Problem E

String Equivalenc

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

In programming languages and string theory, one of the interesting concepts is the equivalence of words. Two words are said to be equivalent if we can rearrange the characters in one word to obtain the other. For example, the words "abba" and "aabb" are equivalent, while "abba" and "aaba" are not. This problem requires you to check the equivalence between substrings of a given string.

Problem Description: Given a string S consisting of n lowercase letters from the English alphabet, you need to determine if two substrings of S are equivalent. Specifically:

- Input String: A string S with a length not exceeding 5×10^4.
- Number of Checks: You will receive a positive integer T, representing the number of pairs of substrings to check (with $T \leq 5\times10^4$).
- Substrings: Each pair of substrings will be specified by four integers a, b, c, d, where:
    - a and b are the starting and ending positions of the first substring in S.
    - c and d are the starting and ending positions of the second substring in S.
- Note: The starting and ending indices are 1-based (i.e., starting from 1).

Input Data:

- The first line contains the string S.
- The second line contains a positive integer T.
- In the next T lines, each line contains four integers a, b, c, d.

Output Data:

- T lines corresponding to a pair of substrings being checked. If the two substrings are equivalent, output 1; otherwise, output 0.

Example:

INPUT	OUTPUT
papamama 2 2 2 8 8 1 4 5 8	1 0