◄   KLU Y19 23 - CSIP - PHASE - 1 (/course/view/6111c91c03d2360e28dd7cb9)
/ [KLU-23-P1] Sorting Built-In Library (/classes/612d8de54b6fd60e29141870)
/ Sort Based On Digit Count

Sort Based On Digit Count

(author: Sandeep)

[Score: **20**]

PROBLEM STATEMENT	Given array of integers, Sort the numbers based on count of their digits. All numbers in array are guaranteed to have different digit counts. Numbers with lesser digit count should be kept first, higher digit count should be kept later.
INPUT FORMAT	Line 1: Integer T - Number of Test Cases. Each Test Case has following lines: Test Case Line 1: Integer N - Number of elements in array. Test Case Line 2: N space separated integers.
OUTPUT FORMAT	For one test case, print the sorted array (space-separated) on single line. Each test case output should be on a separate line.
CONSTRAINTS	1 <= T <= 100 1 <= N <= 10^5 0 <= A[i] <= 10^9
COMPLEXITIES	*Expected Time Complexity:* **O(NlogN)** *Allowed Space Complexity:* **O(1)**

SAMPLE INPUT	SAMPLE OUTPUT	EXPLANATION
2 5 12 345 2 5678 13000 6 21345 1 789709 8907 23 456	2 12 345 5678 13000 1 23 456 8907 21345 789709	

Test Cases Results

TestCaseID	Result	Expected	Your Output	Exception
1	true	2 12 345 5678 13000 1 23 456 8907 21345 789709	2 12 345 5678 13000 1 23 456 8907 21345 789709	

Example Input - Output

Code

Language:

PYTHON3 ⟳

```
1  def sortOnDigits(arr):
2      a.sort()
3
```

☑ **Test against custom input**

Run Code   Submit Code

```
2
5
12 345 2 5678 13000
6
21345 1 789709 8907 23 456
```

Discussion

0 Comments Sort by   Oldest

Add a comment...

Facebook Comments Plugin

Like   Share   11K people like this. Sign Up to see what your friends like.

Contact Us (/contact-us)

© Being Zero 2014-2018