S.No: 1 Exp. Name: Design a C program which sorts the strings using array of pointers

Date: 2023-04-24

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

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```
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```

```
#include<stdio.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++)
                printf("%s\n",strarray[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]);
        }
}
```

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	

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Date: 2023-04-24

Aim:

Write a program to search a **key element** with in the given array of elements using linear search process.

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the input as:

```
Enter value of n:3
```

Next, the program should print the messages one by one on the console as:

```
Enter element for a[0] :
Enter element for a[1] :
Enter element for a[2] :
```

if the user gives the input as:

```
Enter element for a[0] : 89
Enter element for a[1] : 33
Enter element for a[2] : 56
```

Next, the program should print the message on the console as:

```
Enter key element :
```

if the user gives the input as:

```
Enter key element : 56
```

then the program should **print** the result as:

```
The key element 56 is found at the position \ensuremath{\mathbf{2}}
```

Similarly if the key element is given as **25** for the above one dimensional array elements then the program should print the output as "**The key element 25** is not found in the array".

Fill in the missing code so that it produces the desired result.

Source Code:

```
LinearSearch.c
```

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```
int main()
{
        int a[10],i,j,n,flag=0;
        printf("Enter value of n : ");
        scanf("%d",&n);
        for(i=0;i<n;i++)
                printf("Enter element for a[%d] : ",i);
                scanf("%d",&a[i]);
        }
        printf("Enter key element : ");
        scanf("%d",&j);
        for(i=0;i<n;i++)
        {
                if(j==a[i])
                {
                        flag++;
                        break;
                }
        }
        if(flag==1)
        {
                printf("The key element %d is found at the position %d",j,i);
        }
        else
        {
                printf("The key element %d is not found in the array",j);
        }
        printf("\n");
}
```

#include<stdio.h>

Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
Enter value of n :
Enter element for a[0] :
Enter element for a[1] :
22
Enter element for a[2] :
33
Enter element for a[3] :
44
Enter key element :
22
The key element 22 is found at the position 1
```

Test Case - 2	
User Output	
Enter value of n :	
7	
Enter element for a[0] :	
101	
Enter element for a[1] :	
102	
Enter element for a[2] :	
103	
Enter element for a[3] :	
104	
Enter element for a[4] :	
105	
Enter element for a[5] :	
106	
Enter element for a[6] :	
107	
Enter key element :	
110	
The key element 110 is not found in the array	

Date: 2023-05-08

Aim:

Write a program to **search** a key element in the given array of elements using binary search.

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the input as:

```
Enter value of n : 3
```

Next, the program should print the messages one by one on the console as:

```
Enter element for a[0] :
Enter element for a[1] :
Enter element for a[2] :
```

if the user gives the input as:

```
Enter element for a[0] : 89
Enter element for a[1] : 33
Enter element for a[2] : 56
```

Next, the program should print the message on the console as:

```
Enter key element :
```

if the user gives the input as:

```
Enter key element : 56
```

then the program should **print** the result as:

```
After sorting the elements in the array are
Value of a[0] = 33
Value of a[1] = 56
Value of a[2] = 89
The key element 56 is found at the position 1
```

Similarly if the key element is given as **25** for the above one dimensional array elements then the program should print the output as "**The Key element 25** is **not found in the array**".

Fill in the missing code so that it produces the desired result.

Source Code:

```
BinarySearch.c
```

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```
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```

```
for(i=0;i<n;i++)
                printf("Enter element for a[%d] : ",i);
                scanf("%d",&a[i]);
        }
       for(i=0;i<n-1;i++)
                for(j=i+1;j<n;j++)
                        if(a[j]<a[i])
                                temp=a[i];
                                a[i]=a[j];
                                a[j]=temp;
                        }
                }
       printf("Enter key element : ");
        scanf("%d",&k);
       printf("After sorting the elements in the array are\n");
       for(i=0;i<n;i++)
                printf("Value of a[%d] = %d\n",i,a[i]);
       }
       for(i=0;i<n;i++)
                if(k==a[i])
                {
                        flag++;
                        break;
                }
        if(flag==1)
       printf("The key element %d is found at the position %d\n",k,i);
       printf("The Key element %d is not found in the array\n",k);
}
```

#include<stdio.h> void main()

> int a[5],i,j,temp,k,n,flag=0; printf("Enter value of n : ");

scanf("%d",&n);

{

Execution Results - All test cases have succeeded!

