#include <iostream>

using namespace std;

void merge(int a[],int s,int e)

{

int mid=(s+e)/2;

int i=s;

int j=mid+1;

int k=s;

int temp[100];

while(i<=mid && j<=e)

{

if(a[i]<a[j])

{

temp[k]=a[i];

k++;

i++;

}

else

{

temp[k]=a[j];

k++;

j++;

}

}

//When elements in j array are finished and elements in i array are left

while(i<=mid)

{

temp[k]=a[i];

k++;

i++;

}

//When elements in i array are finished and elements in j array are left

while(j<=e)

{

temp[k]=a[j];

k++;

j++;

}

//We need to copy all elements to original array

for(int i=s;i<=e;i++)

{

a[i]=temp[i];

}

}

void mergesort(int a[],int s,int e)

{

//Base case 1 or 0 element

if(s>=e)

return;

//Follow three steps:

//Divide

int mid=(s+e)/2;

//Recursively sort the arrays, s,mid and mid+1,e

mergesort(a,s,mid);

mergesort(a,mid+1,e);

//Merge the two parts

merge(a,s,e);

}

int main()

{

int n,i;

cin>>n;

int a[n];

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

cin>>a[i];

mergesort(a,0,n-1);

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

cout<<a[i]<<" ";

}