**selection-sort-algorithm.cpp**

// a c++ program for selection sort.

#include <iostream>

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\Temp> g++ .\selection-sort-algorithm.cpp

PS S:\WorkSpace\CollegeWork\DataStructure\Temp> ./a

Sorted array: -11 0 1 2 6 9 18 23 24 27 244

PS S:\WorkSpace\CollegeWork\DataStructure\Temp>