## Finding Majority

Given an array A of N integers in wich the most frequent item appear most than $\mathrm{n} / 2$ times, calculate this value.

## Input

The first line contain $N(1<=N<=3000000)$ then $N$ 32-bit integers per line.

## Output

The output consists of one number: the most frequent item on $A$.

## Example

Input:
5
2
3
2
2
4
Output:
2

