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Maximum and second maximum

You will be given a list of integers. Write a program find the greatest number and the second maximum number.

INPUT

The first line contains one integer N, the number of integers in the list. ($2 \leq N \leq 10$)

The second line contains the list of N integers. The integers are in $[-2147483648, 2147483647]$ (the range of 32-bit integer). The numbers may not be distinct.
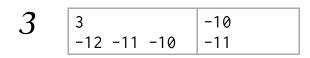
OUTPUT

On the first line output the maximum number. On the second line output the second maximum number.

SAMPLE TESTS

	Input	Output
1	4 1 4 3 2	4 3
2	5 4 8 8 -3 5	8 8
3	3 -12 -11 -10	-10 -11