



300 300 0

600 : 300

ROUND 3 (0:00:08)

300 0 0



DESCRIPTION

RULES

README

CODEWRITING

SCORE: 0/300

Typosquatting is a hack that relies on mistakes made by Internet users when inputting a website address into a web browser. So if a user is trying to go to `godaddy.com` but they accidentally type in `goddady.com` and someone else owns that domain, they could pretend to be GoDaddy and steal valuable user information.

Assume that GoDaddy is introducing a new feature that helps users protect their domains from typosquatting. It is known that a typosquatter's URL is usually similar to the victim's domain, but has some *typos* in it, where a *typo* means that letters in two adjacent positions have been swapped.

Given n , the number of additional domains the owner is willing to buy to protect their domain against typosquatting, GoDaddy calculates the maximum number k such that all of the domains with k or fewer *typos* can be bought (excluding the original domain itself).

Your task is to implement an algorithm that finds k given n and a domain name.

Example

- For $n = 7$ and `domain = "godaddy.com"`, the output should be `typosquatting(n, domain) = 1`.

For $k = 1$ the following *typos* can be made:

```
"ogdaddy.com"
"gdoadddy.com"
"goaddddy.com"
"godddady.com"
"godadyd.com"
"godaddy.ocm"
"godaddy.cmo"
```

7 domains to buy altogether. That's exactly the number of domains the user can afford, so the answer is 1.

- For $n = 9$ and `domain = "omg.tv"`, the output should be `typosquatting(n, domain) = 2`.
 - For $k = 1$, the following *typos* can be made:

```
"mog.tv"
```