Max Number

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	64 megabytes

Given a number N and an array A of N numbers. Print the **maximum** value in this array.

Note: Solve this problem using recursion.

Input

First line contains a number N $(1 \leq N \leq 10^3)$ number of elements.

Second line contains N numbers $(-10^9 \leq A_i \leq 10^9)$.

Output

Print the **maximum** value in this array.

Example

standard input	standard output
5 1 -3 5 4 -6	5