

# Customs

Matheus, Bruno and Ricardo are the boasting for the research department at Indústria de Obras Intermináveis ( IOI ) and they constantly traveled together for another countries to research different methods, equipments and primal materials for amazing works. Furthermore, they operate in the informal import market products electronics, bringing equipments and electronics for your friend and coworkers.

Before leaving they make a list of  $N$  products who they have to buy, each one of them with a price  $P_i$  DE\$ ( Dinheiro Estrangeiro). They have to pay some customs duty if anyone of them exceeds the maximum amount of  $Q$  that each one can brings.

As them always travel together, they note that it's more cheap for them, if the products are organized in a way that's can be possible to reduct the maximum amount of imposts who they have to pay. Given the prices of  $N$  products,  $Q$  and the maximum tax  $A$ , you have to say the minimum price of imposts that they have to pay.

## Input

The input is only a testcase. The first line include an integer  $N$  ( $1 \leq N \leq 100$ ), that represents the number of products bought.

The second line include two integers,  $Q$  and  $A$  ( $1 \leq Q \leq 500$ ,  $1 \leq A \leq 200$ ), that represents the maximum amount of import, and the tax of importation in percent.

The next  $N$  lines includes each one, an integer  $P_i$  ( $1 \leq P_i \leq Q$ ), that represents the price of the  $i$ -th product.

## Output

You have to write in your output a single line contains the minimum possible value of impost that Matheus, Bruno and Ricardo have to pay..

## Example

**Input:**

```
4
10 1
10
9
8
7
```

**Output:**

0.05

**Input:**

6

9 20

9

6

3

3

3

3

**Output:**

0.00