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## Are they all palindromes?

**P21691\_en**

You are given a string  $s$  and a length  $\ell$ . Are all the substrings of length  $\ell$  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  $\ell$ . 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

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Generation: 2026-01-25T10:12:39.538Z

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