Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

#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;  
}