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# Big Sorting ☆

**Problem**

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Consider an array of numeric strings where each string is a positive number with anywhere from **1** to  **$10^6$**  digits. Sort the array's elements in *non-decreasing*, or ascending order of their 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 an integer string *unsorted[i]*.

**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.

Author

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Difficulty

Easy

Max Score

20

Submitted By

37979

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Current Buffer (saved locally, editable)   Java 7  

```
1 import java.io.*;
2 import java.math.*;
3 import java.text.*;
4 import java.util.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     /*
10      * Complete the bigSorting function below.
11      */
12     static String[] bigSorting(String[] unsorted) {
13         /*
14          * Write your code here.
15          */
16     }
17
18     private static final Scanner scanner = new Scanner(System.in);
19
20     public static void main(String[] args) throws IOException {
21         BufferedWriter bufferedWriter = new BufferedWriter(new
22             FileWriter(System.getenv("OUTPUT_PATH")));
23
24         int n = scanner.nextInt();
25         scanner.skip("(\\r\\n|\\n\\r\\u2028\\u2029\\u0085)*");
26
27         String[] unsorted = new String[n];
28
29         for (int unsortedItr = 0; unsortedItr < n; unsortedItr++) {
30             String unsortedItem = scanner.nextLine();
31             scanner.skip("(\\r\\n|\\n\\r\\u2028\\u2029\\u0085)*");
32             unsorted[unsortedItr] = unsortedItem;
33         }
34
35         String[] result = bigSorting(unsorted);
36
37         for (int resultItr = 0; resultItr < result.length; resultItr++)
38         {
39             bufferedWriter.write(result[resultItr]);
40
41             if (resultItr != result.length - 1) {
42                 bufferedWriter.write("\\n");
43             }
44         }
45
46         bufferedWriter.newLine();
47         bufferedWriter.close();
48
49         scanner.close();
50     }
51 }
52
```

Line: 1 Col: 1

☒ Upload Code as File ☐ Test against custom input

Run Code

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