

Count Pairs Odd Xor

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Given an array `Arr[]` of `N` integers. Write a program to find out number of pairs in array whose XOR is odd.

Input:

First line of input contains a single integer `T` which denotes the number of test cases. Then `T` test cases follows. First line of each test case contains a single integer `N` which denotes the size of array. Second line of each test case contains `N` space separated integers which denotes the elements of the array.

Output:

For each test case print the number of pairs in array whose XOR is odd.

Constraints:

$1 \leq T \leq 100$

$1 \leq N \leq 1000$

$1 \leq \text{Arr}[i] \leq 1000$

Example:

Input:

2

3

1 2 3

4

1 2 3 4

Output:

2

4