

Philip Pesic

Week 16

December 5 2022

Week 16 Prog 5

Write a program that the user is prompted for 10 test scores.

0 to 100 points each score.

Open a file for output, called savedTestScores.txt.

Write a loop that prompts the user for the 10 test scores.

Each time a test score is entered by the user, write the test score to savedNames file.

And save each test score to an array, called arrayTestScores.

Close the file.

Using the scores stored in the array, write a loop that reads through the array to

determine the minimum, maximum and average test scores.

Print out the minimum, maximum and average test scores.

Are the scores written to the file ?

```
//
```

```
// main.cpp
```

```
// Week 16 Prog 5
```

```
//
```

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

```
//
```

```
#include <iostream>
```

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```
#include <string>
```

```
#include <fstream>
```

```
using namespace std;
```

```
int main() {
```

```
    ofstream fout;
```

```
    fout.open("/Users/pippo/Desktop/Week 16 Prog 5/testScores.txt");
```

```
    int tempScore;
```

```
    int testScores[10] = {};
```

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

```
        cout << "Enter score: ";
```

```
        cin >> tempScore;
```

```
        cout << endl;
```

```
        testScores[i] = tempScore;
```

```
        fout << tempScore << endl;
```

```
    }
```

```
    fout.close();
```

```
    int minScore = 1000;
```

```
    int maxScore = 0;
```

```
    int avgScore = 0;
```

```
    int sumScores = 0;
```

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

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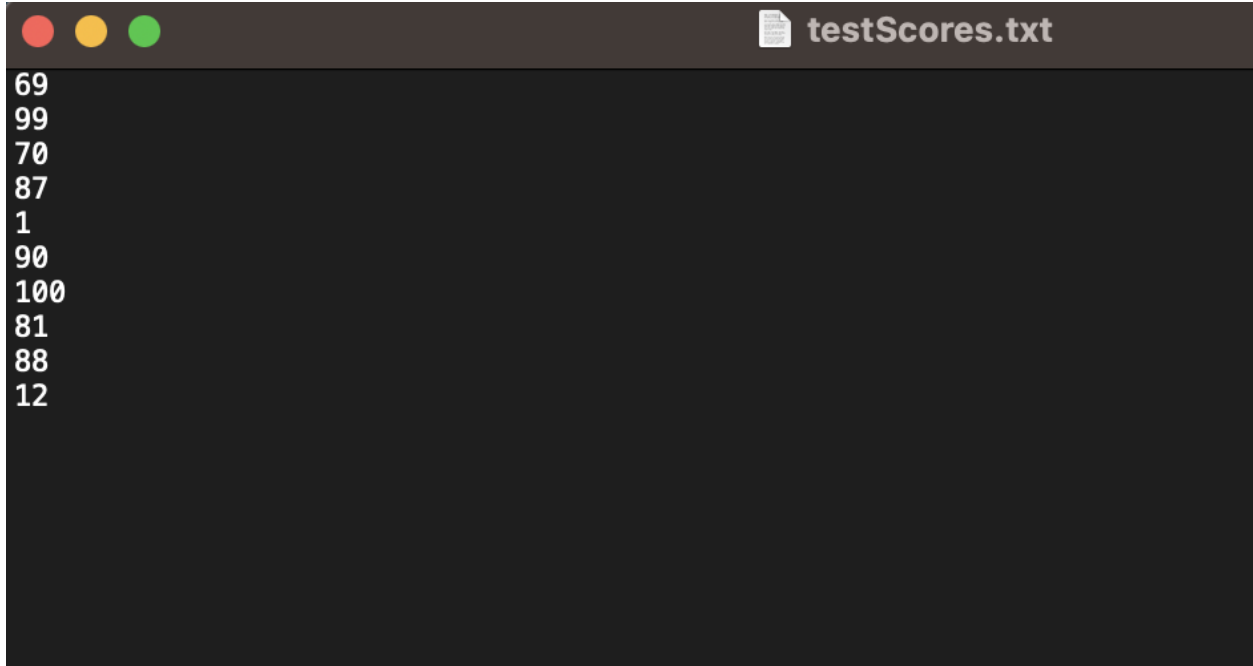
```
        if (testScores[i] < minScore) {  
            minScore = testScores[i];  
        }  
        if (testScores[i] > maxScore) {  
