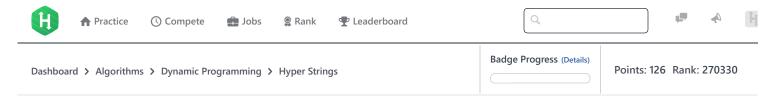
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Hyper Strings **■**



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String \boldsymbol{A} is called a *Super String* if and only if:

- A contains only letters a, b, c, d, e, f, g, h, i, j
- ullet For any i and j, A[i] has lower ascii code than A[j], where 0 < i < j < length(A)

Given a set of Super Strings H, a *Hyper String* is a string that can be constructed by concatenation of some Super Strings of the set H. We can use each Super String as many times as we want.

Given set $m{H}$, you have to compute the number of Hyper Strings with length no greater than $m{M}$.

Input Format

The first line of input contains two integers, N (the number of Super Strings in H) and M. The next N lines describe the Super Strings in set H.

Constraints

 ${\it N}$ and ${\it M}$ are not greater than ${\it 100}$.

Output Format

Output an integer which is the number of possible Hyper Strings that can be derived. Since it may not fit in **32** bit integer, print the output module **1000000007**. (i.e. answer = answer % **1000000007**)

Sample Input

2 3

ab

Sample Output

7

Explanation

In the example all the Hyper Strings are: "" (empty string), "a", "ab", "aa", "aba", and "aab".

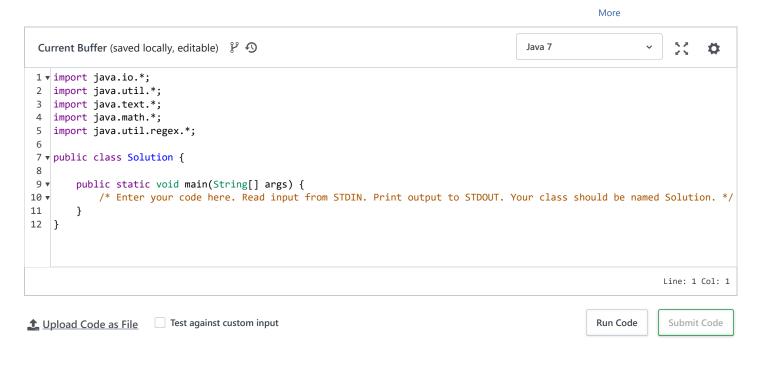
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Submissions: 1177

Max Score:90 Difficulty: Advanced

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