350. Intersection of Two Arrays II Add to List ▾

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Total Accepted: **49248**   Total Submissions: **112630**   Difficulty: **Easy**   Contributors: **Admin**

Given two arrays, write a function to compute their intersection.

Example:

Given *nums1* = `[1, 2, 2, 1]`, *nums2* = `[2, 2]`, return `[2, 2]`.

Note:

- Each element in the result should appear as many times as it shows in both arrays.
- The result can be in any order.

Follow up:

- What if the given array is already sorted? How would you optimize your algorithm?
- What if *nums1*'s size is small compared to *nums2*'s size? Which algorithm is better?
- What if elements of *nums2* are stored on disk, and the memory is limited such that you cannot load all elements into the memory at once?

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Python ▾ ⟳ </>

```python
class Solution(object):
    def intersect(self, nums1, nums2):
        """
        :type nums1: List[int]
        :type nums2: List[int]
        :rtype: List[int]
        """
        i=0
        inter=[]

        while i < len(nums1):
            if nums1[i] in nums2:
                inter.append(nums1[i])
                nums2.remove(nums1[i])
            i=i+1
        return inter
```

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