insertion-sort-algorithm.cpp

```
// C++ program for insertion sort
#include <bits/stdc++.h>
using namespace std;
// insertion sort
void insertionSort(int arr[], int n)
  int i, key, j;
  for (i = 1; i < n; i++) {
    key = arr[i];
    j = i - 1;
    while (j \ge 0 \&\& arr[j] > key) {
       arr[j + 1] = arr[j];
       j = j - 1;
    arr[j + 1] = key;
  }
}
int main()
  int arr[] = { 12, 190, 18, 9, 6, 244, 0, -11, 27 };
  int n = sizeof(arr) / sizeof(arr[0]);
  insertionSort(arr, n);
  cout << "Sorted array: \n";</pre>
  int i;
  for (i = 0; i < n; i++) {
    cout << arr[i] << " ";
  return 0;
```

OUTPUT

```
PS S:\WorkSpace\CollegeWork\DataStructure> g++ .\insertion-sort-algorithm.cpp
PS S:\WorkSpace\CollegeWork\DataStructure> ./a
Sorted array:
-11 0 6 9 12 18 27 190 244
PS S:\WorkSpace\CollegeWork\DataStructure>
```