# Officer Operation

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

The N officers of the Programming Police are assembling a special task force to break the Cyber Criminal's cryptography, which requires a certain set of skills. These skills are denoted by upper and lower case letters (a-z and A-Z), giving a total of 52 possible skills. The mission is denoted by a string consisting of some subset of these characters. Each person's skills are similarly described by such a string. Please find how many groups of size K can do the mission.

#### Input

Line 1: Two space-separated integers N and K

Line 2: A string representing the mission

Line 3..N+2: A string representing the skills

### Output

Line 1: How many groups satisfy the conditions

### Example

standard input	standard output
6 2	10
CbA	
EA	
DbCA	
Ab	
CE	
ADC	
Cb	

## Note

 $2 \le N \le 100$ 

 $1 \leq K \leq 4$  Each person has at least one skill. The skills are not sorted.