```
1 #include <iostream>
 2
 3 using namespace std;
 5 void insertionSort(int array[], int size) {
      for (int i = 1; i < size; i++) {</pre>
        int key = array[i];
 7
 8
        int j = i - 1;
        while (j >= 0 && array[j] > key) {
 9
          array[j + 1] = array[j];
10
11
        }
12
13
        array[j + 1] = key;
14
15 }
16
17 int main() {
18
      int size;
19
        std::cout << "Enter the size of the array: ";</pre>
20
        std::cin >> size;
        if (size <= 0) {</pre>
21
22
            std::cerr << "Invalid array size. Please enter a positive integer." 🤝
                << std::endl;</pre>
23
            return 1;
24
        }
25
        int array[size];
26
27
28
        std::cout << "Enter the elements of the array:" << std::endl;</pre>
29
        for (int i = 0; i < size; ++i) {</pre>
            std::cout << "Element " << i + 1 << ": ";
30
31
            std::cin >> array[i];
32
        }
33
34
      insertionSort(array, size);
      cout << "\nThe sorted array is: ";</pre>
35
      for (int i = 0; i < size; i++) {</pre>
36
37
        cout << array[i] << " ";</pre>
38
      }
39
      return 0;
40 }
```