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# Merge the Tools! ★

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Problem	Submissions	Leaderboard	Discussions	Editorial 🖰			
Consider the following:					Author	anu <u>j_</u> 95	
• A string, $s$ , of length $n$ where $s=c_0c_1\dots c_{n-1}$ .					Difficulty	Medium	
• An integer, $k$ , where $k$ is a factor of $n$ .					Max Score	40	
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					Submitted By	242755	
each $t_i$ to create string $u_i$ such that:					NEED HELP?	NEED HELP?	
• The characters	in $u_i$ are a subsequence	e of the characters in $oldsymbol{t_i}$ .			- View diesussiens		
$ullet$ Any repeat occurrence of a character is removed from the string such that each character in $u_i$ occurs exactly once. In					view discussions	尺 View discussions	
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					View editorial	☐ View editorial	
character in string $u_i$ .					View top submissions	$oldsymbol{\Phi}$ View top submissions	
Given $s$ and $k$ , print $rac{n}{k}$ lines where each line $i$ denotes string $u_i$ .					RATE THIS CHALLENGE	RATE THIS CHALLENGE	
xample					****	****	
s = AAABCAI	ODE'						
c=3					MORE DETAILS	MORE DETAILS	

There are three substrings of length 3 to consider: 'AAA', 'BCA' and 'DDE'. The first substring is all 'A' characters, so  $u_1 = {}^{1}A^{'}$ . The second substring has all distinct characters, so  $u_2 = {}^{1}BCA^{'}$ . The third substring has 2 different characters, so  $u_3 = {}^{1}DE^{'}$ . 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  $\frac{n}{L}$  of them. No return value is expected.

## **Input Format**

The first line contains a single string, 8.

The second line contains an integer, k, the length of each substring.

### Constraints

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

# Sample Input

```
STDIN Function
-----

AABCAAADA s = 'AABCAAADA'

k = 3
```

# Sample Output

AB

CA

- Suggest Edits
- f
  - Y



```
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=\text{"AAB"}\to u_0=\text{"AB"} 2.\ t_1=\text{"CAA"}\to u_1=\text{"CA"} 3.\ t_2=\text{"ADA"}\to u_2=\text{"AD"} Print each u_i on a new line.
```

```
Change Theme Language Python 3
                                                               (1)
def merge_the_tools(string_, k):
    # your code goes here
   List = [l for l in string_]
   if len(string_)%k == 0 :
        quotient = int(len(string )/k)
        # print('Quotient = ', quotient_)
        new list = []
       for i in range(quotient_):
            # str = ''.join(List[quotient_*i : quotient_*(i+1)])
           # str = ''.join(List[quotient_*i : quotient_*i+k])
            str = ''.join(List[k*i : k*i + k])
           new_list.append(str)
   new_sub_str_list = []
   # print('----')
    # print('new list is: ', new list)
    # print('----')
```