

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP RAYAN 🛣

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

N. Ilya and Queries

time limit per test: 2 seconds memory limit per test: 256 megabytes

Ilya the Lion wants to help all his friends with passing exams. They need to solve the following problem to pass the IT exam.

You've got string $s = s_1 s_2 \dots s_n$ (n is the length of the string), consisting only of characters "." and "#" and m queries. Each query is described by a pair of integers l_i , r_i ($1 \le l_i \le r_i \le n$). The answer to the query l_i , r_i is the number of such integers i ($l_i \le i \le r_i$), that $s_i = s_{i+1}$.

Ilya the Lion wants to help his friends but is there anyone to help him? Help Ilya, solve the problem.

Input

The first line contains string s of length n ($2 \le n \le 10^5$). It is guaranteed that the given string only consists of characters "." and "#".

The next line contains integer m ($1 \le m \le 10^5$) — the number of queries. Each of the next m lines contains the description of the corresponding query. The i-th line contains integers l_i , r_i ($1 \le l_i < r_i \le n$).

Output

Print *m* integers — the answers to the queries in the order in which they are given in the input.

Examples

	input	Сору
3 4 2 3 1 6 2 6 output 1 1 5		
2 3 1 6 2 6 output 1 1 5		
1 6 2 6 Copy output 1 1 5 Copy	3 4	
output Copy 1 1 5	2 3	
output 1 1 5		
1 1 5	2 6	
1 1 5	output	Сору
	1	
	1	
4	5	
· ·	4	

input	Сору
####	
5	
1 3	
5 6	
1 5	
3 6	
3 4	
output	Сору
1	
1	
2	
2	
0	

→ Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

<u>ICPC Assiut University Training -</u> <u>Juniors Phase 1 Sheets-2022</u>

Public

Participant



→ Group Contests



- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 (Binary search , Two pointers)
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)
- Juniors Phase 1 Practice #1 (Prefix sum , Frequency Array)

<u>Juniors Phase 1 Practice #1 (</u> <u>Prefix sum , Frequency Array)</u>

Finished

Practice



→ Virtual participation

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Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



