selection-sort-algorithm.cpp

```
// a c++ program for selection sort.
#include <bits/stdc++.h>
using namespace std;

//Selection sort function.
void selectionSort(int arr[], int n)
{
   int i, j, min_idx;
   for (i = 0; i < n - 1; i++) {
      min_idx = i;
      for (j = i + 1; j < n; j++) {
         if (arr[j] < arr[min_idx])
            min_idx = j;
      }
      if (min_idx != i)
         swap(arr[min_idx], arr[i]);
   }
}

int main()
{
   int arr[] = { 1, 2, 18, 9, 6, 244, 24, 23, 0, -11, 27 };
   int n = sizeof(arr) / sizeof(arr[0]);
   selectionSort(arr, n);
   cout << "Sorted array: \n";
   int i;
   for (i = 0; i < n; i++) {
      cout << arr[i] << " ";
   }
   return 0;
}
```

OUTPUT

```
PS S:\WorkSpace\CollegeWork\DataStructure> g++ .\selection-sort-algorithm.cpp
PS S:\WorkSpace\CollegeWork\DataStructure> ./a
Sorted array:
-11 0 1 2 6 9 18 23 24 27 244
PS S:\WorkSpace\CollegeWork\DataStructure>
```