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ONLINE EDITOR (B)

String Rotation

+ Problem Description

Rotate a given String in specified direction by specified magnitude.

After each rotation make a note of first character of the rotated String, After all rotation are performed the accumulated first character as noted previously will form another string, say **FIRSTCHARSTRING**.

Check If **FIRSTCHARSTRING** is an Anagram of any substring of the Original string.

If yes print "YES" otherwise "NO". Input

The first line contains the original string s. The second line contains a single integer q. The ith of the next q lines contains character d[i] denoting direction and integer r[i] denoting the magnitude.

+ Constraints

1 <= Length of original string <= 30

1 <= q <= 10

+

+ Output

YES or NO

+

+ Explanation

Example 1

Input

carrace

3

L 2

R 2

L 3

Output

NO

Explanation

After applying all the rotations the **FIRSTCHARSTRING** string will be "rcr" which is not anagram of any sub string of original string "carrace".

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☐ I, **nirupam bhandari** confirm that the answer submitted is my own.

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