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## Alphabetically smallest word

P84412\_en

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

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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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