# 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

 $2 \le n \le 100,000$ 

### **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 1 1 1 Output 1

3

Input 2

2 12 3 14 29 4

Output 2

7