## Four Numbers

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 64 megabytes |

This problem is simple. You are given an array of distinct numbers: $\left\{a_{1}, a_{2}, \ldots a_{n}\right\}$. Chose four distinct numbers $A, B, C$ and $D$ from it. Find the maximum possible value of the following -

$$
\frac{A+B}{C-D}
$$

## Input

First line contains an integer $N$, the number of elements in the array. Next line will contain $N$ integers: $a_{1}, a_{2}, \ldots, a_{n}$.

## Output

Print the maximum possible value of the given statement. Your answer will be considered correct it is within $10^{-5}$ of actual answer.

## Constraints

$4 \leq N \leq 1000$.
$1 \leq a_{i} \leq 10^{8}$ for all $1 \leq i \leq N$.
If $i \neq j$ then $a_{i} \neq a_{j}$.

## Scoring

Subtask 1 (points: 20)
$4 \leq N \leq 50$
Subtask 2 (points: 80)
No further restrictions

## Example

| Sample Input |  |  |  |  |  | Sample Output |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 10 | 2 | 5 | 5 | 7 | 8 | 9 | 10 | 19.00000 |  |
| 5 |  |  |  |  |  | 9.789473 |  |  |  |
| 22 | 100 | 42 | 3 | 86 |  |  |  |  |  |

## Explanation

First Sample: Taking $A=9, B=10, C=2, D=1$ gives the maximum value.
Second Sample: Taking $A=100, B=86, C=22, D=3$ gives the maximum value.

