#include<stdio.h>

#include<math.h>

void main()

{

int a,p,n,m,year,td,z,r,da;

printf("enter the date/month/year\n");

scanf("%d",&n);

scanf("%d",&m);

scanf("%d",&year);

a=year-1;

p=((a\*365)+(a/4)-(a/100)+(a/400))%7;

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

{

td=365+1;

printf("the given year is leap year \n");

}

else

{

td=365;

printf("the given year is not leap year\n");

}

switch(m)

{

case 12: r=334+td;

break;

case 11: r=304+td;

break;

case 10: r=273+td;

break;

case 9: r=243+td;

break;

case 8: r=212+td;

break;

case 7: r=181+td;

break;

case 6: r=151+td;

break;

case 5: r=120+td;

break;

case 4: r=90+td;

break;

case 3: r=59+td;

break;

case 2: if (n<30)

r=31+td;

else

printf("the feb contain only max 29 \n");

break;

case 1: r= td;

break;

default :printf("invalid month\n");

}

z=r+p+n-2;

da=z%7;

switch(da)

{

case 0:printf("sunday\n");

break;

case 1:printf("monday\n");

break;

case 2:printf("tuesday\n");

break;

case 3:printf("wednesday\n");

break;

case 4:printf("thurday\n");

break;

case 5:printf("friday\n");

break;

case 6:printf("saturday\n");

break;

}

}