

Contest Duration: 2025-11-22(Sat) 23:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251122T2100&p1=248>) - 2025-11-23(Sun) 00:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251122T2240&p1=248>) (local time) (100 minutes)

[Back to Home \(/home\)](#)

[Top \(/contests/abc433\)](#)

[Tasks \(/contests/abc433/tasks\)](#)

[Clarifications \(/contests/abc433/clarifications\)](#) [Results ▾](#)

[Standings \(/contests/abc433/standings\)](#)

[Virtual Standings \(/contests/abc433/standings/virtual\)](#) [Editorial \(/contests/abc433/editorial\)](#)

[Discuss \(<https://codeforces.com/blog/entry/148596>\)](#)

## D - 183183

[Editorial \(/contests/abc433/tasks/abc433\\_d/editorial\)](#)

/

Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 400 points

### Problem Statement

For positive integers  $x, y$ , define  $f(x, y)$  as follows:

- The value obtained by interpreting  $x, y$  in decimal notation without leading zeros as strings, concatenating them in this order to obtain a string  $S$ , and then interpreting  $S$  as an integer in decimal notation.

For example,  $f(12, 3) = 123$  and  $f(100, 40) = 10040$ .

You are given positive integers  $N, M$  and a sequence of  $N$  positive integers  $A = (A_1, A_2, \dots, A_N)$ .

Find the number of pairs of integers  $(i, j)$  that satisfy all of the following conditions.

- $1 \leq i, j \leq N$
- $f(A_i, A_j)$  is a multiple of  $M$ .

### Constraints

- $1 \leq N \leq 2 \times 10^5$
- $1 \leq M \leq 10^9$
- $1 \leq A_i \leq 10^9$
- All input values are integers.

2026-01-02 (Fri)  
05:33:35 +11:00

# Input

The input is given from Standard Input in the following format:

```
N M  
A1 A2 ... AN
```

# Output

Output the number of pairs of integers  $(i, j)$  that satisfy all the conditions.

---

## Sample Input 1

Copy

```
2 11  
2 42
```

Copy

## Sample Output 1

Copy

```
2
```

Copy

- When  $(i, j) = (1, 1)$ :  $f(A_1, A_1) = 22$  is a multiple of 11.
- When  $(i, j) = (1, 2)$ :  $f(A_1, A_2) = 242$  is a multiple of 11.
- When  $(i, j) = (2, 1)$ :  $f(A_2, A_1) = 422$  is not a multiple of 11.
- When  $(i, j) = (2, 2)$ :  $f(A_2, A_2) = 4242$  is not a multiple of 11.

From the above, the pairs of integers that satisfy all the conditions are  $(i, j) = (1, 1), (1, 2)$ , which is two pairs. Thus, output 2.

---

## Sample Input 2

Copy

```
4 7  
2 8 16 183
```

Copy

## Sample Output 2

Copy

```
4
```

Copy

---

## Sample Input 3

Copy

2026-01-02 (Fri)  
05:33:35 +11:00

5 5

1000000000 1000000000 1000000000 1000000000 1000000000

Copy

## Sample Output 3

Copy

25

Copy

## Sample Input 4

Copy

12 13

80 68 862370 82217 8 56 5 168 672624 6 286057 11864

Copy

## Sample Output 4

Copy

10

Copy

#telegram)

url=https%3A%2F%2Fatcoder.jp%2Fcontests%2Fabc433%2Ftasks%2Fabc433\_d%3Flang%3Den&title=D%20-

[Rule \(/contests/abc433/rules\)](#) [Glossary \(/contests/abc433/glossary\)](#)

[Terms of service \(/tos\)](#) [Privacy Policy \(/privacy\)](#) [Information Protection Policy \(/personal\)](#) [Company \(/company\)](#)  
[FAQ \(/faq\)](#) [Contact \(/contact\)](#)

Copyright Since 2012 ©AtCoder Inc. (<http://atcoder.co.jp>) All rights reserved.