

## TASK 3

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5
6     const int size = 5;
7     int numbers[size];
8
9     for (int i = 0; i < size; i++) {
10         cout << "Enter the number " << i + 1 << " : ";
11         cin >> numbers[i];
12     }
13
14     for (int i = 0; i < size - 1; i++) {
15         int index = i;
16
17         for (int j = i + 1; j < size; j++) {
18             if (numbers[j] < numbers[index]) {
19                 index = j;
20             }
21         }
22
23         swap(numbers[i], numbers[index]);
24     }
25
26     cout << " The Sorted array is : ";
27     for (int i = 0; i < size; i++) {
28         cout << numbers[i] << " ";
29     }
30     cout << endl;
31
32     return 0;
33 }
```

/tmp/2dzVw0Esri.o

Enter the number 1 : 4

Enter the number 2 : 5

Enter the number 3 : 2

Enter the number 4 : 7

Enter the number 5 : 4

The Sorted array is : 2 4 4 5 7

## TASK 2

main.cpp



Run

Output

```
1 #include<iostream>
2 using namespace std;
3
4 // Bubble sort.
5
6 int main(){
7
8     int n;
9     cout<< " Enter total no of elements : ";
10    cin>>n;
11
12    int arr[n];
13    for( int i = 0; i<n; i++){
14
15        cout<<" The "<<i<<" space element in array is :";
16        cin>>arr[i]; }
17    int counter = 1;
18    while(counter<n-1){
19
20        for(int i = 0; i < n-counter ; i++){
21            if(arr[i]>arr[i+1]){
22                int temp = arr[i];
23                arr[i] = arr[i+1];
24                arr[i+1] = temp;
25            }
26        }
27        counter ++; }
28    cout<<" The sorted array is :";
29    for(int i=0; i<n; i++){
30        cout<<arr[i]<<" ";
31    }
32    cout<<endl;
33
34    return 0;
35 }
```

/tmp/2dzVw0Esrl.o

```
Enter total no of elements : 5
The 0 space element in array is :12
The 1 space element in array is :33
The 2 space element in array is :78
The 3 space element in array is :66
The 4 space element in array is :19
The sorted array is :12 19 33 66 78
```

## TASK 1

main.cpp	Run	Output
<pre>1 #include&lt;iostream&gt; 2 using namespace std; 3 4 // Computing average value. 5 6 int main(){ 7 8     int size = 5; 9     int numbers[size] ; 10    int sum=0 ; 11    float average; 12 13    for( int i = 0; i &lt; 5; i++){ 14        cout&lt;&lt;" Number "&lt;&lt;i+1&lt;&lt;" = "; 15        cin&gt;&gt;numbers[i]; 16        sum+=numbers[i]; 17    } 18 19    average = sum/size; 20    cout&lt;&lt;" The average is = "&lt;&lt;average; 21 22    return 0; 23 24 }</pre>		<pre>/tmp/2dzVw0Esri.o Number 1 = 1 Number 2 = 2 Number 3 = 3 Number 4 = 4 Number 5 = 5 The average is = 3</pre>