ACM ICPC Team

by dheeraj

| Problem | Submissions | Leaderboard | Discussions | Editorial 🔒 | Topics |

You are given a list of N people who are attending ACM-ICPC World Finals. Each of them are either well versed in a topic or they are not. Find out the maximum number of topics a 2-person team can know. And also find out how many teams can know that maximum number of topics.

Note Suppose *a*, *b*, and *c* are three different people, then (*a,b*) and (*b,c*) are counted as two different teams.

Input Format

The first line contains two integers, N and M, separated by a single space, where N represents the number of people, and M represents the number of topics. N lines follow.
Each line contains a binary string of length M. If the ith line's j^{th} character is 1, then the ith person knows the jth topic; otherwise, he doesn't know the topic.

Constraints
$2 \leq N \leq 500$
$1 \leq M \leq 500$

Output Format

On the first line, print the maximum number of topics a 2-person team can know.
On the second line, print the number of 2-person teams that can know the maximum number of topics.

Sample Input

```
4 5
10101
11100
11010
00101
```

Sample Output

```
5
2
```

Explanation

(*1, 3*) and (*3, 4*) know all the *5* topics. So the maximal topics a 2-person team knows is *5*, and only *2* teams can achieve this.

in 🐦 f

Related Topics

Finding Max Min

Bitwise OR

Submissions: 23441
Max Score: 25

Difficulty: Easy

Rate This Challenge:

☆ ☆ ☆ ☆ ☆

More

Python 3 ⌄

```python
#!/bin/python3

import sys


n,m = input().strip().split(' ')
n,m = [int(n),int(m)]
topic = []
topic_i = 0
for topic_i in range(n):
    topic_t = str(input().strip())
    topic.append(topic_t)

```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature