5/4/2020 Problem - 463D - Codeforces





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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

D. Gargari and Permutations

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input

output: standard output

Gargari got bored to play with the bishops and now, after solving the problem about them, he is trying to do math homework. In a math book he have found k permutations. Each of them consists of numbers 1, 2, ..., n in some order. Now he should find the length of the longest common subsequence of these permutations. Can you help Gargari?

You can read about longest common subsequence there:

https://en.wikipedia.org/wiki/Longest common subsequence problem

Input

The first line contains two integers n and k ($1 \le n \le 1000$; $2 \le k \le 5$). Each of the next k lines contains integers 1, 2, ..., n in some order — description of the current permutation.

Output

Print the length of the longest common subsequence.

Examples



Codeforces Round #264 (Div. 2)

Finished

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Start virtual contest

→ Problem tags



→ Contest materials

- Announcement
- Tutorial (en)

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Note

The answer for the first test sample is subsequence [1, 2, 3].

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