
Are they all palindromes?**P21691_en**

You are given a string s and a length ℓ . Are all the substrings of length ℓ of s palindromes?

For instance, let $s = \text{"ababa"}$ and $\ell = 3$. Here, we have $s[0..2] = \text{"aba"}$, $s[1..3] = \text{"bab"}$ and $s[2..4] = \text{"aba"}$. Since the three substrings of s of length 3 are palindromes, in this case the answer is positive.

Input

Input consists of several cases, each with s and ℓ . Let n be the size of s . You can assume $1 \leq \ell \leq n \leq 10^5$, and that s is made up of only lowercase letters.

Output

For every case, print `"yes"` or `"no"`.

Sample input 1

```
ababa 3
abracadabra 5
zz 2
```

Sample output 1

```
yes
no
yes
```

Problem information

Author: Salvador Roura

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