#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 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 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;

}

}

}