

# CALENDER OF A YEAR USING C PROGRAM

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#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()
{
    int year, month, day, daysInMonth, weekDay=0, startingDay;

    printf("\nEnter your desired 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 Thu 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;  
}  
}  
return 0;  
}
```