

# Vector-Sort

You are given  $N$  integers.Sort the  $N$  integers and print the sorted order.  
Store the  $N$  integers in a vector.Vectors are sequence containers representing arrays that can change in size.

- *Declaration:*

```
vector<int>v; (creates an empty vector of integers)
```

- *Size:*

```
int size=v.size();
```

- *Pushing an integer into a vector:*

```
v.push_back(x); (where x is an integer.The size increases by 1 after this.)
```

- *Popping the last element from the vector:*

```
v.pop_back(); (After this the size decreases by 1)
```

- *Sorting a vector:*

```
sort(v.begin(),v.end()); (Will sort all the elements in the vector)
```

To know more about vectors, [Click Here](#)

## Input Format

The first line of the input contains  $N$  where  $N$  is the number of integers. The next line contains  $N$  integers.

### Constraints

$1 \leq N \leq 10^5$   
 $1 \leq V_i \leq 10^9$ , where  $V_i$  is the  $i^{th}$  integer in the vector.

## Output Format

Print the integers in the sorted order one by one in a single line followed by a space.

## Sample Input

```
5
1 6 10 8 4
```

Sample Output

1 4 6 8 10