```
// 16. Write a C program to arrange a series of numbers using Insertion Sort
#include<stdio.h>
int main(){
  int i, j, count, temp, number[25];
   printf("ENTER THE NUMBER OF ELEMENTS: ");
  scanf("%d",&count);
  printf("Enter %d elements: ", count);
  for(i=0;i<count;i++)
      scanf("%d",&number[i]);
  for(i=1;i<count;i++){</pre>
     temp=number[i];
     j=i-1;
     while((temp < number[j]) & & (j > = 0)){
        number[j+1]=number[j];
        j=j-1;
     number[j+1]=temp;
  printf("Order of Sorted elements: ");
  for(i=0;i<count;i++)
     printf(" %d",number[i]);
  return 0;
   D:\data structures lab\insertion sort.c - [Executing] - Dev-C++ 5.11
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 (globals)
 Project Classes Debug [*] enque, deque, display.c vadefs.h inorder, preorder, postorder.c hashing using linear probing.c insertion sort.c
                  1 // 16. Write a C program to arrange a series of numbers using Insertion Sort
2 #include<stdio.h>
                  #include<sto
| int main(){</pre>
                                                                     TER THE NUMBER OF ELEMENTS: 5
                       int i, j, count, temp, number[25];
                       printf("ENTER THE NUMBER OF ELEMENTS: ");
                        scanf("%d",&count);
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                                                                     der of Sorted elements: 1 2 3 6 8
                                                                      ocess exited after 22.03 seconds with return value 0
                       for(i=0;i<count;i++)
                          scanf("%d",&number[i]);
                       for(i=1;i<count;i++){</pre>
                          temp=number[i]:
                          temp=number[i];
j=i-1;
while((temp<number[j])&&(j>=0)){
   number[j+1]=number[j];
   j=j-1;
                          number[j+1]=temp;
                       printf("Order of Sorted elements: ");
for(i=0;i<count;i++)</pre>
                         printf(" %d",number[i]);
                       return 0;
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```