Big Sorting ■



Problem Submissions Leaderboard Discussions Editorial

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

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

Output Format

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

Sample Input 0

6 31415926535897932384626433832795 1 3 10 3

Sample Output 0

1 3 3 5 10 31415926535897932384626433832795

Explanation 0

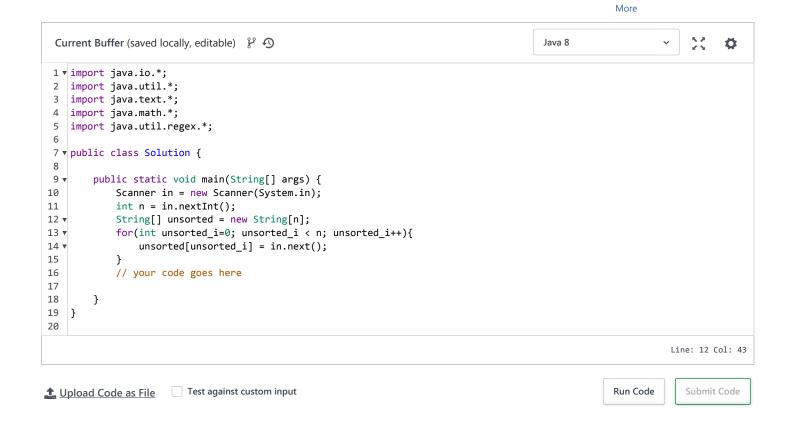
The initial array of strings is unsorted = [31415926535897932384626433832795, 1, 3, 10, 3, 5]. When we order each string by the real-world integer value it represents, we get:

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

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

Submissions:<u>24466</u>
Max Score:20
Difficulty: Easy

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