## Add To Even (Part A)

You are given a list of n positive integers a_1, a_2, ..., a_n
Output the number of unique pairs of integers in the list such that that they add to an even number NOTE: Two pairs are unique to each other if and only if at least one of the indices of the numbers of the first pair is different to the second pair.

## Input

Your first line will contain a single integer n
Your second line will contain n space-separated integers representing a_1, a_2, ..., a_n
$2 \leq n \leq 100,000$

## Output

Your first and only line of output should contain a single integer representing the number of unique pairs of integers with the even sum.

## Example

Input 1
3
111
Output 1
3
Input 2
6
212314294
Output 2
7

