#include<stdio.h>

void quicksort(int number[25],int first,int last){

int i, j, pivot, temp;

if(first<last){

pivot=first;

i=first;

j=last;

while(i<j){

while(number[i]<=number[pivot]&&i<last)

i++;

while(number[j]>number[pivot])

j--;

if(i<j){

temp=number[i];

number[i]=number[j];

number[j]=temp;

}

}

temp=number[pivot];

number[pivot]=number[j];

number[j]=temp;

quicksort(number,first,j-1);

quicksort(number,j+1,last);

}

}

int main(){

int i, n, number[25];

printf("How many elements are u going to enter?: ");

scanf("%d",&n);

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

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

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

quicksort(number,0,n-1);

printf("Order of Sorted elements: ");

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

printf(" %d",number[i]);

return 0;

}

O/P:

How many elements are u going to enter?: 5

Enter 5 elements: 56

23

89

12

59

Order of Sorted elements: 12 23 56 59 89