

```

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DATE        :20/10/22
PROGRAM     :BUBBLE SORT
INSTITUTION :MES COLLEGE OF ENGINEERING */

```

```

#include<stdio.h>
void main()
{
    int i,a[100],j,temp,n,k;
    printf("Enter the size of array");
    scanf("%d",&n);
    printf("Enter the elements to the array");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<n;i++)
    {
        printf("pass %d: ",i+1);
        for(j=0;j<n-1;j++)
        {
            if(a[j]>a[j+1])
            {
                temp=a[j];
                a[j]=a[j+1];
                a[j+1]=temp;
            }
        }
        for(k=0;k<n;k++)
        {
            printf("%d\t",a[k]);
        }
        printf("\n");
    }
    printf("The sorted array is: ");
    for(i=0;i<n;i++)
    {
        printf("%d  ",a[i]);
    }
}

```

Output :-

```

Enter the size of array
5
Enter the elements to the array
64
25
12
22
10

```

pass 1:	25	12	22	10	64
pass 2:	12	22	10	25	64
pass 3:	12	10	22	25	64
pass 4:	10	12	22	25	64
pass 5:	10	12	22	25	64

The sorted array is: 10 12 22 25 64