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Leetcode May Challenge DAY: 13

1. Python class Solution: def removeKdigits(self, num: str, k: int) -> str: stack = [] for x in num: while stack and stack[-1] > x and k: # stack[-1]check to verify there are elements in stack stack.pop() k -= 1 stack.append(x) return "".join(stack[:len(stack)-k]).lstrip("0") or "0"



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2. C++

```
class Solution {
public:
  string removeKdigits(string num, int k) {
    for (int i=0; i<num.length()&k>0; i++){
      if (i==num.length()-1 || num[i]>num[i+1]){
        num.erase(i, 1);
        i-=2; k--;
        if (i<-1) i=-1;
    int ind = 0;
    while (ind<num.length() && num[ind]=='0'){</pre>
      ind++;
    return (ind==num.length()?"0":num.substr(ind));
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```

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3. JAVA

```
class Solution {
  public String removeKdigits(String num, int k) {
    int len = num.length();
    if (len == k){
      return "0";
    }
    //whenever we find decreasing, we replace the original one with current one
    //eg. 1432219
    //14 -> 13 -> 12 -> 12 -> 11
    //only deleting 1 digit, we can achieve the smallest
    int counter = 0;
    Stack<Character> stk = new Stack<>();
    for (; counter < len; counter++) {
       char curDigit = num.charAt(counter);
       while (!stk.isEmpty() && stk.peek() > curDigit && k > 0) {
         //replace all previous larger digit with cur digit(if k permits)
         stk.pop();
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      }
stk.push(curDigit);
    }
    //corner case: "1111", cannot find decreasing -> no deletion
    while (k > 0) {
```

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```
stk.pop();
--k;
}

StringBuilder sb = new StringBuilder();
while (!stk.isEmpty()) {
    sb.append(stk.pop());
}

sb.reverse();

//remove 0 at beiginning, except 0
while (sb.length() > 1 && sb.charAt(0) == '0') {
    sb.deleteCharAt(0);
}

return sb.toString();
```

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