#### 2380 - BinaryCheckSum

### Description

Binarychecksum is the counting of 1's in the binary representation of any decimal integer. For example, the binary representation of the number 4 is 100, and its Binarychecksum is 1. Your task is to calculate the sum of the Binarychecksum of each number, in a given list of integer numbers.

## Input specification

The first line contain a single integer number  $n (1 \le n \le 1000)$ , and next n = 1000 integer number  $k (0 \le k \le 10^9)$ , representing the i-th number in the list.

### Output specification

The first and only line of output must contain the requested sum.

#### Sample input

3

4 10

15

Sample output

Output limit (mb)

7

# Hint(s)

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Added by jmargilagos
Addition date 2013-05-09
Time limit (ms) 30000
Test limit (ms) 3000
Memory limit (kb) 130000

64