

674. Longest Continuous Increasing Subsequence

[1, 3, 4, 1]

I) Index = 0

1 < 3 ✓ counter = 2

II) Compare

3 < 4 ✓ counter = 3

III) count starts from 1

4 < 1 ✗ counter = 1

must be saved in order to compare

[1, 3, 5, 4, 7, 8, 10, 15, 1]

↖ ↗ ↖ ↗ ↖ ↗ ↖ ↗ (-)

counter=3

counter=5

3 < 5

349. Intersection of Two Arrays

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

Key

{ 3 }

349. Intersection of Two Arrays

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

Output: [2]

	Key	Value
{ 3 }	1	x2
Empty	2	2 ✓

88. Merge Sorted Array

Emp

Input: $\text{nums1} = [1,2,3,0,0,0]$, $m = 3$, $\text{nums2} = [2,5,6]$, $n = 3$

Output: $[1,2,2,3,5,6]$

```
i = n + m  
for num in nums2:  
    nums1[i - 1] = num  
    i -= 1  
n -= 1  
nums1.sort()
```

$i = 6$

$i = 5$

$i = 4$

$i = 3$

$i = 2$

$\text{nums1} = [1, 2, 3, 2, 5, 6]$

After sorting

$\text{nums1} = [1, 2, 2, 3, 5, 6]$