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//CSE 11911058

//INSERTION SORT

#include<stdio.h>//header file

int main()

{

int i,j,n,arr[45],swap; //DECLARING VARIABLES

printf("enter no of elements you want to sort\n");

scanf("%d",&n);

printf("enter the elements\n");

for(i=0;i<n;i++) //LOOP FOR ASSIGNING NOS

{

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

}

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

{

j=i;

while(j>=0&&arr[j]>arr[j+1]) //SWAPPING IF REQUIRED

{

swap=arr[j];

arr[j]=arr[j+1];

arr[j+1]=swap;

j--;}

}

printf("required series is:\n");

for(i=0;i<n;i++) //PRINTING OF ELEMENTS

{ printf("%d\n",arr[i]); }

return 0;

}