COMB SORT

MIHIR.K.PANJIKAR XI SCI B 724

```
#include<stdio.h>
void comb_sort(int n,int arr[30]);
int main()
{
        int arr[30],n,i;
        printf("Enter no. of elemets you want to enter:");
        scanf("%d",&n);
        printf("\nEnter the elements\n");
        for(i=0;i<n;i++)
        {
                scanf("%d",&arr[i]);
        }
        printf("\nArray before sorting:");
        for(i=0;i<n;i++)
        {
                printf("%d.",arr[i]);
        }
        comb_sort(n,arr);
}
void comb_sort(int n,int arr[30])
{
        int gap,swap,i,temp;
```

```
gap=n;
swap=1;
while(gap!=1 || swap == 0)
{
       gap=gap/1.3;
        swap=0;
       for(i=0;i<n-gap;i++)
       {
               if(arr[i]>arr[i+gap])
               {
                       temp=arr[i];
                        arr[i]=arr[i+gap];
                        arr[i+gap]=temp;
                        swap=1;
               }
       }
}
printf("\n\nArray after sorting:");
for(i=0;i<n;i++)
{
       printf("%d.",arr[i]);
}
```

}

```
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```
COURSTANGED Pagitan Conditive Decision (CSC) programs (Project Comb sortices

Enter no. of elements

243

65
23
87
34
98
677
34
12
76
898
45
320
342
53

Array before sorting: 243.65.23.87.34.98.677.34.12.76.898.45.320.342.53.

Array after sorting: 12.23.34.34.45.53.65.76.87.98.243.320.342.677.898.

Process exited after 18.42 seconds with return value 0

Press any key to continue . . .
```

```
Enter no. of elemets you want to enter:13

Enter the elements
21
23
54
66
87
9
0
12
65
45
3
43
12

Array before sorting:21.23.54.6.87.9.0.12.65.45.3.43.12.

Array after sorting:0.3.6.9.12.12.21.23.43.45.54.65.87.
```

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```

```
Enter no. of elemets you want to enter:2

Enter the elements
34
6

Array before sorting:34.6.

Array after sorting:6.34.

Process exited after 16.36 seconds with return value 0

Press any key to continue . . . _
```

```
Comparison of elements you want to enter:14

Enter the elements

43

656

8734

123

2

21

434

0

6

4

8

9

43

2

Array before sorting:43.656.8734.123.2.21.434.0.6.4.8.9.43.2.

Array after sorting:0.2.2.4.6.8.9.21.43.43.123.434.656.8734.

Process exited after 19.71 seconds with return value 0

Press any key to continue . . . _
```

```
Enter no. of elemets you want to enter:4

Enter the elements
23
54
7
1

Array before sorting:23.54.7.1.

Array after sorting:1.7.23.54.

Process exited after 8.621 seconds with return value 0

Press any key to continue . . . _
```