# Problem J
# Not a Classic String Problem

**Time Limit: 1 Second**
**Memory Limit: 512 megabytes**

There is a classic string problem: You are given two strings $A$ and $B$, and your task is to find the number of appearances of string $A$ in string $B$.

Dr. Hung does not want the problem to be that easy, so he gives you two strings $S$, $T$, and $q$ queries. Each query has two pairs of indices $(i, j)$ and $(u, v)$. For each query, Dr. Hung asks you to find the number of appearances of string $X = S_i S_{i+1} \dots S_j$ in string $Y = T_u T_{u+1} \dots T_v$.

## Input

The first line contains string $S$ $(1 \le |S| \le 2 \times 10^5)$.

The second line contains string $T$ $(1 \le |T| \le 2 \times 10^5)$.

The third line contains $q$ $(1 \le q \le 5 \times 10^5)$.

In the next $q$ lines, each line contains four integers $i, j$ and $u, v$.

## Output

The output has $q$ lines, each line contains a single integer indicating the number of appearances.

| Sample Input | Sample Output |
|---|---|
| abb<br>abababbb<br>5<br>1 2 1 7<br>2 3 2 9<br>3 3 4 7<br>1 2 2 4<br>1 1 1 9 | 3<br>1<br>2<br>1<br>4 |