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## G. Most Common Suffix

time limit per test: 1 second memory limit per test: 512 megabytes

You are given n strings, and q queries. For each query i, your task is to find the most common suffix of length  $x_i$ , you need to print how common it is.

The suffix i (or the  $i^{th}$  suffix) of a string is a special case of substring that goes from the  $i^{th}$  character of the string up to the last character of the string. For example, the  $4^{th}$  suffix of "development" is "lopment", the  $7^{th}$  suffix of "development" is "ment" (0-based indexing).

### Input

The first line contains an integer T ( $1 \le T \le 75$ ), where T is the number of test cases.

The first line of each test case contains two integers n and q ( $1 \le n, q \le 10^4$ ), where n is the number of strings, and q is the number of queries.

Then n lines follow, each line contains a string s, giving the strings. All strings are non-empty consisting of lowercase English letters.

Then q lines follow, each line contains an integer x ( $1 \le x \le m$ ), giving the queries. Where m equals the length of the longest string among the given n strings.

The total length of strings in each test case does not exceed  $10^5$ .

### Output

For each query, print a single line containing the answer.

# Example

input	Сору
1	
1 5 4	
abccba	
abddba	
xa	
abdcba	
aneverknow	
1	
2	
4	
3	
output	Сору
4	
3	
1	
2	

## Note

As input/output can reach huge size it is recommended to use fast input/output methods: for example, prefer to use scanf/printf instead of cin/cout in C++, prefer to use BufferedReader/PrintWriter instead of Scanner/System.out in Java.

# 2017 JUST Programming Contest 3.0 Finished Practice

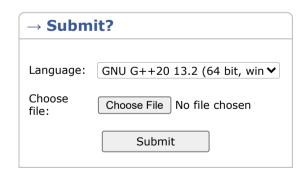


# → Virtual participation

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Start virtual contest





→ Last submissions		
Submission	Time	Verdict
300921772	Jan/14/2025 08:28	Accepted
300920566	Jan/14/2025 08:15	Accepted
300920080	Jan/14/2025 08:10	Accepted
300919698	Jan/14/2025 08:06	Wrong answer on test 2
300919416	Jan/14/2025 08:03	Wrong answer on test 2
300919217	Jan/14/2025 08:00	Wrong answer on test 2
300918882	Jan/14/2025 07:56	Memory limit exceeded on test 2