

# THE CALENDER IN C

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int get_1st_weekday(int year){
```

```
    int d;
```

```
    d = (((year - 1) * 365) + ((year - 1) / 4) - ((year - 1) / 100) + ((year) / 400) + 1) % 7;
```

```
    return d;
```

```
}
```

```
int main()
```

```
{
```

```
    system("Color 3F");
```

```
    int year,month,day,daysInMonth,weekDay=0,startingDay;
```

```
    printf("\nEnter your favourite year:");
```

```
    scanf("%d",&year);
```

```
    char
```

```
*months[]={"January","February","March","April","May","June","July","August","September","October","November","December"};
```

```
    int monthDay[]={31,28,31,30,31,30,31,31,30,31,30,31};
```

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

```
        monthDay[1]=29;
```

```
    startingDay=get_1st_weekday(year);
```

```
    for(month=0;month<12;month++){
```

```
        daysInMonth=monthDay[month];
```

```
printf("\n\n-----%s-----\n",months[month]);
printf("\n Sun Mon Tue Wed Thurs Fri Sat\n");

for(weekDay=0;weekDay<startingDay;weekDay++)
    printf("  ");

for(day=1;day<=daysInMonth;day++){
    printf("%5d",day);

    if(++weekDay>6){
        printf("\n");
        weekDay=0;
    }
    startingDay=weekDay;
}

}

}
```