## Problem J. Border Queries

Input file:
Output file:
Time limit:
Memory limit:
standard input
standard output
2 seconds
512 megabytes

Given a string $S$ of length $n$ consisting of lowercase English letters. A partition of $S$ into three non-empty substrings $s_{1}, s_{2}, s_{3}$ is considered good if and only if $s_{1}$ is the border of $s_{1}+s_{2}$ and $s_{3}$ is the border of $s_{2}+s_{3}$. We say a string $s$ good if and only if $s$ is a substring of $S$ and there exists a good partition of $S$ into $s_{1}, s_{2}, s_{3}$ such that $s_{2}=s$.

Define the value of a string as the number of its good substrings. Two substrings are considered different if and only if the start position is different or the end position is different.
Given a string $T$ of length $m$ consisting of lowercase English letters and $q$ queries. In each query, you are given two integers $l, r$. You need to calculate the value of $T[l \cdots r]$.

## Input

Each test contains multiple test cases. The first line contains an integer $T(1 \leq T \leq 60)$ denoting the number of test cases.
For each test case, the first line contains three integers $n, m, q\left(3 \leq n \leq 10^{6}, 1 \leq m, q \leq 10^{6}\right)$.
The second line contains a string $S$ of length $n$.
The third line contains a string $T$ of length $m$.
The next $q$ lines each contains two integers $l_{i}$ and $r_{i}$, denoting a query ( $1 \leq l_{i} \leq r_{i} \leq m$ ).
It is guaranteed that $\sum n, \sum m, \sum q$ over all test cases does not exceed $10^{6}$.

## Output

For each query, output one line with an integer denoting the answer.
Please do not output trailing spaces.

## Example

| standard input | standard output |
| :---: | :---: |
| 1 | 0 |
| 772 | 2 |
| abacaba |  |
| cabacab |  |
| 14 |  |
| 37 |  |