Test Case - 1 **User Output** Enter value of n : 3 Enter element for a[0] : 25

15
Enter element for a[2] :
23
Enter key element :
45
After sorting the elements in the array are
Value of a[0] = 15
Value of a[1] = 23
Value of a[2] = 25
The Key element 45 is not found in the array

Test Case - 2	
User Output	
Enter value of n :	
2	
Enter element for a[0] :	
80	
Enter element for a[1] :	
39	
Enter key element :	
50	
After sorting the elements in the array are	
Value of a[0] = 39	
Value of a[1] = 80	
The Key element 50 is not found in the array	

Aim:

Write a C program to implement Fibonacci search technique **Source Code:**

```
FibonacciSearch.c
```

```
#include<stdio.h>
void main()
{
        int a[20],i,j,n,flag=0;
        printf("Enter the size of an array: ");
        scanf("%d",&n);
        printf("Enter the %d array elements\n",n);
        for(i=0;i<n;i++)
        {
                scanf("%d",&a[i]);
        }
        printf("Enter the element to be searched: ");
        scanf("%d",&j);
        for(i=0;i<n;i++)
        {
                if(j==a[i])
                {
                        flag++;
                        break;
                }
        if(flag==1)
        printf("Element found at index: %d.\n",i);
        printf("Element not found.\n");
}
```

Execution Results - All test cases have succeeded!

Test Case - 1 **User Output** Enter the size of an array: Enter the 5 array elements 34567 Enter the element to be searched: 3 Element found at index: 0.

Test Case - 2

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Enter the size of an array:
5
Enter the 5 array elements
3 4 5 6 7
Enter the element to be searched:
4
Element found at index: 1.

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Date: 2023-05-08

Aim:

Write a program to sort the given elements using insertion sort technique.

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the input as:

```
Enter value of n: 3
```

Next, the program should print the messages one by one on the console as:

```
Enter element for a[0] :
Enter element for a[1] :
Enter element for a[2] :
```

if the user gives the input as:

```
Enter element for a[0] : 22
Enter element for a[1] : 33
Enter element for a[2] : 12
```

then the program should print the result as:

```
Before sorting the elements in the array are
Value of a[0] = 22
Value of a[1] = 33
Value of a[2] = 12
After sorting the elements in the array are
Value of a[0] = 12
Value of a[1] = 22
Value of a[2] = 33
```

Fill in the missing code so that it produces the desired result.

Source Code:

```
InsertionSortDemo3.c
```

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```
{
        int a[20],i,j,n,temp;
        printf("Enter value of n : ");
        scanf("%d",&n);
        for(i=0;i<n;i++)
                printf("Enter element for a[%d] : ",i);
                scanf("%d",&a[i]);
        printf("Before sorting the elements in the array are\n");
        for(i=0;i<n;i++)
        printf("Value of a[%d] = %d",i,a[i]);
        printf("\n");
for(i=0;i<n;i++)
{
        for(j=i+1;j<n;j++)
        {
                if(a[i]>a[j])
                {
                        temp=a[i];
                        a[i]=a[j];
                        a[j]=temp;
                }
        }
printf("After sorting the elements in the array are\n");
for(i=0;i<n;i++){
       printf("Value of a[%d] = %d",i,a[i]);
        printf("\n");
}
}
```

#include<stdio.h> void main()

Execution Results - All test cases have succeeded!

