#include <stdio.h> void swap(int \*xp, int \*yp) { int temp = \*xp; \*xp = \*yp; \*yp = temp; } int bubbleSort(int arr[], int n) { int i, j,count=0; int swapped; for (i = 0; i < n-1; i++) { swapped = 0; for (j = 0; j < n-i-1; j++) { if (arr[j] > arr[j+1]) { swap(&arr[j], &arr[j+1]); swapped = 1; count++; } } if (swapped == 0) break; } return count; } void printArray(int arr[], int size) { int i; for (i=0; i < size; i++) printf("%d ", arr[i]); printf("\n"); } int main() { int arr[50],num; printf("enter the number of elements"); scanf("%d",&num); printf("enter the elements"); for(int i=0;i<num;i++){

scanf("%d",&arr[i]); } int c=bubbleSort(arr, num); printf("Sorted array: \n"); printArray(arr, num); printf("Number of passes:%d\n",c); return 0; }