W. Hussien and Arrays 2

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Hussien has an array of N integers, A_1, A_2,..., A_N.

for every pair (A[i] , A[j]) for all $(1 \leq i, j \leq N)$ such that A[i]<= A[j].

he will calculate this equation (j-i).

after he calculates all equations he needs to find what is the maximum value he can get.

can you help him to solve this problem?

Input
First line contains one integer N $(1 \leq N \leq 10^6)$

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

Output
Print maximum value he can get.

Example

input	Copy
4 3 5 4 2	
output	**Copy**
2	

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- Contest #3.1
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- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

Sheet #10 (General Hard)

Finished

Practice

→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.