

## C programming code to print a calendar

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#include<stdio.h>
#include<conio.h>
void printPascalTr(int size);
int getFirstDay(int year,int month);
int getDayCode(int year);
void printCar(int year,int month);
int main()
{
    /* Calendar written by:
    */
    int i, year;
    char ch='y';
    while(ch=='y'){
        printf("Enter year of the calendar:");//year input
        scanf("%d",&year);
        //print calendar for the input year
        for(i=1;i<=12;i++)
            printCar(year,i);

        printf("Continue? press y:");
        scanf("%s",&ch);
    }
    getch();
    return 0;
}

//calculate the first day of week for current month
int getFirstDay(int year,int month){
    int fday=getDayCode(year);
    int num_days=0; //number of days of the year before the current month
    int dCode=getDayCode(year);
    switch(month){
        case 12: num_days+=30;
        case 11: num_days+=31;
        case 10: num_days+=30;
        case 9: num_days+=31;
        case 8: num_days+=31;
        case 7: num_days+=30;
        case 6: num_days+=31;
        case 5: num_days+=30;
        case 4: num_days+=31;
        case 3: num_days+=28;
        case 2: num_days+=31;

    }

    if(month==1) return(fday);
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        else if((year%4==0) || (year%400==0) && month>2) return (num_days+1+dCode)%7 ;
//leap year
        else return (num_days+dCode)%7;

    }
//calculate the first day of the year
int getDayCode(int year){
    int fday;
    fday=((year-1)*365+(year-1)/4-(year-1)/100+(year-1)/400+1)%7;
    return fday;
}

void printCar(int year, int month){
    int fday_month=getFirstDay(year,month);
    int code[7]={0,1,2,3,4,5,6};
    char *Day[7]={"Sun","Mon","Tues","Wed","Thu","Fri","Sat"};
    char
*Month[12]={"January","February","March","April","May","June","Junly","August","September",
"October","November","December"};
    int num_days,i;
    if(month==1||month==3||month==5||month==7|| month==8|| month==10|| month==12)
        num_days=31;
    else if(month==2)
    {
        if((year%4==0) || (year%400==0)) num_days=29;
        else num_days=28;

    }
    else num_days=30;

    printf("%s\n.....\n",Month[month-1]);
    printf("\nFirst day of the month:%s\n",Day[fday_month]);
    printf("%s\t%s\t%s\t%s\t%s\t%s\t%s\n", "Sun", "Mon", "Tues", "Wed", "Thu", "Fri", "Sat");
    for(i=1;i<=fday_month;i++) printf("\t", "");

    int d=1;
    int con=0;

    while(d<=num_days)
    {
        printf("%d\t",d);

        if(fday_month>0) {
            if(d==7-fday_month) { printf("\n");con=d;}
            else if(d%(con+7)==0) { printf("\n");con=d;}
        }
        else if(d%7==0) printf("\n");

        d++;
    }
}

```

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    }  
    printf("\n");  
}
```

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