

## A. Alphabetic Removals

time limit per test: 2 seconds  
memory limit per test: 256 megabytes

You are given a string  $s$  consisting of  $n$  lowercase Latin letters. Polycarp wants to remove exactly  $k$  characters ( $k \leq n$ ) from the string  $s$ . Polycarp uses the following algorithm  $k$  times:

- if there is at least one letter 'a', remove the leftmost occurrence and stop the algorithm, otherwise go to next item;
- if there is at least one letter 'b', remove the leftmost occurrence and stop the algorithm, otherwise go to next item;
- ...
- remove the leftmost occurrence of the letter 'z' and stop the algorithm.

This algorithm removes a single letter from the string. Polycarp performs this algorithm exactly  $k$  times, thus removing exactly  $k$  characters.

Help Polycarp find the resulting string.

### Input

The first line of input contains two integers  $n$  and  $k$  ( $1 \leq k \leq n \leq 4 \cdot 10^5$ ) — the length of the string and the number of letters Polycarp will remove.

The second line contains the string  $s$  consisting of  $n$  lowercase Latin letters.

### Output

Print the string that will be obtained from  $s$  after Polycarp removes exactly  $k$  letters using the above algorithm  $k$  times.

If the resulting string is empty, print nothing. It is allowed to print nothing or an empty line (line break).


### Examples


|                         |      |
|-------------------------|------|
| <b>input</b>            | Copy |
| 15 3<br>cccaabababaccbc |      |
| <b>output</b>           | Copy |
| cccbbabaccbc            |      |
| <b>input</b>            | Copy |
| 15 9<br>cccaabababaccbc |      |
| <b>output</b>           | Copy |
| cccccc                  |      |
| <b>input</b>            | Copy |
| 1 1<br>u                |      |
| <b>output</b>           | Copy |
|                         |      |

**ICPC Assiut University Training - Juniors Phase 1 Sheets-2022**

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→ **Group Contests** 

- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 ( Binary search , Two pointers )
- Juniors Phase 1 Practice #3 ( STL 2 )
- Juniors Phase 1 Practice #2 ( STL 1 )
- Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )

**Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )**

Finished

Practice




→ **Virtual participation** 

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Start virtual contest

→ **Submit?**

Language: GNU G++20 13.2 (64 bit, win 

Choose file: 

Choose File

 No file chosen

Submit

→ **Last submissions**

| Submission                | Time              | Verdict                       |
|---------------------------|-------------------|-------------------------------|
| <a href="#">226856451</a> | Oct/06/2023 12:57 | Accepted                      |
| <a href="#">226852870</a> | Oct/06/2023 12:27 | Accepted                      |
| <a href="#">226847834</a> | Oct/06/2023 11:51 | Time limit exceeded on test 4 |