Home (/) » Compete (/contests/) » MSTC March FaceOff (/MMFO2018) » Un-Mistakable

Un-Mistakable   Problem Code: MSTC01   Submit (/MMFO2018/submit/MSTC01)

Tweet   Like   Share   One person likes this. Be the first of your friends.

My Submissions   All Submissions
(/MMFO2018/status/MSTC01,jackyone1)(/MMFO2018/status/MS

Successful Submissions   **+**

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

Input

The first line contains two integers **N** and **K**.

Each of the next **N** lines contains one of the words.

Output

Print the length of the longest word containing **less than or equal to 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:
5
```

```
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.

Author:	4★ sanurocks5 (/users/sanurocks5)
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, CLOJ, COB, FS

Submit (/MMFO2018/submit/MSTC01)

Comments ▶

Directi (http://directi.com)
Intelligent People. Uncommon Ideas.
The time now is: 09:59:13 AM
Your IP: 46.223.37.14

CodeChef (http://www.codechef.com) - 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**.

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.

Compete (https://www.codechef.com/problems/easy) - Monthly Programming Contests and Cook-offs
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.

Programming Tools   **Practice Problems**

Online IDE (https://www.codechef.com/ide)   Easy (https://www.codechef.com/problems/easy)

Initiatives