Pairwise Sum and Divide



You are given an array of numbers. Let us denote the array with A[]. Your task is very simple. You need to find the value returned by the function fun(A).

```
fun(A)
  sum = 0
  for i = 1 to A.length
    for j = i+1 to A.length
      sum = sum + Floor((A[i]+A[j])/(A[i]*A[j]))
  return sum
```

In short, this function takes all distinct pairs of indexes from the array and adds the value $\begin{bmatrix} A[i]+A[j] \\ A[i]\times A[j] \end{bmatrix}$ to the sum. Your task is to find the sum.

Note: $\left\lfloor \frac{A}{B} \right\rfloor$ is the integer division function.

Input Format

The first line contains T, the number of test cases to follow.

Each test case contains two lines: the first line contains N, the size of the array, and the second line contains N integers separated by spaces.

Output Format

The output should contain exactly T lines where the $i^{
m th}$ line contains the answer for the $i^{
m th}$ test case.

Constraints

```
1 \le T \le 15
1 \le N \le 2 	imes 10^5
1 \le 	ext{Sum of } N 	ext{ over all test cases } \le 2 	imes 10^5
1 \le A[i] \le 10^9
```

Sample Input

```
2
3
4 2 3
3
1 4 1
```

Sample Output

```
0
4
```

Explanation

First Test Case:
$$\left\lfloor \frac{6}{8} \right\rfloor + \left\lfloor \frac{7}{12} \right\rfloor + \left\lfloor \frac{5}{6} \right\rfloor = 0$$

Second Test Case: $\left\lfloor \frac{5}{4} \right\rfloor + \left\lfloor \frac{2}{1} \right\rfloor + \left\lfloor \frac{5}{4} \right\rfloor = 4$