### **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:  $\{a_1, a_2, \dots a_n\}$ . 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**

 $4 \le N \le 1000$ .

 $1 \le a_i \le 10^8$  for all  $1 \le i \le N$ .

If  $i \neq j$  then  $a_i \neq a_j$ .

## **Scoring**

Subtask 1 (points: 20)

 $4 \le N \le 50$ 

Subtask 2 (points: 80)

No further restrictions

# **Example**

Sample Input	Sample Output
10	19.00000
1 2 3 4 5 6 7 8 9 10	
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.