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 $(0, ..., k)$. 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