

## D. Maximum Value

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given a sequence  $a$  consisting of  $n$  integers. Find the maximum possible value of (integer remainder of  $a_i$  divided by  $a_j$ ), where  $1 \leq i, j \leq n$  and  $a_i \geq a_j$ .

### Input

The first line contains integer  $n$  — the length of the sequence ( $1 \leq n \leq 2 \cdot 10^5$ ).

The second line contains  $n$  space-separated integers  $a_i$  ( $1 \leq a_i \leq 10^6$ ).

### Output

Print the answer to the problem.

### Examples

input
3 3 4 5
output
2