#include<stdio.h>

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

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

int minIndex=i;

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

if (arr[j]<arr[minIndex]){

minIndex=j;

}

}

int temp = arr[i];

arr[i] = arr[minIndex];

arr[minIndex] = temp;

}

}

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

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

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

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

int temp = arr[j];

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

arr[j + 1] = temp;

}

}

}

}

int main() {

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

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

printf("Original array: ");

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

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

}

printf("\n");

selectionSort(arr, n);

printf("Sorted array using selection sort: ");

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

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

}

printf("\n");

bubbleSort(arr, n);

printf("Sorted array using bubble sort: ");

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

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

}

printf("\n");

return 0;

}