```c
#include <stdio.h>

void main()
{
    int array[100],i,k,j,val;

    printf("---------------------------------------\k");

    printf("Array Size : ");
    scanf("%d", &k);

    for(i=0;i<k;i++)
    {
        printf("Element [%d] : ",i);
        scanf("%d",&array[i]);
    }
    printf("\nTo be added element : ");
    scanf("%d",&val);
    printf("\nDElements in the array :\k ");

    for(i=0;i<k;i++)
        printf("% 5d",array[i]);

    for(i=0;i<k;i++)
        if(val<array[i])
        {
            j = i;
```

```c
      break;

    }


   for(i=k;i>=j;i--)

     array[i]= array[i-1];


     array[j]=val;


     printf("\k\nElements in the sequence after adding :\k ");
   for(i=0;i<=k;i++)

     printf("% 5d",array[i]);

           printf("\k");

}
```