## 150da00c3966b84c013afd99d43001ac

Input file: standard input
Output file: standard output

Time limit: 2 seconds Memory limit: 256 megabytes

MajorKaks, during his regular practice sessions, came across the following problem which he wasn't able to solve. Kindly help him solve this problem.

Given a string S, there will be Q queries.

Each query is described by an integer k, followed by a set of k ranges  $[l_1, r_1]$ ,  $[l_2, r_2]$ ,  $[l_3, r_3]$  ...  $[l_k, r_k]$  such that  $\forall i \in [1, k] 1 \le l_i \le r_i \le |S|$ .

For every query, construct a string T as follows:

$$T = S_{l_1...r_1} + S_{l_2...r_2} + ... + S_{l_k...r_k}$$

where  $S_{l_i...r_i}$  represents the substring of string S starting at index  $l_i$  and ending at index  $r_i$ . The + operator represents concatenation of two strings. Hence, the constructed string T is a concatenation of k substrings of the given string S where the i'th substring is defined by the i'th range  $[l_i, r_i]$ .

If the constructed string T is a palindrome, then print YES else print NO.

Every query should be processed independently and answer to a query is either YES or NO based on whether the constructed string T is a palindrome or not.

## Input

First line contains N and Q, the length of string and number of queries. Second line contains the string. Next, every query is described by line contains k, which denotes the number of strings which are going to be concatenated, which is followed by k lines each containing 2 integers  $l_i$  and  $r_i$ .

## Output

Output YES or NO, the answer to the query.

## Example

| standard input | standard output |
|----------------|-----------------|
| 10 5           | YES             |
| shivammavi     | NO              |
| 1              | YES             |
| 1 1            | NO              |
| 1              | YES             |
| 4 7            |                 |
| 2              |                 |
| 5 6            |                 |
| 5 5            |                 |
| 5              |                 |
| 1 2            |                 |
| 2 3            |                 |
| 3 4            |                 |
| 4 5            |                 |
| 5 6            |                 |
| 2              |                 |
| 3 4            |                 |
| 9 10           |                 |

| ote   |  |  |
|---|--|--|
| $N \le 10^5$ . $Q \le 10^5$ . $K \le 10^4$ . Sum of K over all queries $\le 2*10^5$ . |  |  |
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