```
Test Case - 1
User Output
Enter value of n :
Enter element for a[0] :
Enter element for a[1] :
9
Enter element for a[2] :
2
Enter element for a[3] :
Enter element for a[4] :
```

Enter element for a[5] :
3
Before sorting the elements in the array are
Value of a[0] = 5
Value of a[1] = 9
Value of a[2] = 2
Value of a[3] = 5
Value of a[4] = 1
Value of a[5] = 3
After sorting the elements in the array are
Value of a[0] = 1
Value of a[1] = 2
Value of a[2] = 3
Value of a[3] = 5
Value of a[4] = 5
Value of a[5] = 9

Test Case - 2 **User Output** Enter value of n : Enter element for a[0] : 5 Enter element for a[1] : Enter element for a[2] : 4 Before sorting the elements in the array are Value of a[0] = 5Value of a[1] = 9Value of a[2] = 4After sorting the elements in the array are Value of a[0] = 4Value of a[1] = 5Value of a[2] = 9

Aim:

Write a program to sort the given array elements using selection sort smallest element method.

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the **input** as:

```
Enter value of n : 3
```

Next, the program should print the messages one by one on the console as:

```
Enter element for a[0] :
Enter element for a[1] :
Enter element for a[2] :
```

if the user gives the input as:

```
Enter element for a[0] : 22
Enter element for a[1] : 33
Enter element for a[2] : 12
```

then the program should **print** the result as:

```
Before sorting the elements in the array are
Value of a[0] = 22
Value of a[1] = 33
Value of a[2] = 12
After sorting the elements in the array are
Value of a[0] = 12
Value of a[1] = 22
Value of a[2] = 33
```

Fill in the missing code so that it produces the desired result.

Source Code:

```
SelectionSortDemo6.c
```

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```
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```

#include<stdio.h> void main()

for(i=0;i<n;i++)

for(i=0;i<n;i++)

{

}

for(i=0;i<n;i++)

int a[20],i,j,n,small,index; printf("Enter value of n : ");

printf("Enter element for a[%d] : ",i);

printf("Before sorting the elements in the array are\n");

printf("Value of a[%d] = %d",i,a[i]);

scanf("%d",&n); for(i=0;i<n;i++)

scanf("%d",&a[i]);

printf("\n");

for(j=i+1;j<n;j++)

}

printf("\n");

index=i;

small=a[i]; a[i]=a[index]; a[index]=small;

if(a[j]<a[index])</pre>

index=j;

printf("After sorting the elements in the array are\n");

printf("Value of a[%d] = %d",i,a[i]);

{

{

{

}

}

Test Case - 1
User Output
Enter value of n :
4
Enter element for a[0] :
78
Enter element for a[1] :
43
Enter element for a[2] :

Enter element for a[3] :
27
Before sorting the elements in the array are
Value of a[0] = 78
Value of a[1] = 43
Value of a[2] = 99
Value of a[3] = 27
After sorting the elements in the array are
Value of a[0] = 27
Value of a[1] = 43
Value of a[2] = 78
Value of a[3] = 99

Date: 2023-05-08

Aim:

Write a program to sort (ascending order) the given elements using shell sort technique.

At the time of execution, the program should print the message on the console as:

```
Enter array size :
```

For example, if the user gives the input as:

```
Enter array size : 5
```

Next, the program should print the following message on the console as:

```
Enter 5 elements :
```

if the user gives the input as:

```
Enter 5 elements : 34 67 12 45 22
```

then the program should **print** the result as:

```
Before sorting the elements are : 34 67 12 45 22 After sorting the elements are : 12 22 34 45 67
```

Note: Do use the **printf()** function with a **newline** character (\n). Source Code:

ShellSort2.c

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```
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```

for(j=i;j>=gap && arr[j-gap]>temp;j-=gap)

arr[j]=arr[j-gap];

#include<stdio.h> int main()

> int size; int *arr,i;

scanf("%d",&size);

for(i=0;i<size;i++)</pre>

printArray(arr,size); shellsort(arr,size);

printArray(arr,size);

return 0;

int shellsort(int arr[],int n)

int gap,i,j,temp;

}

void printArray(int arr[],int n)

printf("\n");

}

for(int i=0;i<n;i++)</pre>

for(gap=n/2;gap>0;gap/=2)

for(i=gap;i<n;i++)</pre>

printf("Enter array size : ");

arr = (int*) malloc(size * sizeof(int)); printf("Enter %d elements : ",size);

printf("Before sorting the elements are : ");

printf("After sorting the elements are : ");

temp=arr[i];

arr[j] = temp;

printf("%d ",arr[i]);

scanf("%d",&arr[i]);

{

}

{

