17. Given two integer arrays nums1 and nums2, return an array of their intersection. Each element in the result must appear as many times as it shows in both arrays and you may return the result in any order

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PROGRAM:
def intersection(nums1, nums2):
  count1 = {}
  count2 = {}
  for num in nums1:
    count1[num] = count1.get(num, 0) + 1
  for num in nums2:
    count2[num] = count2.get(num, 0) + 1
  intersection = []
  for num in count1:
    if num in count2:
      intersection.extend([num] * min(count1[num], count2[num]))
  return intersection
nums1 = [1, 2, 2, 1]
nums2 = [2, 2]
result = intersection(nums1, nums2)
print("Intersection:", result)
          Intersection: [2, 2]
OUTPUT:
```

TIME COMPLEXITY: O(m+n)