#include <iostream>

#include <ctime>

using namespace std;

struct Date {

int year;

int month;

int day;

};

Date today(void);

bool isLeap(int year);

int monthLenght(int year, int month);

int convertToDay(Date);

int main() {

Date t = today();

cout << "Curent date: " << t.year << "-" << t.month << "-" << t.day << endl;

Date bd;

cout << "Enter year: ";

cin >> bd.year;

cout << "Enter month: ";

cin >> bd.month;

cout << "Enter day: ";

cin >> bd.day;

cout << bd.year << "-" << bd.month << "-" << bd.day <<endl;

cout << "Days between " << t.year << "-" << t.month << "-" << t.day << " and " << bd.year << "-" << bd.month << "-" << bd.day << " equals " << convertToDay(t) - convertToDay(bd) << " days";

}

Date today(void){

Date date;

time\_t t = time(NULL);

tm tl = \*localtime(&t);

date.year = tl.tm\_year+1900;

date.month = tl.tm\_mon+1;

date.day = tl.tm\_mday;

return date;

}

bool isLeap(int year){

if(year%4==0){

return true;

}else{

return false;

}

}

int monthLenght(int year, int month){

int curentMonth;

static int arrMonthOfLeapYear[] = {31, 29, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

static int arrMonthOfNoLeapYear[] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

if(isLeap(year)){

curentMonth = arrMonthOfLeapYear[month];

return curentMonth;

}else{

curentMonth = arrMonthOfNoLeapYear[month];

return curentMonth;

}

}

int convertToDay(Date date){

int day=0;

for(int year = 1; year <date.year; year++){

if(isLeap(year)){

day += 366;

}else{

day +=365;

}

}

for(int month = 1; month < date.month; month++){

day += monthLenght(date.year, month);

}

day += date.day;

return day;

}