

## Task 1

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int temp,sum;
```

```
    int a[5] = {17,6,8,9,17};
```

```
    for (int i; i<=4;++i){
```

```
        temp = a[i];
```

```
        sum = 1;
```

```
        for (int j = i + 1;j<=4;++j){
```

```
            if (a[j] == temp){
```

```
                sum++;
```

```
            }
```

```
        }
```

```
        cout << "Number "<<temp<< " was found "<< sum << " times."<<endl;
```

```
    }
```

```
    return 0;
```

```
}
```

main.cpp

```
1
2 #include <iostream>
3
4 using namespace std;
5
6 int main()
7 {
8     int temp,sum;
9     int a[5] = {17,6,8,9,17};
10    for (int i; i<=4;++i){
11        temp = a[i];
12        sum = 1;
13        for (int j = i + 1;j<=4;++j){
14            if (a[j] == temp){
15                sum++;
16            }
17        }
18        cout << "Number "<<temp<< " was found "<< sum << " times."<<endl;
19    }
20
21    return 0;
22 }
```

Number 17 was found 2 times.  
Number 6 was found 1 times.  
Number 8 was found 1 times.  
Number 9 was found 1 times.  
Number 17 was found 1 times.

...Program finished with exit code 0  
Press ENTER to exit console.

## TASK 2

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {  
    int a[8] = {13, 15, 17, 9, 99, 77, 65, 43};  
    int max = a[0];  
    int min = a[0];  
    for (int i = 1; i < 8; ++i) {  
        if (a[i] > max) {  
            max = a[i];  
        }  
        if (a[i] < min) {  
            min = a[i];  
        }  
    }  
    cout << "Maximum value: " << max << endl;  
    cout << "Minimum value: " << min << endl;  
    return 0;  
}
```

main.cpp

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main() {
6      int a[8] = {13, 15, 17, 9, 99, 77, 65, 43};
7      int max = a[0];
8      int min = a[0];
9      for (int i = 1; i < 8; ++i) {
10         if (a[i] > max) {
11             max = a[i];
12         }
13         if (a[i] < min) {
14             min = a[i];
15         }
16     }
17     cout << "Maximum value: " << max << endl;
18     cout << "Minimum value: " << min << endl;
19     return 0;
20 }
21
```

Maximum value: 99

Minimum value: 9

...Program finished with exit code 0

Press ENTER to exit console.

### TASK 3

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {  
    int arr[5];  
    cout << "Enter values:" << endl;  
    for (int i = 0; i < 5; ++i) {  
        cout << "Index " << i + 1 << ": ";  
        cin >> arr[i];  
    }  
    cout << "Before:" << endl;  
    for (int i = 0; i < 5; ++i) {  
        cout << arr[i] << "\t";  
    }  
    cout << endl;  
    int temp = arr[2];  
    arr[2] = arr[4];  
    arr[4] = temp;  
  
    cout << "After:" << endl;  
    for (int i = 0; i < 5; ++i) {  
        cout << arr[i] << "\t";  
    }  
    cout << endl;  
    return 0;  
}
```

main.cpp

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main() {
6      int arr[5];
7      cout << "Enter values:" << endl;
8      for (int i = 0; i < 5; ++i) {
9          cout << "Index " << i + 1 << ": ";
10         cin >> arr[i];
11     }
12     cout << "Before:" << endl;
13     for (int i = 0; i < 5; ++i) {
14         cout << arr[i] << "\t";
15     }
16     cout << endl;
17     int temp = arr[2];
18     arr[2] = arr[4];
19     arr[4] = temp;
20
21     cout << "After:" << endl;
22     for (int i = 0; i < 5; ++i) {
23         cout << arr[i] << "\t";
24     }
25     cout << endl;
26     return 0;
27 }
28
```

Enter values:

Index 1: 7

Index 2: 6

Index 3: 5

Index 4: 4

Index 5: 3

Before:

7	6	5	4	3
---	---	---	---	---

After:

7	6	3	4	5
---	---	---	---	---

...Program finished with exit code 0

Press ENTER to exit console.