15/11/2017 HackerRank







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 i^{th} line's j^{th} character is 1, then the i^{th} person knows the j^{th} topic; otherwise, he doesn't know the topic.

Constraints

2 < N < 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.

Submissions:32831
Max Score:25
Difficulty: Easy
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Finding Max Min Bitwise OR More Java 7 Current Buffer (saved locally, editable) & 🗗 1 ▼ import java.io.*; import java.util.*; import java.text.*; import java.math.*; import java.util.regex.*; 7 ▼ public class Solution { 8 9 ▼ public static void main(String[] args) { 10 Scanner in = new Scanner(System.in); int n = in.nextInt(); 11 int m = in.nextInt(); 12 13 ▼ String topic[] = new String[n]; for(int topic_i=0; topic_i < n; topic_i++){</pre> 14 ▼ 15 ▼ topic[topic_i] = in.next(); 16 17 } 18 } 19 Line: 1 Col: 1 **1** Upload Code as File Test against custom input Run Code Submit Code

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