
Alphabetically smallest word**P84412_en**

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 1

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

Sample output 1

```
aba
aa
a
zxay
```

Problem information

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