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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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