```python
class Solution:
    def nextPermutation(self, nums: List[int]) -> None:
        """
        Do not return anything, modify nums in-place instead.
        """
        if len(nums) == 1:
            return nums
        change = 0
        for i in range(len(nums)-2,-1,-1):
            if nums[i] < nums[i+1]:
                change = i
                break


        pter = len(nums)-1
        while pter > change:
            if nums[pter] > nums[change]:
                break
            pter-=1
        # print(change, pter)

        if pter != change:
            nums[change], nums[pter] = nums[pter], nums[change]
        else:
            nums[change], nums[-1] = nums[-1], nums[change]

        i = change+1
        j = len(nums)-1
        # print(nums)
        while i <= j:
            if nums[i] > nums[j]:
                nums[i], nums[j] = nums[j], nums[i]
                i+=1
            else:
                j-=1
            # print(i,j,nums)
```

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