            maxScore = testScores[i];  
        }  
        sumScores = sumScores + testScores[i];  
    }  
    avgScore = (sumScores/10);  
    cout << "Lowest score: " << minScore << endl;  
    cout << "Highest score: " << maxScore << endl;  
    cout << "Average score: " << avgScore << endl;  
    cout << "Philip Pesic 12/5/22" << endl;  
    return 0;  
}
```

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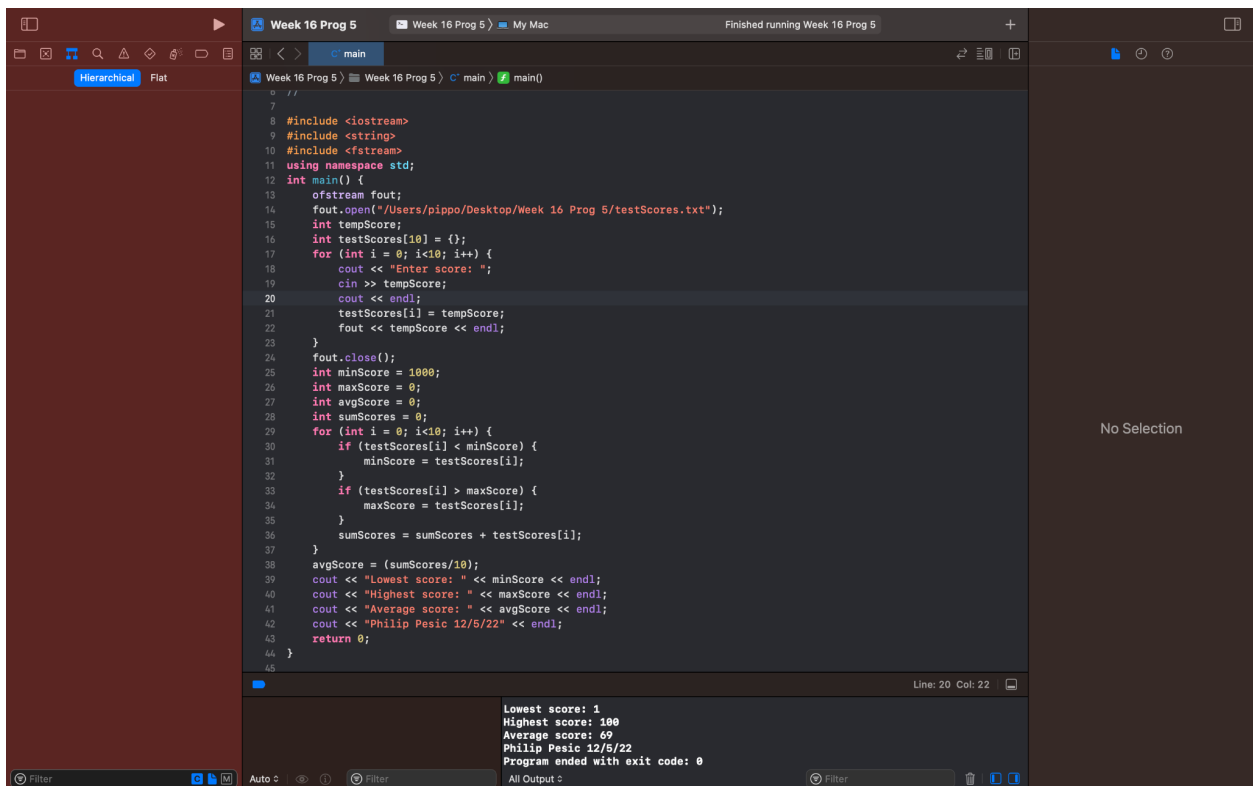
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```
69
99
70
87
1
90
100
81
88
12
```



```
// Week 16 Prog 5
#include <iostream>
#include <string>
#include <fstream>
using namespace std;
int main() {
    ofstream fout;
    fout.open("/Users/pippo/Desktop/Week 16 Prog 5/testScores.txt");
    int tempScore;
    int testScores[10] = {};
    for (int i = 0; i < 10; i++) {
        cout << "Enter score: ";
        cin >> tempScore;
        cout << endl;
        testScores[i] = tempScore;
        fout << tempScore << endl;
    }
    fout.close();
    int minScore = 1000;
    int maxScore = 0;
    int avgScore = 0;
    int sumScores = 0;
    for (int i = 0; i < 10; i++) {
        if (testScores[i] < minScore) {
            minScore = testScores[i];
        }
        if (testScores[i] > maxScore) {
            maxScore = testScores[i];
        }
        sumScores = sumScores + testScores[i];
    }
    avgScore = (sumScores/10);
    cout << "Lowest score: " << minScore << endl;
    cout << "Highest score: " << maxScore << endl;
    cout << "Average score: " << avgScore << endl;
    cout << "Philip Pesic 12/5/22" << endl;
    return 0;
}
```

Lowest score: 1
Highest score: 100
Average score: 69
Philip Pesic 12/5/22
Program ended with exit code: 0

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I learned: how to sort an array and then store its contents in a file