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Big Sorting

Problem

Submissions

Leaderboard

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 return the sorted array.

Example

unsorted = ['1', '200', '150', '3']

Return the array ['1', '3', '150', '200'].

Function Description

Complete the *bigSorting* function in the editor below.

bigSorting has the following parameter(s):

- *string unsorted[n]*: an unsorted array of integers as strings

Returns

- *string[n]*: the array sorted in numerical order

Input Format

The first line contains an integer, *n*, 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.
- There will be no leading zeros.
- The total number of digits across all strings in *unsorted* is between **1** and **10^6** (inclusive).

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.

Sample Input 1

```
8
1
2
100
12303479849857341718340192371
3084193741082937
3084193741082938
111
200
```

Sample Output 1

```
1
2
100
111
200
3084193741082937
3084193741082938
12303479849857341718340192371
```

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Contest ends in a day

Submissions: 54

Max Score: 50

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Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'bigSorting' function below.
11 #
12 # The function is expected to return a STRING_ARRAY.
13 # The function accepts STRING_ARRAY unsorted as parameter.
14 #
15
16 def bigSorting(unsorted):
17     return sorted(unsorted, key=lambda x: (len(x), x))
18
19 if __name__ == '__main__':
```

```
20 fptr = open(os.environ['OUTPUT_PATH'], 'w')
21
22 n = int(input().strip())
23
24 unsorted = []
25
26 for _ in range(n):
27     unsorted_item = input()
28     unsorted.append(unsorted_item)
29
30 result = bigSorting(unsorted)
31
32 fptr.write('\n'.join(result))
33 fptr.write('\n')
34
35 fptr.close()
36
```

Line: 1 Col: 1

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