```
Test Case - 1
User Output
Enter array size :
Enter 5 elements :
```

Before sorting the elements are : 12 32 43 56 78 After sorting the elements are : 12 32 43 56 78

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Aim:

Write a program to **sort** the given elements using (bubble sort technique).

At the time of execution, the program should print the message on the console as:

```
Enter value of n :
```

For example, if the user gives the input as:

```
Enter value of n:3
```

Next, the program should print the messages one by one on the console as:

```
Enter element for a[0] :
Enter element for a[1] :
Enter element for a[2] :
```

if the user gives the input as:

```
Enter element for a[0] : 22
Enter element for a[1] : 33
Enter element for a[2] : 12
```

then the program should print the result as:

```
Before sorting the elements in the array are
Value of a[0] = 22
Value of a[1] = 33
Value of a[2] = 12
After sorting the elements in the array are
Value of a[0] = 12
Value of a[1] = 22
Value of a[2] = 33
```

Fill in the missing code so that it produces the desired result.

Source Code:

```
BubbleSortDemo3.c
```

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```
#include<stdio.h>
void main()
{
        int a[20],i,j,n,temp;
        printf("Enter value of n : ");
        scanf("%d",&n);
        for(i=0;i<n;i++)
                printf("Enter element for a[%d] : ",i);
                scanf("%d",&a[i]);
        printf("Before sorting the elements in the array are\n");
        for(i=0;i<n;i++)
                printf("Value of a[%d] = %d",i,a[i]);
                printf("\n");
        }
        for(i=0;i<n-1;i++)
                for(j=i+1;j<n;j++)
                {
                        if(a[i]>a[j])
                        {
                                temp=a[i];
                                a[i]=a[j];
                                a[j]=temp;
                        }
                }
        printf("After sorting the elements in the array are\n");
        for(i=0;i<n;i++)
                printf("Value of a[%d] = %d\n",i,a[i]);
        }
}
```

```
Test Case - 1
User Output
Enter value of n :
3
Enter element for a[0] :
Enter element for a[1] :
25
Enter element for a[2] :
Before sorting the elements in the array are
Value of a[0] = 34
Value of a[1] = 25
```

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Test Case - 2
User Output
Enter value of n :
5
Enter element for a[0] :
1
Enter element for a[1] :
6
Enter element for a[2] :
3
Enter element for a[3] :
8
Enter element for a[4] :
4
Before sorting the elements in the array are
Value of a[0] = 1
Value of a[1] = 6
Value of a[2] = 3
Value of a[3] = 8
Value of a[4] = 4
After sorting the elements in the array are
Value of a[0] = 1
Value of a[1] = 3
Value of a[2] = 4
Value of a[3] = 6
Value of a[4] = 8

Date: 2023-05-17

Aim:

Write a program to sort (Ascending order) the given elements using quick sort technique.

Note: Pick the first element as pivot. You will not be awarded marks if you do not follow this instruction.

At the time of execution, the program should print the message on the console as:

```
Enter array size :
```

For example, if the user gives the input as:

```
Enter array size : 5
```

Next, the program should print the following message on the console as:

```
Enter 5 elements :
```

if the user gives the input as:

```
Enter 5 elements : 34 67 12 45 22
```

then the program should print the result as:

```
Before sorting the elements are : 34 67 12 45 22 After sorting the elements are : 12 22 34 45 67 \,
```

Note: Do use the **printf()** function with a **newline** character $(\n$). Source Code:

```
QuickSortMain.c
```

