

# Miracle Sort

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How to sort.

## Input Specification

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On the first line, an integer  $N$  ( $1 \leq N \leq 1\,000\,000$ ). On the following  $N$  lines, there will be a sequence of  $N$  numbers, with each number between  $-2^{63}$  and  $2^{63} - 1$ .

## Output Specification

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Using a line break as a separator between numbers, print out the sequence from the input, in sorted order.