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과반수를 차지하는(절반을 초과하는) 엘리먼트를 출력하라.
Input: nums = [3,2,3]
Output: 3
1.브루트포스
class Solution:
  def majorityElement(self, nums: List[int]) -> int:
    for n in nums:
       if nums.count(n) > len(nums) // 2:
         return n
2.다이나믹 프로그래밍
import collections
class Solution:
  def majorityElement(self, nums: List[int]) -> int:
    counts = collections.defaultdict(int)
    for num in nums:
       if counts[num] == 0:
         counts[num] = nums.count(num)
       if counts[num] > len(nums) // 2:
         return num
3.분할 정복
import collections
class Solution:
  def majorityElement(self, nums: List[int]) -> int:
    if not nums:
       return None
    if len(nums) == 1:
       return nums[0]
    half = len(nums) // 2
    a = self.majorityElement(nums[:half])
    b = self.majorityElement(nums[half:])
    return [b, a][nums.count(a) > half]
4.파이썬 다운
class Solution:
  def majorityElement(self, nums: List[int]) -> int:
    return sorted(nums)[len(nums) // 2]
```