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```
#include<stdio.h>
void main() {
        int arr[15],i,n;
        printf("Enter array size : ");
        scanf("%d", &n);
        printf("Enter %d elements : ",n);
        for(i=0;i<n;i++) {
                scanf("%d",&arr[i]);
        printf("Before sorting the elements are : ");
        display(arr, n);
        quickSort(arr, 0, n - 1);
        printf("After sorting the elements are : ");
        display(arr, n);
void display(int arr[15], int n) {
        int i:
        for(i=0;i<n;i++) {
                printf("%d ",arr[i]);
        printf("\n");
int partition(int arr[15], int lb, int ub) {
        int pivot,down=lb,up=ub,temp;
        pivot=arr[lb];
        while(down<up) {</pre>
        while (arr[down]<=pivot&&down<up) {</pre>
          down++;
   while(arr[up]>pivot) {
          up--;
   if(down<up) {</pre>
          temp=arr[up];
          arr[up]=arr[down];
          arr[down]=temp;
}
 arr[lb]=arr[up];
 arr[up]=pivot;
 return up;
void quickSort(int arr[15],int low,int high) {
        int j;
        if(low<high) {</pre>
           j=partition(arr,low,high);
           quickSort(arr,low,j-1);
           quickSort(arr,j+1,high);
}
```

Test Case - 1	
User Output	
Enter array size :	
5	
Enter 5 elements :	
34 67 12 45 22	
Before sorting the elements are : 34 67 12 45 22	
After sorting the elements are : 12 22 34 45 67	

Test Case - 2
User Output
Enter array size :
8
Enter 8 elements :
77 55 22 44 99 33 11 66
Before sorting the elements are : 77 55 22 44 99 33 11 66
After sorting the elements are : 11 22 33 44 55 66 77 99

Test Case - 3
User Output
Enter array size :
5
Enter 5 elements :
-32 -45 -67 -46 -14
Before sorting the elements are : -32 -45 -67 -46 -14
After sorting the elements are : -67 -46 -45 -32 -14

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S.No: 10 Exp. Name: Write a C program to sort the given elements using Heap sort

Date: 2023-05-17

Aim:

Write a program to sort (ascending order) the given elements using heap sort technique.

Note: Do use the printf() function with a newline character (\n). Source Code:

HeapSortMain.c

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```
#include<stdio.h>
void main()
{
        int arr[15],i,n;
        printf("Enter array size : ");
        scanf("%d",&n);
        printf("Enter %d elements : ",n);
        for(i=0;i<n;i++)
                scanf("%d",&arr[i]);
        printf("Before sorting the elements are : ");
        display(arr, n);
        heapsort(arr, n);
        printf("After sorting the elements are : ");
        display(arr, n);
int display(int arr[15],int n)
{
        int i;
        for(i=0;i<n;i++)
                printf("%d ",arr[i]);
        printf("\n");
}
int heapsort(int arr[15],int n)
        for(int i=n/2-1;i>=0;i--)
                heapify(arr,n,i);
        }
        for(int i=n-1;i>=0;i--)
                int temp=arr[0];
                arr[0]=arr[i];
                arr[i]=temp;
                heapify(arr,i,0);
int heapify(int arr[15],int n,int i)
        int largest=i;
        int l=2*i+1;
        int r=2*i+2;
        if(l<n && arr[l]>arr[largest])
        largest=1;
        if(r<n && arr[r]>arr[largest])
        largest=r;
        if(largest!=i)
                int temp=arr[i];
                arr[i]=arr[largest];
                arr[largest]=temp;
                heapify(arr,n,largest);
```

Test Case - 1 **User Output** Enter array size : Enter 5 elements : 23 54 22 44 12 Before sorting the elements are : 23 54 22 44 12 After sorting the elements are : 12 22 23 44 54

Test Case - 2
User Output
Enter array size :
6
Enter 6 elements :
12 65 23 98 35 98
Before sorting the elements are : 12 65 23 98 35 98
After sorting the elements are : 12 23 35 65 98 98

Test Case - 3
User Output
Enter array size :
4
Enter 4 elements :
-23 -45 -12 -36
Before sorting the elements are : -23 -45 -12 -36

Test Case - 4
User Output
Enter array size :
6
Enter 6 elements :
1 -3 8 -4 -2 5
Before sorting the elements are : 1 -3 8 -4 -2 5
After sorting the elements are : -4 -3 -2 1 5 8

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Date: 2023-05-19

Aim:

Write a program to sort (Ascending order) the given elements using merge sort technique.

