

# Merge the Tools!

In this task , you would be given a string  $S$  of length  $N$  . You have to divide this string into  $N/K$  equal parts thus each part contains exactly  $K$  elements.

Let us consider the string thus obtained in part  $i$  as  $T_i$  . For each string  $T_i$  thus obtained you have to make a modified string such that each character that occurs in  $T_i$  occurs exactly once in the modified string.

Suppose the first occurence of  $ch_1$  was before the first occurence of  $ch_2$  in  $T_i$  . Then  $ch_1$  should occur before  $ch_2$  in the modified string of  $T_i$  too. Output  $N/K$  lines each containing the modified string for the corresponding chunk  $T_i$ .

## Input Format

First line consists of the string  $S$ .

Second line consists of  $K$  denoting the length of each of the  $N/K$  parts.

## Output Format

$N/K$  lines denoting the modified string corresponding to each chunk of string.

## Constraints

$$1 \leq N \leq 10^4$$

$$1 \leq K \leq N$$

It is guaranteed that  $N$  is divisible by  $K$  .

Here  $N$  denotes the length of the string  $S$ .

## Sample Input

```
AABCAAADA
3
```

## Sample Output

```
AB
CA
AD
```

## Explanation

The string  $S$  is broken into equal parts of length  $3$  each making ( $" AAB "$ , $" CAA "$ , $" ADA "$ ). Each of these strings are modified according to the algorithm mentioned in the statement making ( $" AB "$ , $" CA "$ , $" AD "$ ) and then each of these modified strings is printed in seperate lines.