#include<stdio.h>

void quicksort(int a[10],int first,int last)

{

int pivot,j,i,t;

if(first<last)

{

pivot=first;

i=first;

j=last;

while(i<j)

{

while(a[i] <= a[pivot])

i++;

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

j--;

if(i<j)

{

t=a[i];

a[i]=a[j];

a[j]=t;

}

}

t=a[pivot];

a[pivot]=a[j];

a[j]=t;

quicksort(a,first,j-1);

quicksort(a,j+1,last);

}

}

int main ()

{

int a[20],n,i;

printf("Enter size of the array: ");

scanf("%d",&n);

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

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

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

quicksort(a,0,n-1);

printf("Sorted elements: ");

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

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

return 0;

}

