Consider the following:

- A string, $s$, of length $n$ where $s=c_{0} c_{1} \ldots c_{n-1}$.
- An integer, $k$, where $k$ is a factor of $n$.

We can split $s$ into $\frac{n}{k}$ substrings where each subtring, $t_{i}$, consists of a contiguous block of $k$ characters in $s$. Then, use each $t_{i}$ to create string $u_{i}$ such that:

- The characters in $u_{i}$ are a subsequence of the characters in $t_{i}$.
- Any repeat occurrence of a character is removed from the string such that each character in $u_{i}$ occurs exactly once. In other words, if the character at some index $j$ in $t_{i}$ occurs at a previous index $<j$ in $t_{i}$, then do not include the character in string $u_{i}$.

Given $s$ and $k$, print $\frac{n}{k}$ lines where each line $i$ denotes string $u_{i}$.

## Example

$s=$ 'AAABCADDE'
$k=3$
There are three substrings of length 3 to consider: 'AAA', 'BCA' and 'DDE'. The first substring is all 'A' characters, so $u_{1}=$ ' A '. The second substring has all distinct characters, so $u_{2}={ }^{\prime} \mathrm{BCA}$ '. The third substring has 2 different characters, so $u_{3}={ }^{\prime} \mathrm{DE}$ '. Note that a subsequence maintains the original order of characters encountered. The order of characters in each subsequence shown is important.

## Function Description

Complete the merge_the_tools function in the editor below.
merge_the_tools has the following parameters:

- string s: the string to analyze
- int $k$ : the size of substrings to analyze


## Prints

Print each subsequence on a new line. There will be $\frac{n}{k}$ of them. No return value is expected.

## Input Format

The first line contains a single string, $s$.
The second line contains an integer, $k$, the length of each substring.

## Constraints

- $1 \leq n \leq 10^{4}$, where $n$ is the length of $s$
- $1 \leq k \leq n$
- It is guaranteed that $n$ is a multiple of $k$.


## Sample Input

```
STDIN Function
*
AABCAAADA }s='AABCAAADA
3
k = 3
```


## Sample Output

AB
CA
AD

## Explanation

Split $s$ into $\frac{n}{k}=\frac{9}{3}=3$ equal parts of length $k=3$. Convert each $t_{i}$ to $u_{i}$ by removing any subsequent occurrences of non-distinct characters in $t_{i}$ :

1. $t_{0}=$ "AAB" $\rightarrow u_{0}=$ "AB"
2. $t_{1}=$ "CAA" $\rightarrow u_{1}=$ "CA"
3. $t_{2}=$ "ADA" $\rightarrow u_{2}=$ "AD"

Print each $u_{i}$ on a new line.

