

Java's `BigDecimal` class can handle arbitrary-precision signed decimal numbers. Let's test your knowledge of them!

Given an array,  $\mathbf{s}$ , of  $n$  real number strings, sort them in descending order — but wait, there's more! Each number must be printed in the exact same format as it was read from stdin, meaning that `.1` is printed as `.1`, and `0.1` is printed as `0.1`. If two numbers represent numerically equivalent values (e.g., `.1`  $\equiv$  `0.1`), then they must be listed in the same order as they were received as input).

Complete the code in the unlocked section of the editor below. You must rearrange array  $\mathbf{s}$ 's elements according to the instructions above.

### Input Format

The first line consists of a single integer,  $n$ , denoting the number of integer strings. Each line  $i$  of the  $n$  subsequent lines contains a real number denoting the value of  $\mathbf{s}_i$ .

### Constraints

- $1 \leq n \leq 200$
- Each  $\mathbf{s}_i$  has *at most* 300 digits.

### Output Format

Locked stub code in the editor will print the contents of array  $\mathbf{s}$  to stdout. You are only responsible for reordering the array's elements.

### Sample Input

```
9
-100
50
0
56.6
90
0.12
.12
02.34
000.000
```

### Sample Output

```
90
56.6
50
02.34
0.12
.12
0
000.000
-100
```