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Easy

Sorting

Strings

problem-solving

95/95

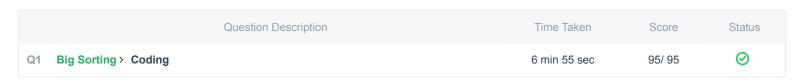
95/95

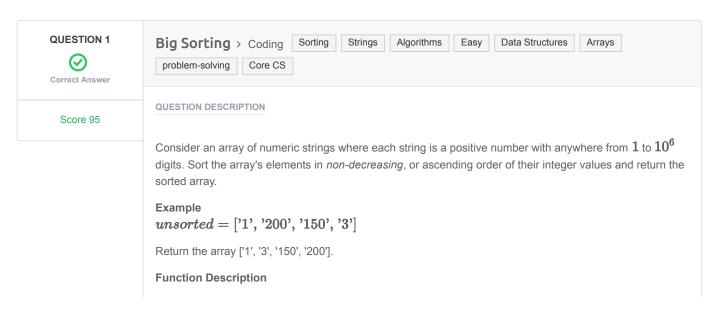
95/95

scored in Mock Test in 7 min 5 100% sec on 6 Jul 2022 20:50:37 IST 95/95

Recruiter/Team Comments:

No Comments.





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

- $1 \le n \le 2 \times 10^5$
- 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
```

CANDIDATE ANSWER

Language used: Java 8

```
1 class Result {
 4
        * Complete the 'bigSorting' function below.
        * The function is expected to return a STRING ARRAY.
       * The function accepts STRING ARRAY unsorted as parameter.
8
9
       public static List<String> bigSorting(List<String> unsorted) {
           Map<Integer,List<String>> arrangePerLength = new TreeMap<>();
           for(String s: unsorted) {
              int len = s.length();
               if(!arrangePerLength.containsKey(len)){
                   arrangePerLength.put(len, new ArrayList<>());
               }
               arrangePerLength.get(len).add(s);
          List<String> result = new ArrayList<>();
           for(List<String> toSort : arrangePerLength.values()){
               Collections.sort(toSort);
               result.addAll(toSort);
          return result;
32 }
34
```

| TESTCASE | DIFFICULTY | TYPE | STATUS | SCORE | TIME TAKEN | MEMORY USED |
|------------|------------|-------------|---------|-------|------------|-------------|
| Testcase 1 | Easy | Sample case | Success | 0 | 0.1485 sec | 29.9 KB |
| Testcase 2 | Medium | Hidden case | Success | 10 | 0.1997 sec | 30 KB |
| Testcase 3 | Medium | Hidden case | Success | 10 | 0.2664 sec | 40.6 KB |
| Testcase 4 | Hard | Hidden case | Success | 15 | 0.2404 sec | 47.3 KB |
| Testcase 5 | Hard | Hidden case | Success | 15 | 0.3376 sec | 46.3 KB |
| Testcase 6 | Hard | Hidden case | Success | 15 | 0.2493 sec | 45.1 KB |
| Testcase 7 | Hard | Hidden case | Success | 15 | 0.3723 sec | 48 KB |
| Testcase 8 | Hard | Hidden case | Success | 15 | 0.5228 sec | 69.9 KB |
| Testcase 9 | Easy | Sample case | Success | 0 | 0.1935 sec | 30.1 KB |

No Comments

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