//March 25, 2009

//Program Zeller's: find the day of the week of the date

#include<iomanip.h>

int main(){

int dof,m,k,c,d,y;

cout<<"Enter date: ";

cin>>k;

cout<<"Enter month: ";

cin>>m;

cout<<"Enter year: ";

cin>>y;

if(m<3){

m=m+10;

}

else{

m=m-2;

}

c=y/100;

d=y%100;

dof = k + (int)(13\*m-1)/5 + d + (int)(d/4) + (int)(c/4) - 2\*c;

cout<<dof<<endl;

dof = dof + 7;

dof = dof%7;

cout<<dof<<endl;

return 0;

}