

Another Sorting

Time limit: 1.0s **Memory limit:** 64M

Sorting seems to be a big topic right now, so magicalsoup decides to create his own kind of sorting. Since he can't really code, he asks you to help him code his sorting algorithm. His sorting algorithm goes like this:

He sorts the numbers by its unit digit in ascending order. For example, if the numbers were `12, 11, 13`, the numbers would be `11, 12, 13`.

If there are ties, break them by putting the bigger number first.

For example, given the array `59 107 99 27 13 47 51`.

The array will be first sorted by their units digit, so the array becomes `51 13 107 27 47 59 99`.

Then the array will be sorted in descending order, so the array now becomes `51 13 107 47 27 99 59`.

Given an integer N and N integers, please help magicalsoup sort the array with his algorithm!

Constraints

Subtask	Marks	N
1	30%	$1 \leq N \leq 10^3$
2	70%	$1 \leq N \leq 10^5$

Input Specification

First line: an integer N .

The next line will contain N space separated integers, a_i ($1 \leq a_i \leq 10^6$), representing the elements of the array.

Output Specification

Output the sorted array on one line, with a space separating each of the elements.

Sample Input

```
6
33 33 88 88 83 38
```

Sample Output

```
83 33 33 88 88 38
```

Sample Explanation

The array will first be sorted by its units digit, so it becomes `33 33 83 88 88 38`.

Then it's sorted by its value in descending order, so now it becomes `83 33 33 88 88 38`.