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LIVE EVENTS

ALL TRACKS > ALGORITHMS > STRING ALGORITHMS > MANACHAR'S ALGORITHM > PROBLEM



SOLVE
LATER

Last Forever

Attempted by: 151 / Accuracy: 48% / ★★★★★

Tag(s): Algorithms, Hard

PROBLEM

EDITORIAL

ANALYTICS

🏆 May-hem!

[Tracy](#), "The Mother", has left a note for Ted. This note may be stashed somewhere in all the documents that Ted has. He knows that the note would be at least **len** characters long. Also, it should be present in one location itself, i.e. it isn't divided into chunks.

You are given a string **s**, denoting all the stashed up documents that Ted has. The note is naturally just a substring of this. So, as to estimate the gravity of the task in front of him, you, as his son with great programming skills; have decided to help out your father, Ted.

You need to write a program that handles several queries, each query has 2 space separated integers **i** and **len**.

Your task is to compute **the number of palindromic substrings** that begin from the index **i** and have length at least **len**.

Input Format:

The input file contains string s on the first line. The next line contains an integer q , denoting the number of queries to be processed. Each query is as described above.

Output Format:

The output file should contain the result of each query, on a new line.

Constraints:

$0 < \text{The length of string} \leq 10^5$

$0 < \text{The number of queries} \leq 10^5$

$0 \leq i, \text{len} \leq 10^5$

Use 0-based indexing.

SAMPLE INPUT



ababa

3

0 3

2 4

1 3

SAMPLE OUTPUT



2

0

1

Time Limit:

1.0 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

Marking Scheme: Marks are awarded when all the testcases pass.

Allowed Languages: C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Visual Basic

CODE EDITOR

Enter your code or  [Upload your code](#) as file.

All changes saved

Visual Basic (mono vbnc 4.0.1)



1 Loading...

1:1

COMPILE & RUN

SUBMIT

💡 Press ctrl-space for autocomplete suggestions.

POWERED BY `code` `table`

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