#include<iostream>

#include<string>

#include<vector>

struct Birthday

{

std::string name;

std::string mail;

int day;

int month;

int year;

};

void add\_birthday(std::vector<Birthday>& birthdays)

{

Birthday b;

std::cout<<"Enter name:";

std::cin>>b.name;

std::cout<<"Enter mail:";

std::cin>>b.mail;

std::cout<<"Enter day:";

std::cin>>b.day;

std::cout<<"Enter month:";

std::cin>>b.month;

std::cout<<"Enter year:";

std::cin>>b.year;

birthdays.push\_back(b);

}

void list\_birthdays\_in\_month(const std::vector<Birthday>& birthdays)

{

int month;

std::cout<<"Enter month:";

std::cin>>month;

std::cout<<"Birthday in month:"<<month<<":\n";

for(const auto& b : birthdays)

{

if (b.month == month)

{

std::cout<<b.name<<"("<<b.day<<")\n";

}

}

}

void edit\_birthday(std::vector<Birthday>& birthdays)

{

std::string name;

std::cout<<"Enter name";

std::cin>>name;

for(auto& b : birthdays)

{

if (b.name == name)

{

std::cout<<"Enter day:";

std::cin>>b.day;

std::cout<<"Enter month:";

std::cin>>b.month;

std::cout<<"Enter year:";

std::cin>>b.year;

return;

}

}

std::cout<<"Birthday not found.\n";

}

void search\_birthday(const std::vector<Birthday>& birthdays)

{

std::string name;

std::cout<<"Enter name:";

std::cin>>name;

for(const auto& b : birthdays)

{

if(b.name == name)

{

std::cout<<"NAME :"<<b.name;

std::cout<<",Email:"<<b.mail;

std::cout<<",DATE :"<<b.day<<b.month<<b.year<<"\n";

return;

}

}

std::cout<<"Birthday not found.\n";

}

void display\_menu()

{

std::cout<<"1.Add birthday\n";

std::cout<<"2.List birthdays in a month\n";

std::cout<<"3.Edit birthday\n";

std::cout<<"4.Search for a birthdays\n";

std::cout<<"5.Display all birthdays\n";

std::cout<<"6.Exit\n";

std::cout<<"Enter your choice(1-6):";

}

void display\_birthdays(const std::vector<Birthday>& birthdays)

{

std::cout<<"All birthdays:\n";

{

for(const auto& b : birthdays)

{

std::cout<<"NAME :"<<b.name;

std::cout<<",EMAIL :"<<b.mail;

std::cout<<",DATE :"<<b.day<<b.month<<b.year<<"\n";

}

}

}

int main()

{

std::vector<Birthday> birthdays;

int choice;

do

{

display\_menu();

std::cin>>choice;

switch(choice)

{

case 1:

add\_birthday(birthdays);

break;

case 2:

list\_birthdays\_in\_month(birthdays);

break;

case 3:

edit\_birthday(birthdays);

break;

case 4:

search\_birthday(birthdays);

break;

case 5:

display\_birthdays(birthdays);

break;

case 6:

std::cout<<"Existing...\n";

break;

default :

std::cout<<"Invalid choice.\n";

}

}while(choice != 6);

return 0;

}

