#include <stdio.h> int main()

{ int a[20]; int n,i,j,temp,key; int first,mid,last;

printf("Enter the size of the array :");

scanf("%d",&n);

printf("Enter %d elements :",n);

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

{

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

}

printf("The elements of the array before sorting is ----\n");

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

{

printf("%d\t",a[i]);

}

for(i=0;i<n-1;i++)

{

for(j=0;j<n-1-i;j++)

{

if(a[j]>a[j+1])

{

temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

}

}

printf("\n\nThe sorted array is ---\n"); for(i=0;i<n;i++)

{

printf("%d\t",a[i]);

}

Out put:

$ cc binary.c

$ ./a.out

Enter the size of the array :5

Enter 5 elements :6

7

8

9

45

The elements of the array before sorting is-------

6 7 8 9 45

The sorted array is --------

6 7 8 9 45

Enter the element to be searched :7

The element 7 is found at location 2

$ ./a.out

Enter the size of the array :6

Enter 5 elements :6

3

7

9

34

23

The elements of the array before sorting is-------

6 3 7 9 34 23

The sorted array is --------

3 6 7 9 23 34

Enter the element to be searched :66

The element 66 is not found in the array