

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 \(/home\)](/home)

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

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

[❓ Clarifications \(/contests/abc433/clarifications\)](/contests/abc433/clarifications)

[📊 Results ▼](#)

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

[🏆 Virtual Standings \(/contests/abc433/standings/virtual\)](/contests/abc433/standings/virtual)

[📖 Editorial \(/contests/abc433/editorial\)](/contests/abc433/editorial)

[💬 Discuss \(https://codeforces.com/blog/entry/148596\)](https://codeforces.com/blog/entry/148596)



D - 183183

[Editorial \(/contests/abc433/tasks/abc433_d/editorial\)](/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 \(/contests/abc433/rules\)](/contests/abc433/rules) [Glossary \(/contests/abc433/glossary\)](/contests/abc433/glossary)

[Terms of service \(/tos\)](/tos) [Privacy Policy \(/privacy\)](/privacy) [Information Protection Policy \(/personal\)](/personal) [Company \(/company\)](/company)

[FAQ \(/faq\)](/faq) [Contact \(/contact\)](/contact)

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

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