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 s;
for(i=0;i<n-1;i++)
{
s=0;
for(j=0;j<n-i-1;j++)
{
if(arr[j]>arr[j+1])
swap(&arr[i],&arr[j+1]);
s=1;
count++;
}
```

```
if(s==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,i;
printf("enter the number of elements");
scanf("%d",&num);
printf("enter the elements");
for(i=0;i<num;i++)
{
scanf("%d",&arr[i]);
int c=bubblesort(arr,num);
printf("sorted array:\n");
printArray(arr,num);
```

```
\label{eq:continuous_printf} \begin{split} & printf(\text{``number of passes:}\%d\n'',c); \\ & return \ 0; \\ & \rbrace \end{split}
```