

Problem H

Symmetric

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

In our lives, we need to work carefully and rationally, unlike the heavenly officials in the work “Hòn Trưng Ba, Da Hàng Thệt.” It was the negligence of the heavenly officials that caused Trưng Ba - a kind-hearted gardener, genuine person, and skilled chess player - to die unjustly.

The well-intentioned correction of Đê Thích pushed him into an even more absurd predicament: "Đê Thích forced Trưng Ba to write a program to perform operations on a given string of length N . Đê Thích asked Cu Tị and Cái Gái - his two nephews and neighbors - to each choose Q numbers. Cu Tị's numbers are A_1, A_2, \dots, A_Q , and Cái Gái's numbers are B_1, B_2, \dots, B_Q . Trưng Ba is required to count whether the substring from L to R (defined by the pairs (A_i, B_i) for $i = 0, 1, \dots, Q$) is symmetric. Đê Thích also mentioned that a symmetric string reads the same forwards and backwards."

As we can see, Trưng Ba faces an absurd predicament: from being a gardener, he is forced by Đê Thích to become a coder, even though Trưng Ba knows nothing about programming. If this paradox cannot be resolved, Trưng Ba will not be able to come back to life and will die forever. However, since I am kind - hearted, I want Trưng Ba to be revived. To make that happen, I must insist that you - yes, you write the program for Trưng Ba.

Input Structure:

- Line 1: A string of length N ($N \leq 10^4$).
- Line 2: An integer Q ($Q \leq 10^6$).
- Line 3: Q numbers that Cu Tị selects ($0 < A_i \leq 10^5$).
- Line 4: Q numbers that Cái Gái selects ($0 < B_i \leq 10^5$).

Output Structure:

- A single integer representing the number of pairs selected by Cu Tị and Cái Gái that correspond to symmetric substrings.

Example:

INPUT	OUTPUT
AbccbA	2
3	
1 4 2	
6 2 5	