ADAlab Online Judge

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- Ranbk101109107 ▼

About ∨

lower case characters. You are going to perform q operations. Each operation is in the following format:

- 1. E i j : Check if s_i and s_j are identical?
- 2. C i j: Update s_i to be the concatenation of s_i and s_j . For example, if $s_i=$ "star" and $s_j=$ "burst", then the concatenation of s_i and s_j will be "starburst".

Input

The first line contains integer n and q.

The following n lines are the strings, with the i-th line containing s_i .

The following q lines are the queries described in the problem description.

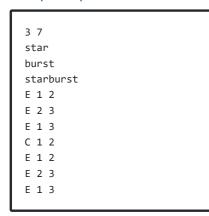
Constraints

- $1 \le n, q \le 100$
- Length sum of all strings ≤ 5000 (i.e. $\sum_{i=1}^{n} |s_i| \leq 5000$)
- ullet Length of each string after concatenation ≤ 5000

Output

For each operation $\ \ \mathbf{E} \ \mathbf{i} \ \mathbf{j}$, please output 'Y' if s_i and s_j are identical, 'N' otherwise.

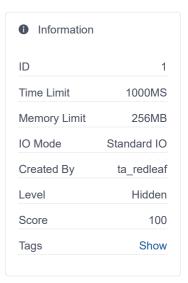
Sample Input 1 🖹

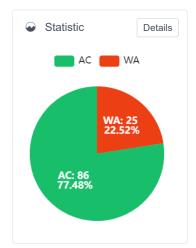


Sample Output 1



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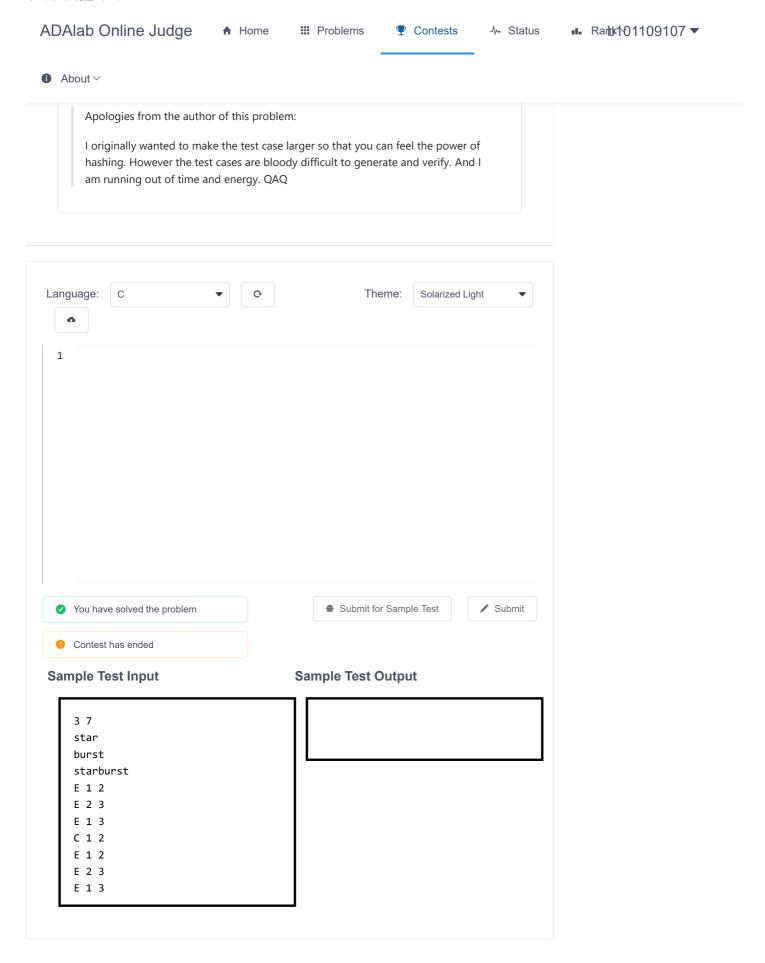
Hint

Details on scoring rubrics (input constraint) in this problem:

Note: You can see test case ID in the submission page of this problem (e.g. adalab.cs.nthu.edu.tw/status/xxx...x)

For test case ID 1~(10% of total score):

• Identical to sample input



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