```
1 #include <bits/stdc++.h>
 2 #include <array>
 3 using namespace std;
 4 void bubbleSort(int arr[], int n)
 5 {
 6
        int i, j;
 7
        bool swapped;
 8
        for (i = 0; i < n - 1; i++) {
            swapped = false;
 9
            for (j = 0; j < n - i - 1; j++) {
10
                if (arr[j] > arr[j + 1]) {
11
                     swap(arr[j], arr[j + 1]);
12
13
                     swapped = true;
14
                }
15
            }
16
            if (swapped == false)
17
                break;
18
        }
19 }
20 void printArray(int arr[], int size)
21 {
22
        int i;
23
        for (i = 0; i < size; i++)</pre>
            cout << " " << arr[i];</pre>
24
25 }
26 int main()
27 {
28
        int size;
        std::cout << "Enter the size of the array: ";</pre>
29
        std::cin >> size;
30
        if (size <= 0) {</pre>
31
            std::cerr << "Invalid array size. Please enter a positive integer." >
32
               << std::endl;
33
            return 1;
34
        }
35
36
        int array[size];
37
        std::cout << "Enter the elements of the array:" << std::endl;</pre>
38
39
        for (int i = 0; i < size; ++i) {</pre>
            std::cout << "Element " << i + 1 << ": ";
40
41
            std::cin >> array[i];
42
        }
43
44
        int N = sizeof(array) / sizeof(array[0]);
        bubbleSort(array, N);
45
        cout << "Sorted array: \n";</pre>
46
47
        printArray(array, N);
        return 0;
48
```