#include <iostream>

using namespace std;

void insertionSort(int arr[], int n) {

for (int i = 1; i < n; i++) {

int key = arr[i]; // Current element to be inserted

int j = i - 1;

// Move elements of arr[0..i-1], that are greater than key,

// one position ahead of their current position

while (j >= 0 && arr[j] > key) {

arr[j + 1] = arr[j];

j--;

}

arr[j + 1] = key;

}

}

void printArray(int arr[], int n) {

for (int i = 0; i < n; i++) {

cout << arr[i] << " ";

}

cout << endl;

}

int main() {

int arr[] = {5, 3, 8, 6, 2};

int n = sizeof(arr) / sizeof(arr[0]);

cout << "Original array: ";

printArray(arr, n);

insertionSort(arr, n);

cout << "Sorted array: ";

printArray(arr, n);

return 0;

}