AlphaBit Coding Challenge

Problem 3: Zeros

Statement

Yasmine hates math, whenever it comes to calculations, she just loses it !

She finds a real trouble when it comes to zeros ! When it comes to addition, she can make her way out, but when it comes to multiplications she gets easily overwhelmed !

As you might have guessed, your job is to help Yasmine to count the trailing zeros (the zeros on the right side of the number).

Given a set of N integers, can you find the number of trailing zeros of the multiplication X_i integers.

Note: N can be a large number.

Input

1st line: N number of the integers.

The next N lines: Each contains a single integer X_i

Output

Number of trailing zeros

Example

Input	Output
2 12 25	2