```
#include <stdio.h>
#include<conio.h>
void insertion_sort(int x[],int length)
 int key,i,j;
 for(j=1;j<length;j++)
  key=x[j];
  i=j-1;
  while(x[i]>key && i>=0)
        x[i+1]=x[i];
     i--:
  x[i+1]=key;
void main()
 void insertion_sort(int [],int);
 int A[100];
 int x=0,n=0;
 clrscr();
 printf("******INSERTION SORT*****");
 printf("\n\nENTER THE LIMIT : ");
 scanf("%d",&n);
 printf("\n\nENTER THE ELEMENTS ONE BY ONE\n\n");
 for(x=0;x< n;x++)
 scanf("%d",&A[x]);
 printf("\n\nNON SORTED LIST\n\n");
 for(x=0;x< n;x++)
    printf("\n\%d",A[x]);
 insertion\_sort(A,n);
 printf("\n\nSORTED LIST\n\n");
 for(x=0;x< n;x++)
    printf("\n^{d}",A[x]);
```

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