28/05/2023, 22:12 Problem - D - Codeforces





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i Reminder: in case of any technical issues, you can use the lightweight website <u>m1.codeforces.com</u>, <u>m2.codeforces.com</u>, <u>m3.codeforces.com</u>.

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D. The BOSS Can Count Pairs

time limit per test: 4 seconds memory limit per test: 512 megabytes input: standard input output: standard output

You are given two arrays a and b, both of length n.

Your task is to count the number of pairs of integers (i, j) such that $1 \le i < j \le n$ and $a_i \cdot a_j = b_i + b_j$.

Input

Each test contains multiple test cases. The first line of input contains a single integer t ($1 \le t \le 10^4$) — the number of test cases. The description of test cases follows.

The first line of each test case contains a single integer n ($2 \le n \le 2 \cdot 10^5$) — the length of the arrays.

The second line of each test case contains n integers a_1, a_2, \ldots, a_n $(1 \le a_i \le n)$ — the elements of array a.

The third line of each test case contains n integers b_1, b_2, \ldots, b_n $(1 \le b_i \le n)$ — the elements of array b.

It is guaranteed that the sum of *n* across all test cases does not exceed $2 \cdot 10^5$.

Output

For each test case, output the number of good pairs.

Example



Note

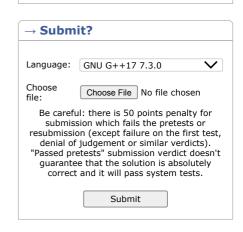
In the first sample, there are 2 good pairs:

- (1, 2),
- (1, 3).

In the second sample, there are 7 good pairs:

- (1, 2),
- (1, 5),
- (2, 8),

Codeforces Round 875 (Div. 2)	
Contest is running	
00:22:32	
Contestant	



→ Score table	
	Score
<u>Problem A</u>	356
<u>Problem B</u>	534
<u>Problem C</u>	890
<u>Problem D</u>	1246
<u>Problem E</u>	1780
<u>Problem F</u>	2136
Successful hack	100
Unsuccessful hack	-50
Unsuccessful submission	-50
Resubmission	-50

^{*} If you solve problem on 01:30 from the first attempt

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- (3, 4),
- (4, 7),
- (5, 6),
- (5, 7).

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