#include <stdio.h>

#include <stdlib.h>

int get\_first\_weekDay(int year)

{

int day;

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

return day;

}

int main()

{

int year,day=0,dayInMonth,weekDay=0,startingDay,month;

printf("Enter your desired year: ");

scanf("%d",&year);

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

int monthDays[]={31,28,31,30,31,30,31,31,30,31,30,31};

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

{

monthDays[1]=29;

}

startingDay=get\_first\_weekDay(year);

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

{

dayInMonth=monthDays[month]+1;

printf("\n\n------------------%s----------------",months[month]);

printf("\n Sun Mon Tue Wed Thurs Fri Sat\n");

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

{

printf(" ");

}

for(day=1;day<dayInMonth;day++)

{

printf("%5d",day);

if(++weekDay>6)

{

printf("\n");

weekDay=0;

}

startingDay=weekDay;

}

}

}