402. Remove K Digits ★

Question | Editorial Solution | My Submissions (/problems/remove-k-digits/submissions/)

Total Accepted: **5176** Total Submissions: **20048** Difficulty: **Medium**

Given a non-negative integer *num* represented as a string, remove *k* digits from the number so that the new number is the smallest possible.

Note:

- The length of *num* is less than 10002 and will be ≥ *k*.
- The given *num* does not contain any leading zero.

Example 1:

```
Input: num = "1432219", k = 3
Output: "1219"
Explanation: Remove the three digits 4, 3, and 2 to form the new number 1219 which is the smallest
```

Example 2:

```
Input: num = "10200", k = 1
Output: "200"
Explanation: Remove the leading 1 and the number is 200. Note that the output must not contain lea
```

Example 3:

```
Input: num = "10", k = 2
Output: "0"
Explanation: Remove all the digits from the number and it is left with nothing which is 0.
```

Subscribe (/subscribe/) to see which companies asked this question

Show Tags

Show Similar Problems

Have you met this question in a real interview? Yes No

Discuss (https://leetcode.com/discuss/questions/oj/remove-k-digits)

Pick One (/problems/random-one-question/)

Notes

Python

```
class Solution(object):
    def removeKdigits(self, num, k):
        """
        :type num: str
        :type k: int
        :rtype: str
        """
```

Custom Testcase

Shortcut: Ctrl + enter

Run Code | Submit Solution

Submission Result: Accepted (/submissions/detail/78205957/)

More Details > (/submissions/detail/78205957/)

Next challenges: (H) Create Maximum Number (/problems/create-maximum-number)

Send Feedback (mailto:admin@leetcode.com?subject=Feedback)

Share your acceptance!

2 1