A. Good Number

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Let's call a number k-good if it contains all digits not exceeding k ($0, \ldots, k$). You've got a number k and an array a containing n numbers. Find out how many k-good numbers are in a (count each number every time it occurs in array a).

Input

The first line contains integers n and k ($1 \le n \le 100$, $0 \le k \le 9$). The i-th of the following n lines contains integer a_i without leading zeroes ($1 \le a_i \le 10^9$).

Output

Print a single integer — the number of k-good numbers in a.

Examples

input
10 6 1234560 1234560 1234560 1234560 1234560 1234560 1234560 1234560 1234560 1234560
output
10

input
2 1 1 10
output
1

Codeforces Round #213 (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