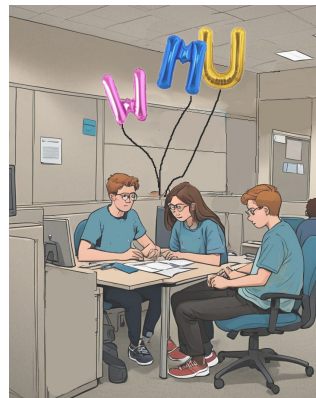


Letter Balloons

Problem ID: letterballoons

You are organizing a programming contest, and have decided that the first team to solve each problem will get a balloon in the shape of the problem's letter. The team members for Wossa Motta University are hoping to be first to solve problems M, U, and W so that they can fly their university's initials above their programming station. In fact, a lot of teams have the same idea: try to be first-solvers of problems that spell out their school's abbreviation. It might be possible for both Wossa Motta U. and the College of Southern North Dakota at Hoople (CSNDH) to both achieve this goal, but neither will be able to do so if Sezz University manages to solve problems S and U before they do (we are assuming there will never be a tie for the first solution to any problem). On the other hand, Sezz U. can't achieve it if either WMU or CSNDH solves S or U first. [Next two sentences should be included if we want to make this problem easier, omitted if not; if omitted, sample input 1 could be modified as well:] Poor Tiki Tachy Tech is out of luck no matter what, since it can get at most a single balloon for problem T. And Xerxes Tech is also out of luck because there are only twenty-three problems in the contest, labeled A through W.



NightCafe

You've been wondering—what is the maximum number of teams that can proudly display their school's initials with “first-solver” balloons at the end of the contest?

Input

The first line of input contains two integers p , the number of problems in the contest, $1 \leq p \leq 26$, and t , the number of teams, $1 \leq t \leq 20$. [These bounds are tentative.] Problems are labeled with the first p letters of the alphabet. Each of the following t lines contains a nonempty string of at most 80 uppercase letters consisting of the school's initials. [There is no need for these to be distinct, since two schools could have the same initials, but do we need to say anything just to head off possible clarifications?]

Output

Print a single integer consisting of the maximum number of teams that can be first solvers of all the problems that form the initials of their school name.

Sample Input 1

```
23 5
WMU
CSNDH
SU
TTT
XT
```

Sample Output 1

```
2
```

Sample Input 2

```
6 5
ABC
BDE
ABE
BF
CEF
```

Sample Output 2

```
1
```