

# Problem 349: Intersection of Two Arrays

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 77.12%

**Paid Only:** No

**Tags:** Array, Hash Table, Two Pointers, Binary Search, Sorting

## Problem Description

Given two integer arrays `nums1` and `nums2`, return an array of their intersection. Each element in the result must be **unique** and you may return the result in **any order**.

**Example 1:**

**Input:** nums1 = [1,2,2,1], nums2 = [2,2] **Output:** [2]

**Example 2:**

**Input:** nums1 = [4,9,5], nums2 = [9,4,9,8,4] **Output:** [9,4] **Explanation:** [4,9] is also accepted.

**Constraints:**

`1 <= nums1.length, nums2.length <= 1000` `0 <= nums1[i], nums2[i] <= 1000`

## Code Snippets

**C++:**

```
class Solution {
public:
    vector<int> intersection(vector<int>& nums1, vector<int>& nums2) {

    }
}
```

```
};
```

### Java:

```
class Solution {  
    public int[] intersection(int[] nums1, int[] nums2) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def intersection(self, nums1: List[int], nums2: List[int]) -> List[int]:
```