## **Number Sorting Problem**

**Time Limit:** 2.00 s **Memory Limit:** 256 MB

#### **Problem Statement**

You are given a sequence of integers. Your task is to sort these numbers in ascending order and output them.

## **Input**

- The first line contains an integer n (1 <= n <=  $10^5$ ), the number of integers.
- The second line contains n integers a\_1, a\_2, ..., a\_n (1 <= a\_i <=  $10^9$ ).

# Output

• Output the numbers in ascending order, separated by spaces.

## **Constraints**

- 1 <= n <= 10^5
- 1 <= a\_i <= 10^9

# **Example**

#### Input

8 1 2 4 2 1 3 78 54

### Output

1 1 2 2 3 4 54 78