Main.cpp

```
#include "people.h"
#include <iostream>
using namespace std;
int main()
    People person;
    const int NAME SIZE = 51;
    const int ADDRESS SIZE = 51;
    const int PHONE SIZE = 14;
    char input[51];
    int intInput;
    double doubleInput;
    char again;
        cout << "Enter the following data about a person:\n";</pre>
        cout << "Name: ";
        cin.getline(input, NAME SIZE);
        person.setName(input);
        cout << "Address: ";</pre>
        cin.getline(input, ADDRESS SIZE);
        person.setAddress(input);
        cout << "Age: ";
        cin >> intInput;
        person.setAge(intInput);
```

```
cin.ignore(); // Skip over the remaining newline.
    cin.clear();
    cout << "Phone: ";</pre>
    cin.getline(input, PHONE SIZE);
    person.setPhone(input);
    cout << "Salary: ";
    cin >> doubleInput;
    person.setSalary(doubleInput);
    cin.ignore();
    person.writeToFile(person);
    cout << "Do you want to enter another record? ";</pre>
    cin >> again;
    cin.ignore(); // Skip over the remaining newline.
} while (again == 'Y' || again == 'y');
cout << endl;</pre>
People ppl;
ppl.readFromFile(ppl);
return 0;
```

People.h

```
#ifndef PEOPLE H
```

```
#define PEOPLE H
class People
   char name[51] = {};
   char address[51] = {};
   int age = 0;
   char phone [14] = \{\};
   double salary = 0;
public:
   void setName(char[]);
   char *getName();
   void setAge(int);
   int getAge();
   void setAddress(char[]);
   char *getAddress();
   void setPhone(char[]);
   char *getPhone();
   void setSalary(double);
   double getSalary();
   void writeToFile(People);
   void readFromFile(People);
```

People.cpp

```
#include "people.h"
#include <iostream>
#include <fstream>
using namespace std;
```

```
void People::setName(char input[])
   int count = 0;
   while (input[count] != '\0')
       name[count] = input[count];
       count++;
char *People::getName()
   return name;
void People::setAge(int input)
   age = input;
int People::getAge()
   return age;
void People::setAddress(char input[])
   while (input[count] != '\0')
       address[count] = input[count];
       count++;
```

```
char *People::getAddress()
   return address;
void People::setPhone(char input[])
   while (input[count] != '\0')
       phone[count] = input[count];
       count++;
char *People::getPhone()
   return phone;
void People::setSalary(double input)
   salary = input;
double People::getSalary()
   return salary;
```

```
roid People::writeToFile(People person)
   fstream peopleFile("people.dat", ios::app | ios::binary);
   if (!peopleFile)
        cout << "Error opening file. Program aborting.\n";</pre>
        peopleFile.write(reinterpret cast<char *>(&person),
sizeof(person));
       peopleFile.close();
void People::readFromFile(People person)
   fstream peopleFile;
   peopleFile.open("people.dat", ios::in | ios::binary);
   if (!peopleFile)
        cout << "Error opening file. Program aborting.\n";</pre>
        cout << "Here are the people in the file: \n\n";</pre>
        peopleFile.read(reinterpret cast<char *>(&person),
sizeof(person));
```

```
while (!peopleFile.eof())
             cout << "Name: ";</pre>
             cout << person.name << endl;</pre>
             cout << "Age: ";
             cout << person.age << endl;</pre>
             cout << "Address line: ";</pre>
             cout << person.address << endl;</pre>
             cout << "Phone: ";</pre>
             cout << person.phone << endl;</pre>
             cout << "Salary: ";</pre>
             cout << person.salary << endl;</pre>
             cout << "\nPress the Enter key to see the next</pre>
record.\n";
             cin.get();
             peopleFile.read(reinterpret cast<char *>(&person),
sizeof(person));
         cout << "That's all the data in the file!\n";</pre>
         peopleFile.close();
```

Output:

Enter the following data about a person:

Name: Test Name 1

Address: Test Address 1

Age: 20

Phone: 111-111-1111 Salary: 1000.75

Do you want to enter another record? y Enter the following data about a person:

Name: Testing Name 2

Address: Testing Address 2

Age: 25

Phone: 222-222-2222

Salary: 200.55

Do you want to enter another record? y Enter the following data about a person:

Name: Testing Name 3

Address: Testing Address 3

Age: 30

Phone: 333-333-3333

Salary: 375.90

Do you want to enter another record? y Enter the following data about a person:

Name: Testing Name 4

Address: Testing Address 4

Age: 35

Phone: 444-444-4444

Salary: 4570.99

Do you want to enter another record? n

Here are the people in the file:

Here are the people in the file:

Name: Test Name 1

Age: 20

Address line: Test Address 1

Phone: 111-111-1111

Salary: 1000.75

Press the Enter key to see the next record.

Name: Testing Name 2

Age: 25

Address line: Testing Address 2

Phone: 222-222-2222

Salary: 200.55

Press the Enter key to see the next record.

Name: Testing Name 3

Age: 30

Address line: Testing Address 3

Phone: 333-333-3333

Salary: 375.9

Press the Enter key to see the next record.

Name: Testing Name 4

Age: 35

Address line: Testing Address 4

Phone: 444-444-4444 Salary: 4570.99

Press the Enter key to see the next record.

That's all the data in the file!