

Philip Pesic

Week 16

December 5 2022

Week 16 Prog 6

Create a separate file with 10 records: Last Name, First Name, City, State, zip.

read the file records into an array

Sort the array by last name

Write out the sorted array to a new file.

```
//
```

```
// main.cpp
```

```
// Week 16 Prog 6
```

```
//
```

```
// Created by Pippo Pesic on 11/28/22.
```

```
//
```

```
#include <iostream>
```

```
#include <string>
```

```
#include <fstream>
```

```
using namespace std;
```

```
int main() {
```

```
    ifstream fin;
```

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```
fin.open("/Users/pippo/Desktop/Week 16 Prog 6/records.txt");
```

```
string line;
```

```
string records[10];
```

```
int count = 0;
```

```
while (!fin.eof()) {
```

```
getline(fin, line);
```

```
fin >> line;
```

```
records[count] = line;
```

```
count++;
```

```
};
```

```
int r = sizeof(records)/sizeof(records[0]);
```

```
sort(records, records+r);
```

```
for (int i = 0; i < r; i++) {
```

```
cout << records[i] << endl;
```

```
};
```

```
fin.close();
```

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```
        ofstream fout;

        fout.open("/Users/pippo/Desktop/Week 16 Prog 6/sorted records.txt");

        for (int i = 0; i < 10; i++) {

            fout << records[i] << endl;

        }

        cout << "Philip Pesic 12/5/22" << endl;

        return 0;

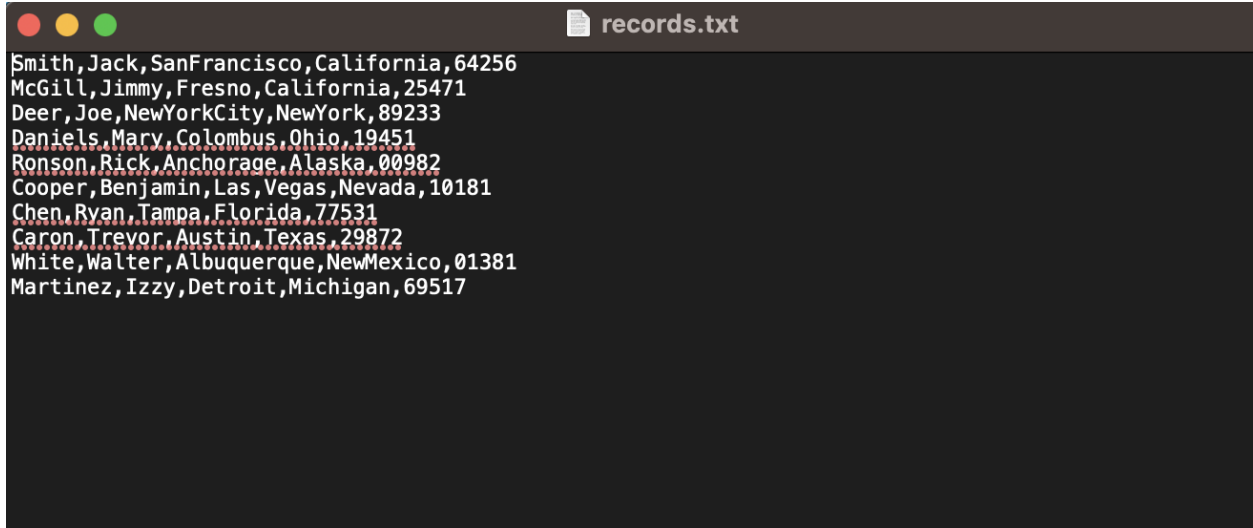
    }
```

