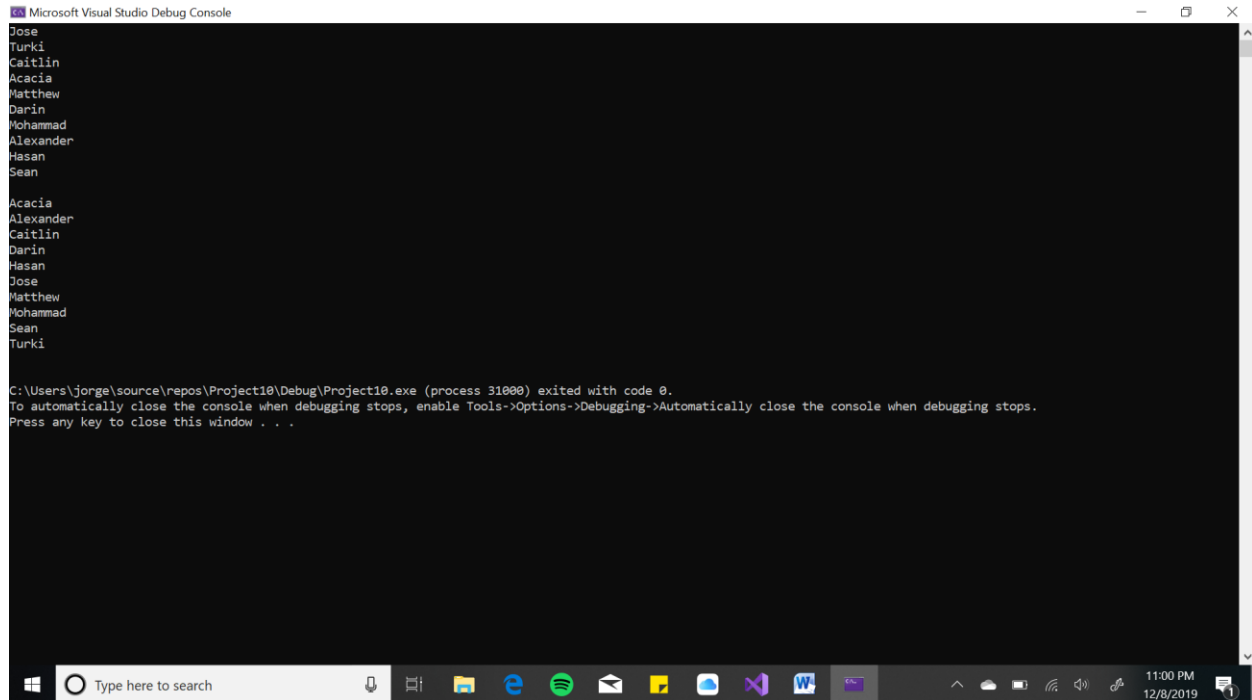


```

//Jorge Rivas
#include <iostream>
#include<fstream>
#include<string.h>
#include<algorithm>
using namespace std;
void copydata(string filename, string* names)
{
    fstream file;
    string word;
    file.open(filename.c_str());
    int i = 0;
    while (file >> word)
    {
        names[i] = word;
        i++;
    }
}
void displaynames(string* names)
{
    for (int i = 0; i < 10; i++)
        cout << names[i] << endl;
    cout << endl;
}
int main()
{
    string names[10];
    copydata("data.txt", names);
    displaynames(names);
    sort(names, names + 10);
    displaynames(names);
    return 0;
}

```



```
//Jorge Rivas
#include<iostream>

using namespace std;
void selectionSort(int a[], int n) {
    int i, j, min, temp;
    for (i = 0; i < n - 1; i++) {
        min = i;
        for (j = i + 1; j < n; j++)
            if (a[j] < a[min])
                min = j;

        temp = a[i];
        a[i] = a[min];
        a[min] = temp;
    }
}
int main()
{
    int a[7] = { 9, 11, 15, 7, 20, 30, 26 };
    int n = sizeof(a) / sizeof(a[0]);
    int i;
    int Min = 0;
    int Max = 0;
    float average = 0.0;
    float sum = 0.0;

    cout << "This is the original array:" << endl;
    for (i = 0; i < 7; i++)
        cout << a[i] << " ";
}
```

```

Min = a[0]; Max = a[0];
for (int i = 1; i < 7; i++)
{
    if (Min > a[i]) { Min = a[i]; }
    else if (Max < a[i]) { Max = a[i]; }
}
cout << "\n" << endl;
cout << "Maximum number is: " << Max << endl;
cout << "Minimum number is: " << Min << endl;

for (i = 0; i < 7; ++i)
{ sum += a[i]; }
cout << "\n";
average = sum / 7;
cout << "Average = " << average;
cout << "\n";

selectionSort(a, 7);
printf("\nSorted array is: \n");
for (i = 0; i < 7; i++)
    cout << a[i] << " ";
return 0;
}

```

Microsoft Visual Studio Debug Console

```

This is the original array:
9 11 15 7 20 30 26

Maximum number is: 30
Minimum number is: 7

Average = 16.8571

Sorted array is:
7 9 11 15 20 26 30
C:\Users\jorge\source\repos\Project10\Debug\Project10.exe (process 42196) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

```

The screenshot shows the output of a C++ program in the Visual Studio debug console. The program prints the original array, the maximum and minimum values, the average, and the sorted array. The Windows taskbar is visible at the bottom with the time 9:11 PM on 12/8/2019.