#include <stdio.h>

struct data

{

int day;//距离1900.1.1星期一的总天数

int num;//该月天数

}data;

void count\_day(int,int);

void show(struct data data);

int main(int argc, const char \*argv[])

{

int year,month;

printf("Please input year-month:");

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

count\_day(year,month);

show(data);

return 0;

}

/\*计算距离1900.1.1的天数和该月的天数存储在结构体data中\*/

void count\_day(int year,int month)

{

int day,num;

day = (year-1900)\*365+(year-1900-1)/4;

switch (month-1)

{

case 12:

day += 31;

num = 31;

case 11:

day += 30;

num = 30;

case 10:

day += 31;

num = 31;

case 9:

day += 30;

num = 30;

case 8:

day += 31;

num = 31;

case 7:

day += 31;

num = 31;

case 6:

day += 30;

num = 30;

case 5:

day += 31;

case 4:

day += 30;

num = 30;

case 3:

day += 31;

num = 31;

case 2:

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

{

day += 29;

num = 29;

}

else

{

day += 28;

num = 28;

}

case 1:

day += 31;

num = 31;

case 0:

break;

}

data.day = day;

data.num = num;

}

void show(struct data data)

{

int i;

printf("一 二 三 四 五 六 日\n");

for(i=0;i<(data.day%7);i++)//移动到1号位置

{

printf(" ");

}

for (i=1;i<=data.num;i++)//打印日历

{

if((data.day+i)%7 == 0){

printf("%2d\n",i);

}

else{

printf("%2d ",i);

}

}

}