Alphabetically smallest word  
Tretzè Concurs de Programació de la UPC - Semifinal (2015-07-01)

Given a string $s$ made up of only lowercase letters, and a natural number $k$, remove any substring of length $k$ from $s$ so that the result is the lexicographically smallest possible word.

**Input**

Input consists of several cases, each with $s$ and $k$. Assume $1 \leq k < |s| \leq 10^4$.

**Output**

For every case, print the alphabetically smallest word that can be obtained after removing $k$ consecutive letters from $s$.

**Sample input**

```
abba 1
abba 2
abba 3
zxazyzy 3
```

**Sample output**

```
aba
aa
a
zxay
```

**Problem information**

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