**Twisted Numbers**

Humans have finally reached a different planet with an entirely different species on it! When we were telling them the cosmic address of Earth, we realized that the order of their digits were completely wrong!

Earth - 0 1 2 3 4 5 6 7 8 9

Alien - 0 9 8 7 6 5 4 3 2 1

Do you think you can help us create a sorter which incorporates this system of numbers?

**Input:** The first line of input contains **N**, the number of numbers on the next line. The next line contains **N** separated numbers. The given numbers are the Earth numbers.

**Output:** The sorted list using the reversed digits in ascending order.

**Example Input:**

9

11 22 1 2 3 4 5 10 0

**Example Output:**

0 5 4 3 2 1 22 10 11

**Explanation:** Since the digits have been reversed the output can be represented like this:

0, 5, 6, 7, 8, 9, 88, 90, 99