

## A. Marks

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Vasya, or Mr. Vasily Petrov is a dean of a department in a local university. After the winter exams he got his hands on a group's gradebook.

Overall the group has  $n$  students. They received marks for  $m$  subjects. Each student got a mark from 1 to 9 (inclusive) for each subject.

Let's consider a student the *best at some subject*, if there is no student who got a higher mark for this subject. Let's consider a student *successful*, if there exists a subject he is the *best at*.

Your task is to find the number of *successful* students in the group.

### Input

The first input line contains two integers  $n$  and  $m$  ( $1 \leq n, m \leq 100$ ) — the number of students and the number of subjects, correspondingly. Next  $n$  lines each containing  $m$  characters describe the gradebook. Each character in the gradebook is a number from 1 to 9. Note that the marks in a rows are not sepatated by spaces.

### Output

Print the single number — the number of *successful* students in the given group.

### Examples

input
3 3 223 232 112
output
2
input
3 5 91728 11828 11111
output
3

### Note

In the first sample test the student number 1 is the best at subjects 1 and 3, student 2 is the best at subjects 1 and 2, but student 3 isn't the best at any subject.

In the second sample test each student is the best at at least one subject.

### Codeforces Round #108 (Div. 2)

Finished

#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

#### → Problem tags

implementation

No tag edit access

#### → Contest materials

- Announcement 
- Tutorial 