

**Aim:**

Design a C program that sorts the strings using array of pointers.

**Sample input output****Sample input-output -1:**

Enter the number of strings: 2

Enter string 1: Tantra

Enter string 2: Code

Before Sorting

Tantra

Code

After Sorting

Code

Tantra

**Sample input-output -2:**

Enter the number of strings: 3

Enter string 1: India

Enter string 2: USA

Enter string 3: Japan

Before Sorting

India

USA

Japan

After Sorting

India

Japan

USA

**Source Code:**

stringssort.c

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
void main()
{
    char*temp;
    int i,j,diff,n;
    char * strarray[10];
    printf("Enter the number of strings: ");
    scanf("%d" ,&n);
    for(i=0;i<n;i++)
    {
        printf("Enter string %d: ",i+1);
        strarray[i]=(char *)malloc(sizeof(char)*20);
        scanf("%s" ,strarray[i]);
    }
    printf("Before Sorting\n");
    for(i=0;i<n;i++)
    {
```

```

for(i=0;i<n-1;i++)
{
    for(j=0;j<n-1;j++)
    {
        diff=strcmp(strarray[j],strarray[j+1]);
        if(diff>0)
        {
            temp=strarray[j];
            strarray[j]=strarray[j+1];
            strarray[j+1]=temp;
        }
    }
}
printf("After Sorting\n");
for(i=0;i<n;i++)
{
    printf("%s\n",strarray[i]);
}
}

```

### Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the number of strings: 2
Enter string 1: Tantra
Enter string 2: Code
Before Sorting
Tantra
Code
After Sorting
Code
Tantra

Test Case - 2
User Output
Enter the number of strings: 3
Enter string 1: Dhoni
Enter string 2: Kohli
Enter string 3: Rohit
Before Sorting
Dhoni
Kohli
Rohit
After Sorting
Dhoni
Kohli
Rohit