

Week 1: May 1st–May 7th
Problems appear at midnight, Pacific Time

Week 2: May 8th–May 14th
Problems appear at midnight, Pacific Time

☒ Check If It Is a Straight Line

☒ Valid Perfect Square

☒ Find the Town Judge

☒ Flood Fill

☒ Single Element in a Sorted ...

☒ Remove K Digits

Week 3: May 15th–May 21st
The first problem for this section is ...

Week 4: May 22nd–May 28th
The first problem for this section is ...

Week 5: May 29th–May 31st
The first problem for this section is ...

Previous Next

Go to Discuss

Remove K Digits

Solution

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 $\geq k$.
- 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 leading zeroes.

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.

Java

```
1 class Solution {
2     public String removeKdigits(String num, int k) {
3         if(num.length()==k) return "0";
4         int i=0;
5         Stack<Character> stack=new Stack<>();
6         while(i<num.length()){
7             while(!stack.isEmpty() && k>0 && stack.peek().charAt(i)){
8                 stack.pop();
9                 k--;
10            }
11            stack.push(num.charAt(i));
12            i++;
13        }
14        while(!stack.isEmpty() && k>0){
15            stack.pop();
16            k--;
17        }
18        StringBuilder sb=new StringBuilder();
19        while(!stack.isEmpty()){
20            sb.append(stack.pop());
21        }
22        sb.reverse();
23        while(sb.length()>0 && sb.charAt(0)=='0'){
24            sb.delete(0,1);
25        }
26        return (sb.length()==0?"0":sb.toString());
27    }
28 }
```

☒ Custom Testcase [Contribute](#)

Run Code Submit

"14241106"

3

How to create a testcase

Submission Result: Accepted [More Details](#)

Share your acceptance!