



# Vector-Sort ☆

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## Problem

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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

$$1 \leq N \leq 10^5$$

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

### 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

C++



```
1  #include <algorithm>
2  #include <cmath>
3  #include <cstdio>
4  #include <iostream>
5  #include <vector>
6  using namespace std;
7
8  int main() {
9      vector<int> v;
10     int n, i, k;
11     cin >> n;
12     for (i = 0; i < n; i++) {
13         cin >> k;
14         v.push_back(k);
15     }
16
17     sort(v.begin(), v.end());
18     for (auto i = v.begin(); i != v.end(); i++)
19         cout << *i << " ";
20     cout << "\n";
21     return 0;
22 }
23
```

Line: 1 Col: 1

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