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Un-Mistakable

Problem Code: MSTC01

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You are given a list of **N** words consisting of lower case letters of the English alphabet. Find the longest word that contains $\mbox{less than or equal to } \mathbf{K}$ distinct letters.

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Input

The first line contains two integers ${\bf N}$ and ${\bf K}$.

Each of the next ${\bf N}$ lines contains one of the words.

Output

Print the length of the longest word containing less than or equal to ${\bf K}$ distinct letters, or -1 if there is no solution.

Constraints

- 1 ≤ N ≤ 100
- 1 ≤ K ≤ 26
- Any word consists of at most 100 characters.

Example

Input: 3 2 abba abccbaabc baaab Output:

Input:		
5 5		
kayak		
analysis		
home		
queue		
dequeue		
Output:		
7		

Input:			
4 3			
house			
brick			
fence			
window			
Output:			
-1			

Explanation

Example case 1. baaab is the longest word which contains at most 2 distinct characters

Example case 2. dequeue is the longest word which contains 4 distinct characters which is less than 5.

Example case 3. All the words have at least 4 distinct characters.

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Date Added: 24-03-2018

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, PYPY, CS2, PAS fpc, PAS gpc,

RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, kotlin, PERL6, TEXT, SCM chicken,

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<u>CodeChef (http://www.codechef.com)</u> - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

$\underline{Practice\ Section\ (https://www.codechef.com/problems/easy)} - A\ Place\ to\ hone\ your\ 'Computer\ Programming\ Skills'$

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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