Lexicographically Least Substring

Time limit: 2.0s   **Memory limit:** 64M

Brute Force Practice 2

You have a string (indexed from 0) with no more than 50 lowercase characters. Find the lexicographically least substring with a length of at least K. A string S is said to be lexicographically smaller than a string T if $|S| < |T|$ and S is a prefix of T or $S_k < T_k$ and $S_i = T_i$ $(0 \leq i < k, 0 \leq k < \min(|S|, |T|))$. Here, $|X|$ denotes the length of the string.

Input Specification

The first line will have the string.

The second line will have K.

Output Specification

Print the lexicographically least substring of length at least K.

Sample Input

```
iloveprogramming
4
```

Sample Output

```
ammi
```