

RELATIVE PRIMES

Problem Statement:

You are given a set numbers . Output the number of pairs of relatively prime numbers found in the set.

Input :

The first line consists of an integer t , the number of test cases. ($1 \leq t \leq 100$)

For each test case,

The first line contains the size of the set, N $1 < N \leq 100$

The next line contains N space separated integers each of which is in the range $[1, 100]$.

Output :

For each test case, output the number of pairs of relatively prime numbers found in the set.

Sample Input:

2

5

1 2 3 4 5

2

1 1

Sample output:

9

1