

Philip Pesic

Week 16

December 5 2022

Week 16 Prog 3

Use the file firstLastAge.txt from program 2.

Read in the data and print out the name and age of the youngest person, and also the oldest person.

If you are having difficulty, please remember to post questions in the weekly question and answer discussion

topic.

```
// main.cpp
```

```
// Week 16 Prog 3
```

```
//
```

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

```
//
```

```
#include <iostream>
```

```
#include <string>
```

```
#include <fstream>
```

```
using namespace std;
```

```
int main() {
```

```
    ifstream peopleFile;
```

Philip Pesic

Week 16

December 5 2022

Week 16 Prog 3

```
string word;

string wordsArray[15] = {};

int counter = 0;


peopleFile.open("/Users/pippo/Desktop/Week 16 Prog 3/firstLastAge.txt");


while(!peopleFile.eof()) {
    peopleFile >> word;
    wordsArray[counter] = word;
    counter++;
}


int minAge = 1000;
int maxAge = 0;
for(int i=2; i<15; i=i+3){
    int currentAge = stoi(wordsArray[i]);
    if (currentAge > maxAge){
        maxAge = currentAge;
    }
    if (currentAge < minAge){
        minAge = currentAge;
    }
}
```

Philip Pesic

Week 16

December 5 2022

Week 16 Prog 3

```
    }  
    }  
  
    cout << "Max age: " << maxAge << endl;  
  
    cout << "Min age: " << minAge << endl;  
  
    peopleFile.close();  
  
    cout << "Philip Pesic 12/5/22" << endl;  
  
    return 0;  
  
}
```

The screenshot shows a C++ IDE with a dark theme. The main editor window displays the source code for 'main.cpp'. The code includes headers for `<iostream>`, `<string>`, and `<fstream>`, uses the `std` namespace, and defines a `main` function. Inside `main`, it opens a file named 'firstLastAge.txt', reads its contents into an array, and then iterates through the array to find the maximum and minimum ages. The results are printed to the console using `cout`. The file is then closed, and the program prints the author's name and the date. The program returns 0 and ends.

The output window at the bottom shows the following text:

```
Max age: 23  
Min age: 17  
Philip Pesic 12/5/22  
Program ended with exit code: 0
```

I learned: how to store file contents and sort them