

The Starter Code

The file `person.h` contains the definition of a `Person` structure, with `name`, `email` and `phone` data members, as well as the prototypes for some functions and operators.

```
struct Person {
    std::string name;
    std::string email;
    std::string phone;
};
```

The `main()` function creates an array of 1000 `Person` variables, and then calls the `load()` function to read all of the data from the text file and put it into the array.

```
const int kSize = 1000;
Person directory[kSize];
load(directory, kSize);
```

Following the array declaration is a `do-while` loop which asks the user for a last name, and which then calls the `find()` function to retrieve the record number.

```
bool done = false;
do {
    cout << "Enter the last name to search for (q to quit): ";
    string last;
    cin >> last;
    if (last == "q") done = true;
    else
    {
        int pos = find(directory, kSize, last);
        if (pos >= 0) {
            cout << "\nFound: " << directory[pos] << endl;
        } else {
            cout << "\nCannot find " << last << endl;
        }
    }
}
while (! done);
```

If the name is found in the directory, then the program prints out the full name, email and phone number. If the name could not be found, the program just prints "Not found" and allows the user to enter another name. The user can exit by entering "q" when asked for the last name.



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