Assignment 1: Problem 2

Window Edge sorting

You are given an n digit number, and an integer k.
In each step, you can swap the i-th digit with the $(i+k)$-th digit, if $i+k \leq n$ for some i $(1 \leq i \leq n)$.

Find the the greatest number you can get after some number of (possibly zero) steps.

Input

The first line contains the integer n $(1 \leq n \leq 10^5)$ - the number of digits of number and k $(1 \leq k \leq n)$.
The second line contains an n-digit number A.

Output

Print the greatest number that can be made in one line separated by spaces

Sample Input

```
5 2
21345
```

Sample Output

```
54312
```

Explanation

The digits 2, 3, 5 can be swapped any number of times.
Also, 1 and 4 can be interchanged any number of times.

Limits

Time: 1 second

Memory: 256 MB