





Given string num representing a non-negative integer num, and an integer k, return the smallest possible integer after removing k digits from num.

Example:-
$$\text{nums} = "1432219"$$
, $K=3$

Output = "1219"

nums = "10200", $K=1$

Output = "200" (nums.lury(K) = K)Nums = "22", K=2

Output = "0"

Intuition

stack/monotonic 99

stack/

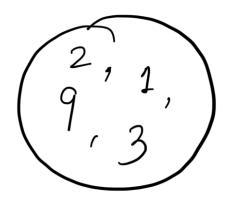
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ce I will devive the intuition from our childhood school lessons"







" 14 & 2 2 1 % ", K=3

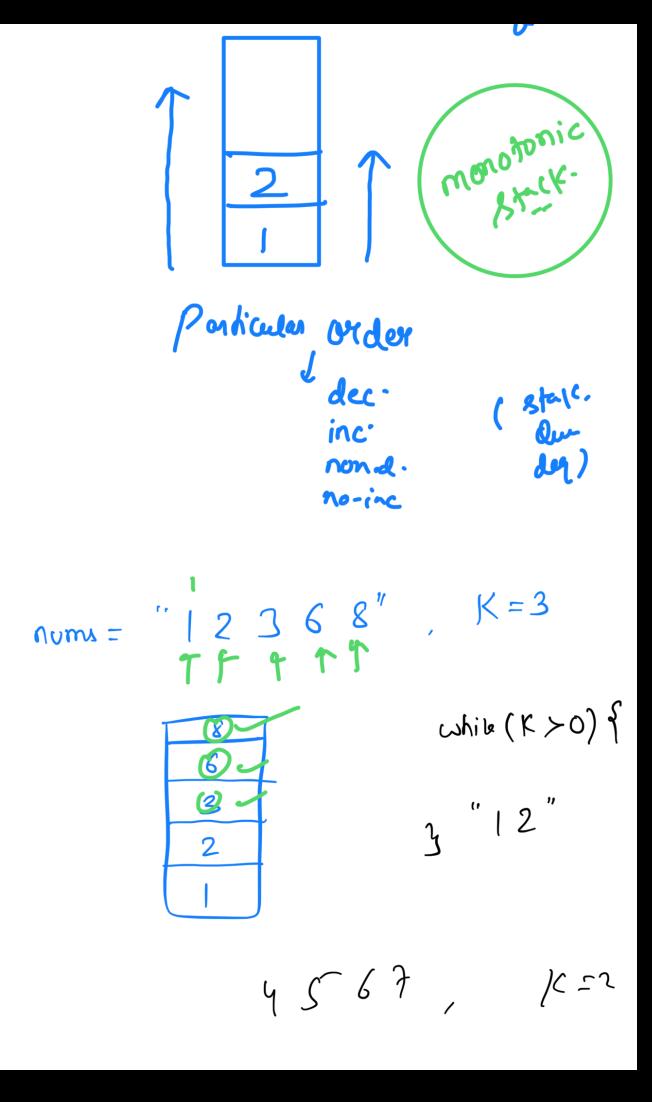
> 1221) > 1219

Greedy will fail.

ee IJ you want smallest, try to Keep digits in increasing order

$$num = " | 0200", K=V$$

M = °



$$T \cdot c = O(2 \times n)$$

$$\approx O(h)$$