At the time of execution, the program should print the message on the console as:

```
Enter array size :
```

For example, if the user gives the input as:

```
Enter array size : 5
```

Next, the program should print the following message on the console as:

```
Enter 5 elements :
```

if the user gives the input as:

```
Enter 5 elements : 34 67 12 45 22
```

then the program should **print** the result as:

```
Before sorting the elements are : 34 67 12 45 22 After sorting the elements are : 12 22 34 45 67 \,
```

Note: Do use the **printf()** function with a **newline** character (\n). Source Code:

```
MergeSortMain.c
```

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```
#include<stdio.h>
void main()
{
        int arr[15],i,n;
        printf("Enter array size : ");
        scanf("%d",&n);
        printf("Enter %d elements : ",n);
        for(i=0;i<n;i++)
                 scanf("%d",&arr[i]);
        }
        printf("Before sorting the elements are : ");
        display(arr, n);
        splitAndMerge(arr, 0, n - 1);
        printf("After sorting the elements are : ");
        display(arr, n);
void display(int arr[15], int n)
{
        for(i=0;i<n;i++)
        printf("%d ",arr[i]);
        printf("\n");
void merge(int arr[15],int low,int mid,int high)
        int i=low,h=low,j=mid+1,k,temp[15];
        while(h<=mid&&j<=high)</pre>
        {
                 if(arr[h]<=arr[j])</pre>
                 {
                         temp[i]=arr[h];
                         h++;
                 }
                 else
                 {
                         temp[i]=arr[j];
                          j++;
                 }
                 i++;
        if(h>mid)
                 for(k=j;k<=high;k++)</pre>
                         temp[i]=arr[k];
                         i++;
                 }
        }
        else
        {
                 for(k=h; k<=mid; k++)</pre>
                 {
                         temp[i]=arr[k];
                         i++;
```

```
for(k=low;k<=high;k++)</pre>
        {
          arr[k]=temp[k];
void splitAndMerge(int arr[15], int low, int high)
        if(low<high)
        {
                int mid=(low+high)/2;
                splitAndMerge(arr,low,mid);
                splitAndMerge(arr,mid+1,high);
                merge(arr,low,mid,high);
        }
}
```

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Test Case - 1	
User Output	
Enter array size :	
5	
Enter 5 elements :	
34 67 12 45 22	
Before sorting the elements are : 34 67 12 45 22	
After sorting the elements are : 12 22 34 45 67	

Test Case - 2
User Output
Enter array size :
8
Enter 8 elements :
77 55 22 44 99 33 11 66
Before sorting the elements are : 77 55 22 44 99 33 11 66
After sorting the elements are : 11 22 33 44 55 66 77 99

Test Case - 3	
User Output	
Enter array size :	
5	
Enter 5 elements :	
-32 -45 -67 -46 -14	
Before sorting the elements are : -32 -45 -67 -46 -14	
After sorting the elements are : -67 -46 -45 -32 -14	

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Date: 2023-06-08

Aim:

Write a program to sort (ascending order) the given elements using radix sort technique.

At the time of execution, the program should print the message on the console as:

```
Enter array size :
```

For example, if the user gives the input as:

```
Enter array size : 5
```

Next, the program should print the following message on the console as:

```
Enter 5 elements :
```

if the user gives the input as:

```
Enter 5 elements : 34 67 12 45 22
```

then the program should **print** the result as:

```
Before sorting the elements are : 34 67 12 45 22 After sorting the elements are : 12 22 34 45 67 \,
```

Note: Do use the **printf()** function with a **newline** character (\n). Source Code:

RadixSortMain2.c

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