BACK

Digit Difference Sort





DESCRIPTION

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CODEWRITING

SCORE: 300/300

Given an array of integers, sort its elements by the *difference* of their largest and smallest digits. In the case of a tie, that with the larger index in the array should come first.

Example

```
For a = [152, 23, 7, 887, 243], the output should be digitDifferenceSort(a) = [7, 887, 23, 243, 152].
```

Here are the differences of all the numbers:

```
152: difference = 5 - 1 = 4;
23: difference = 3 - 2 = 1;
7: difference = 7 - 7 = 0;
887: difference = 8 - 7 = 1;
243: difference = 4 - 2 = 2.
```

23 and 887 have the same difference, but 887 goes after 23 in a, so in the sorted array it comes first.

Input/Output

- [execution time limit] 4 seconds (js)
- [input] array.integer a

An array of integers.

```
Guaranteed constraints:
0 ≤ sequence.length ≤ 10<sup>4</sup>,
1 ≤ sequence[i] ≤ 10<sup>5</sup>.
```

• [output] array.integer

Array a sorted as described above.

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
    console.log("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```

