#include<iostream>

#include<string>

#include<map>

#include<vector>

#include<algorithm>

using namespace std;

struct Date {

int day;

int month;

int year;

};

class BirthdayList {

private:

map<string, Date> birthdays;

public:

void addBirthday(string name, int day, int month, int year) {

birthdays[name] = { day, month, year };

}

void editBirthday(string name, int day, int month, int year) {

birthdays[name] = { day, month, year };

}

void displayBirthday(string name) {

auto birthday = birthdays.find(name);

if (birthday == birthdays.end()) {

cout << "No birthday found for " << name << endl;

}

else {

cout << name << "'s birthday is on " << birthday->second.day << "/" << birthday->second.month << "/" << birthday->second.year << endl;

}

}

void displayMonthlyBirthdays(int month) {

cout << "Birthdays in month " << month << ":" << endl;

vector<string> names;

for (auto birthday : birthdays) {

if (birthday.second.month == month) {

names.push\_back(birthday.first);

}

}

sort(names.begin(), names.end());

for (auto name : names) {

cout << name << endl;

}

}

void searchBirthday(string name) {

auto birthday = birthdays.find(name);

if (birthday == birthdays.end()) {

cout << "No birthday found for " << name << endl;

}

else {

cout << name << "'s birthday is on " << birthday->second.day << "/" << birthday->second.month << "/" << birthday->second.year << endl;

}

}

};

int main() {

BirthdayList list;

list.addBirthday("Veronica", 8, 5, 2000);

list.addBirthday("Cateline", 25, 5, 2001);

list.addBirthday("Simrit", 18, 5, 2002);

list.addBirthday("Henny", 15, 7, 2003);

list.addBirthday("Cateline", 30, 9, 2006);

list.displayBirthday("Simrit");

list.displayBirthday("Rachael");

list.displayBirthday("Veronica");

list.displayMonthlyBirthdays(5);

list.searchBirthday("Piyush");

return 0;

}

