### STRING PROBLEM

## **Problem**

Alex has a string S of length N consisting of lowercase alphabets. He wants to find lexicographically smallest string S of length S that can be formed using the following operation.

In one operation, he can select any one character among the at most first **K** characters of string **S**, remove it from string **S** and append it to string **X**. He can apply this operation as many times as he wants.

Help Alex find the string **X**.

## **Input format**

- The first line consists of a string of length N
- The second line consists of an integer **K**.

## **Output format**

• Print the lexicographically minimum string that can be formed using the above operation.

#### **Constraints**

- 1≤**◊**≤105
- 1≤**Q**≤**Q**

#### **Sample Input**

hackerearth

3

#### **Sample Output**

aceheakrhrt
Time Limit: 1
Memory Limit: 256
Source Limit:

# **Explanation**

First you can select 'a' from **''hac**kerearth". Now the string X becomes "a" and string S becomes "hckerearth".

Now after applying the operation again, the string X becomes "ac" and the string S becomes "hkerearth".

Similarly after applying the operation n times, the string X becomes "aceheakrhrt".