

时间限制：C/C++/Rust/Pascal 2秒，其他语言4秒
空间限制：C/C++/Rust/Pascal 512 M，其他语言1024 M
64bit IO Format: %lld

题目描述

Given a string S of length n , you need to answer q queries.

For each query, a string T and an integer a ($1 \leq a \leq n - |T| + 1$) are given, and you need to find the number of intervals $[u, v]$ ($1 \leq u \leq v \leq |T|$) that $S_{a+x-1} = T_x$ holds for every integer $x \in [u, v]$, which are called symmetry intervals. Note that $|T|$ is the length of T .

输入描述:

The first line contains two integers n ($1 \leq n \leq 10^5$) and q ($1 \leq q \leq 10^5$), indicating the length of the given string S and the number of queries.

The second line contains the given string S of length n .

The next q lines each contain a string T ($1 \leq |T| \leq n$) and an integer a ($1 \leq a \leq n - |T| + 1$), indicating a query.

It is guaranteed that the sum of $|T|$ does not exceed 10^6 and that all input strings only contain lowercase English letters.

输出描述:

For each query, output one line containing one integer, denoting the number of symmetry intervals.

示例1

输入 复制

```
10 3
helloworld
follow 1
echo 2
nowgold 4
```

C++ (clang++18)

1

ACM模
请通过
入输出
出描述