入正确的年份");  
 }  
 switch (month)   
 {  
 case 1:sum = 0;  
 break;  
 case 2:sum = 31;  
 break;  
 case 3:sum = 59;  
 break;  
 case 4:sum = 90;  
 break;  
 case 5:sum = 120;  
 break;  
 case 6:sum = 151;  
 break;  
 case 7:sum = 181;  
 break;  
 case 8:sum = 212;  
 break;  
 case 9:sum = 243;  
 break;  
 case 10:sum = 273;  
 break;  
 case 11:sum = 304;  
 break;  
 case 12:sum = 334;  
 break;  
 default:printf("data error");  
 break;  
 }  
 sum += day;  
  
 // LeapYear  
 if (year % 400 == 0 || (year % 4 == 0 && year % 100 != 0)) {  
 leap = 1;  
 } else {  
 leap = 0;  
 }  
 if (leap == 1 && month > 2) {   
 sum++;  
 }  
 printf("This is the %d day of %d", sum,year);  
   
}

## 操作说明

输入日期 按照年 月 日的格式 之间使用空格区分