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#include <iostream>
#include<fstream>
using namespace std;
class student
{
public:
char name[20];
string phone;
public:
void accept();
void display();
};
void student::accept()
{
cin>>name;
cin>>phone;
}
void student::display()
{
cout<<name<<" "<<phone<<endl;
}
int main()
{
int ch;
int limit;
cout<<"Enter the number of people whose information is to be stored
"<<endl;
cin>>limit;
student *a=new student[limit];
fstream file;
file.open("data.txt",ios:: in | ios::out);
do
{
cout<<"1.Store 2.Display 3.Search 4.Modify 5.Exit"<<endl;
cin>>ch;
switch(ch)
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{
case 1:
cout<<"Enter the name and phone number"<<endl;
for(int i=0;i<limit;i++)
{
a[i].accept();
file.write((char*)&a[i],sizeof(a[i]));
}
break;
case 2:
cout<<"Stored information are :"<<endl;
for (int i=0;i<limit;i++)
{
a[i].display();
file.read((char*)&a[i],sizeof(a[i]));
}
break;
case 3:
int ch1;
cout<<"1.By Name 2.By Phone"<<endl;
cin>>ch1;
switch(ch1)
{
case 1:char name1[30];
cout<<"Enter the name to search"<<endl;
cin>>name1;
for(int i=0;i<limit;i++)
{
if(a[i].name==name1)
{
file.read((char*)&a[i],sizeof(a[i]));
cout<<a[i].phone<<endl;
}
}
break;
case 2:
string phone1;
cout<<"Enter the phone number of the person"<<endl;
cin>>phone1;
for(int i=0;i<limit;i++)

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{
if(a[i].phone==phone1)
{
file.read((char*)&a[i],sizeof(a[i]));
cout<<a[i].name<<endl;
}
}
break;
}
break;
case 4:
string phone2;
cout<<"Enter the old telephone number which you want to
modify"<<endl;
cin>>phone2;
for(int i=0;i<limit;i++)
{
if(a[i].phone==phone2)
{
file.read((char*)&a[i],sizeof(a[i]));
cout<<"Enter new phone number"<<endl;
cin>>phone2;
a[i].phone==phone2;
file.write((char*)&a[i],sizeof(a[i]));
}
}
break;
}
}
while(ch!=5);
return 0;
}

```