Testing Intelligence

Aditya and Abhishek recently joined SPIT. Since they both are new to each other and Aditya has decided to only be friends with the students who are intelligent as him.So to test Abhishek he has given him a cipher which contains an integer sequence of Z1,Z2,Z3,.....Zn. The key to decipher the sequence is the maximum of Zp%Zq, taken over all valid p and q. Abhishek is now in a panic state and he needs your help to become Aditya's friend

Input Format

- The first line of each test case contains a single integer n.
- The second line contains N space-separated integers Z1,Z2,…,Zn.

Constraints

- $2 \leq n \leq 10^5$
- $1 \leq Zp \leq 10^9$ for each valid p

Output Format

For each test case, print a single line containing one integer — the answer to the puzzle.

Sample Input 0

```
5
2 2 4 7 6
```

Sample Output 0

```
6
```