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#include<stdio.h>
void display(int arr[],int count)
{
    printf("[ ");
    for(int i=0;i<count;i++)
    {
        printf("%d,",arr[i]);
    }
    printf("]\n");
}

void bubblesort(int arr[],int count)
{
    int itr,i,swap,temp;
    for(itr =1;itr<count;itr++)
    {
        swap=0;
        for(i=0;i<count-itr;i++)
        {
            printf("compairing elements [%d , %d]\n",arr[i],arr[i+1]);
            if(arr[i]>arr[i+1])
            {
                temp = arr[i+1];
                arr[i+1] = arr[i];
                arr[i] = temp;
                swap =1;
                printf("swapped elements [%d , %d]\n",arr[i],arr[i+1]);
            }
        }
        if(swap == 0)
        {
            break;
        }
        printf("list after %dst iteration==>>>",itr);
        display(arr,count);
    }
}

void main()
{
    int arr[10],count;
    printf("Enter the total number of elements\n");
    scanf("%d",&count);
    for(int i=0;i<count;i++)
    {
        scanf("%d",&arr[i]);
    }
    printf("Unsorted elements are\n");
    display(arr,count);
    bubblesort(arr,count);
    printf("sorted elements are\n");
    display(arr,count);
}
```

