**Vector-Sort**

24.37 more points to get your gold badge!

Rank: **29203**|Points: **225.63/250**

CPP

**You have successfully solved Vector-Sort**

You are now 24.37 points away from the gold level for your c++ badge.

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You are given  integers.Sort the  integers and print the sorted order.  
Store the  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](http://www.cplusplus.com/reference/vector/vector/)

**Input Format**

The first line of the input contains  where  is the number of integers. The next line contains  integers.  
**Constraints**  
  
, where  is the  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

<https://www.hackerrank.com/challenges/vector-sort/problem>

#include <cmath>

#include <cstdio>

#include <vector>

#include <iostream>

#include <algorithm>

using namespace std;

int main() {

/\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/

int N;

scanf("%d", &N);

vector<int> v;

for(int i =0; i<N; i++) {

int elem;

scanf("%d", &elem);

v.push\_back(elem);

}

std::sort(v.begin(), v.end());

for(int i =0; i<v.size(); i++) {

cout << v[i] << " ";

}

cout << "\n";

return 0;

}