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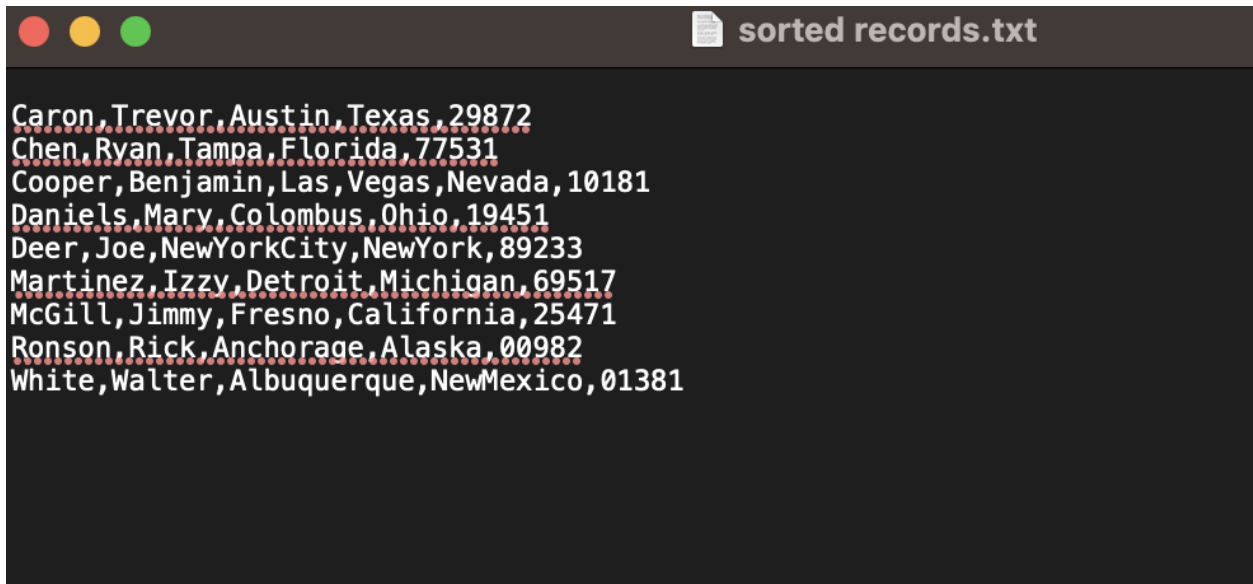
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```
Smith,Jack, San Francisco, California, 64256
McGill, Jimmy, Fresno, California, 25471
Deer, Joe, New York City, New York, 89233
Daniels, Mary, Columbus, Ohio, 19451
Ronson, Rick, Anchorage, Alaska, 00982
Cooper, Benjamin, Las Vegas, Nevada, 10181
Chen, Ryan, Tampa, Florida, 77531
Caron, Trevor, Austin, Texas, 29872
White, Walter, Albuquerque, New Mexico, 01381
Martinez, Izzy, Detroit, Michigan, 69517
```



```
Caron, Trevor, Austin, Texas, 29872
Chen, Ryan, Tampa, Florida, 77531
Cooper, Benjamin, Las Vegas, Nevada, 10181
Daniels, Mary, Columbus, Ohio, 19451
Deer, Joe, New York City, New York, 89233
Martinez, Izzy, Detroit, Michigan, 69517
McGill, Jimmy, Fresno, California, 25471
Ronson, Rick, Anchorage, Alaska, 00982
White, Walter, Albuquerque, New Mexico, 01381
```

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Week 16 Prog 6

The screenshot shows a C++ IDE with a project named "Week 16 Prog 6". The main.cpp file contains the following code:

```
12 // Week 16 Prog 6
13 int main() {
14     ifstream fin;
15     fin.open("/Users/pipipo/Desktop/Week 16 Prog 6/records.txt");
16
17     string line;
18     string records[10];
19     int count = 0;
20
21     while (!fin.eof()) {
22         getline(fin, line);
23         fin >> line;
24         records[count] = line;
25         count++;
26     };
27
28     int r = sizeof(records)/sizeof(records[0]);
29     sort(records, records+r);
30
31     for (int i = 0; i < r; i++) {
32         cout << records[i] << endl;
33     };
34     fin.close();
35
36     ofstream fout;
37     fout.open("/Users/pipipo/Desktop/Week 16 Prog 6/sorted records.txt");
38
39     for (int i = 0; i < 10; i++) {
40         fout << records[i] << endl;
41     }
42     cout << "Philip Pesic 12/5/22" << endl;
43     return 0;
44 }
```

The output window shows the sorted records from the file:

```
Caron, Trevor, Austin, Texas, 29872
Chen, Ryan, Tampa, Florida, 77531
Cooper, Benjamin, Las, Vegas, Nevada, 18181
Daniels, Mary, Columbus, Ohio, 19451
Deer, Joe, NewYorkCity, NewYork, 89233
Martinez, Izzy, Detroit, Michigan, 69517
McGill, Jimmy, Fresno, California, 25471
Ronson, Rick, Anchorage, Alaska, 80982
White, Walter, Albuquerque, NewMexico, 01381
Philip Pesic 12/5/22
Program ended with exit code: 0
```

I learned: how to interact with multiple files in one program