

03 Hr **20** Min
05 Sec**Guidelines**

Coding Area

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Coding Area

A**B****C****D****E****F****ONLINE EDITOR (C)**

Finding Sum

+ Problem Description

You are given a set of N positive integers and another integer P , where P is a small prime. You need to write a program to count the number of subsets of size (cardinality) 3, the sum of whose elements is divisible by P . Since the number K of such sets can be huge, output K modulo 10007 1009 (the remainder when K is divided by 1009)

+ Constraints

 $N \leq 500$ $P < 50$ All integers ≤ 1000

+ Input Format

First line two comma separated integers N, P The next line contains N comma separated integers

+ Output

One integer giving the number of subsets the sum of whose elements is divisible by P . Give result modulo 1009

+

+ Explanation

Example 1

Input

4,5

5,10,15,20

Output

4

Explanation

Every non empty subset of the given numbers has sum of its elements a multiple of 5. Since there are 4 subsets of size 3, the output is 4.

Example 2

Input

5,5

3,7,12,13,15

Output

4

Explanation

There are 4 subsets of size 3 with sum a multiple of 5: {3, 7, 15}, {12, 13, 15}, {7, 13, 15}, {3, 12, 15}, Hence the output is 4.

Upload Solution [Question : C]

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