# Inconspicuous interval

**Winter Workshops, Day 4, Available memory 512 MB** *02.01.2020 - 08.01.2020*

You are given the array $A$ of length $N$ filled with non-zero integers. Let's define inconspicuousness factor of interval $[i, j]$ with the following formula:

$$In(i,j) = \frac{\sum_{k=i}^{j} A_k}{\max_{i \le k \le j} A_k} \tag{1}$$

Find the maximum $In(i, j)$ among all the possible subintervals of $A$ and print it as an irreducible fraction.

## Constraints

- $1 \le N \le 10^6$
- $-10^9 \le A_i \le 10^9$
- $A_i \neq 0$

## Input

$n$
$A_1\ A_2\ \ldots\ A_N$

## Output

In the first line of output, write down two integers, separated by `/`, which indicates the numerator and denominator of the resultant factor.

## Examples

| Input | Output |
|---|---|
| 2<br>5 4 | 9/5 |
| 3<br>3 -4 10 | 1/1 |
| 3<br>999 1 1 | 2/1 |
| 6<br>2 2 2 -1 -2 -3 | 6/1 |

## Scoring

| Subtask | Constraints | Points |
|---|---|---|
| 1 | $n \leq 5000$ | 10 |
| 2 | $n \leq 10^5$ | 30 |
| 3 | each element in array is positive | 20 |
| 4 | no additional constrains | 40 |