



Big Sorting



Problem

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Consider an array of numeric strings, *unsorted*, where each string is a positive number with anywhere from **1** to **10^6** digits. Sort the array's elements in *non-decreasing* (i.e., ascending) order of their real-world integer values and print each element of the sorted array on a new line.

Input Format

The first line contains an integer, ***n***, denoting the number of strings in *unsorted*.
Each of the ***n*** subsequent lines contains a string of integers describing an element of the array.

Constraints

- $1 \leq n \leq 2 \times 10^5$
- Each string is guaranteed to represent a positive integer without leading zeros.
- The total number of digits across all strings in *unsorted* is between **1** and **10^6** (inclusive).

Output Format

Print each element of the sorted array on a new line.

Sample Input 0

```
6
31415926535897932384626433832795
1
3
10
3
5
```

Sample Output 0

```
1
3
3
5
10
31415926535897932384626433832795
```

Explanation 0

The initial array of strings is *unsorted* = [31415926535897932384626433832795, 1, 3, 10, 3, 5]. When we order each string by the real-world integer value it represents, we get:

$$1 \leq 3 \leq 3 \leq 5 \leq 10 \leq 31415926535897932384626433832795$$



We then print each value on a new line, from smallest to largest.

Submissions: [23775](#)

Max Score: 20

Difficulty: Easy

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```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int n = in.nextInt();
12         String[] unsorted = new String[n];
13         for(int unsorted_i=0; unsorted_i < n; unsorted_i++){
14             unsorted[unsorted_i] = in.next();
15         }
16         // your code goes here
17     }
18 }
19
```

Line: 1 Col: 1

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