#include <stdio.h>

// Function to perform Bubble Sort on an array

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

for (int i = 0; i < n - 1; i++) {

for (int j = 0; j < n - i - 1; j++) {

// Swap if the element found is greater than the next element

if (arr[j] > arr[j + 1]) {

int temp = arr[j];

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

arr[j + 1] = temp;

}

}

}

}

// Function to print an array

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

for (int i = 0; i < size; i++)

printf("%d ", arr[i]);

printf("\n");

}

int main() {

int arr[] = {64, 34, 25, 12, 22, 11, 90};

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

printf("Unsorted array: \n");

printArray(arr, n);

// Perform Bubble Sort

bubbleSort(arr, n);

printf("Sorted array: \n");

printArray(arr, n);

return 0;

}