Problem # 189 : Rotate Array. (Medium)

<https://leetcode.com/problems/rotate-array/>

My Solution:

<https://leetcode.com/problems/rotate-array/discuss/896600/Simple-Python-3-Solution-Runtime-beats-99.68>

Simple Python 3 Solution -- Runtime beats 99.68%

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1. If n = len(nums) and if we have k > n, we want to remove multiples of n from k. This is done by assigning k % n to k.

2. We cut and slice the nums array. However, if we assign this back to nums, nums will not get overwritten because it is a shallow copy, So, we need to have nums[:] so that the nums array can be overwritten.

Ref: https://stackoverflow.com/questions/57152755/difference-between-nums-nums-1-and-nums-nums-1/57152830

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class Solution:

def rotate(self, nums: List[int], k: int) -> None:

"""

Do not return anything, modify nums in-place instead.

"""

n = len(nums)

k = k % n

nums[:] = nums[n - k: ] + nums[ : n - k]

```