

Problem B

A Sorting Problem

Time limit: 1 second
Memory limit: 2048 megabytes

Problem Description

Given an array of n positive integers, sort the array in ascending order.

Input Format

The first line of the input contains an integer n denoting the length of the array. The second line of the input contains n space-separated integers a_1, a_2, \dots, a_n denoting the array to be sorted.

Output Format

Output the sorted array in one line. Place exactly one space between the elements.

Technical Specification

- $1 \leq n \leq 10^5$
- $1 \leq a_i \leq 10^9$ for $i = 1, 2, \dots, n$

Sample Input 1

```
5
2 4 5 1 3
```

Sample Output 1

```
1 2 3 4 5
```

Hint

You can use the ‘std::sort’ function in the C++ Standard Library. You can also try to implement sorting algorithms like Merge Sort, Heap Sort or (randomized) Quick Sort on your own.