1.4 日历系统阶段 3_物联网/嵌入式工程师 - 慕 课网

第课网慕课教程 1.4 日历系统阶段 3 涵盖海量编程基础技术教程,以图文图表的形式,把晦涩难懂的编程专业用语,以通俗易懂的方式呈现给用户。

```
W = (d + 2m + 3(m+1) / 5 + y + y / 4 - y / 100 + y / 400 + 1)\%7
```

<1>d 表示天数, m 表示月数, y 表示年数, W 表示星期几

<2> 若是,输入的月数是1月或者2月的话,则要转换成上

输入 2004-1-10, 则应该换成 2003-13-10 来计算

输入 2006-2-5, 则应换算成 2005-14-5 来计算

```
#include <stdio.h>
#define LE_YEAR 1
int Isleap(int y)
        if(((y \% 4 == 0) \&\& (y \% 100 != 0)) || (y \% 400 == 0))
                return 1;
       }else{
                return 0;
}
int max_day(int y,int m)
        int month[12] = \{31,28,31,30,31,30,31,30,31,30,31\};
        int ret = 0;
       ret = Isleap(y);
        if(ret == LE_YEAR)
                month[1] = 29;
       return month[m - 1];
}
int Total_day(int y,int m,int d)
        int sum = 0;
        int i = 0:
        int ret = 0;
#if 0
       ret = max_day(y,1);
```

```
printf("ret : %d\n",ret);
#endif
        for(i = 1; i < m; i++)
                sum = sum + max_day(y,i);
        sum = sum + d:
        return sum;
}
int weekday(int y,int m,int d)
{
        int count = 0;
        if(m == 1 || m == 2)
            m = m + 12;
            y = y - 1;
        count = (d + 2 * m + 3 * (m + 1) / 5 + y + y / 4 - y / 100 + y / 400 + 1) % 7;
        return count;
}
void display_week(int y,int m,int d)
{
        int count = 0;
        count = weekday(y,m,d);
        switch(count)
        case 0:
                        printf("%d-%d-%d is Sunday\n",y,m,d);
                        break;
        case 1:
                        printf("%d-%d-%d is Monday\n",y,m,d);
        case 2:
                        printf("%d-%d-%d is Tuesday\n",y,m,d);
                        break;
        case 3:
                        printf("%d-%d-%d is Wednesday\n",y,m,d);
                        break;
        case 4:
                        printf("%d-%d-%d is Thursday\n",y,m,d);
                        break;
        case 5:
                        printf("%d-%d-%d is Friday\n",y,m,d);
                        break;
        case 6:
                        printf("%d-%d-%d is Saturday\n",y,m,d);
                        break;
       }
}
int main()
    int year = 0, month = 0, day = 0;
    int ret = 0;
    printf("please input [year month day] : ");
    scanf("%d%d%d",&year,&month,&day);
    if(month < 1 \mid \mid month > 12 \mid \mid day < 1 \mid \mid day > 31)
    {
            printf("Input date is error!\n");
            return -1;
    }
    ret = Isleap(year);
    if(ret == LE_YEAR)
    {
            printf("%d-%d-%d is leap yar\n", year, month, day);\\
    }else{
            printf("%d-%d-%d is not leap yar\n",year,month,day);
    ret = Total_day(year,month,day);
```

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printf("%d-%d-%d is %d day of the year\n",year,month,day,ret);
 display_week(year,month,day);
}

全文完

本文由 简悦 SimpRead 优化,用以提升阅读体验

使用了 全新的简悦词法分析引擎 beta,点击查看详细说明



