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Problems

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June LeetCode Challenge 2021

Premium



Description

Solution

Discuss (999+)

Submissions

Python3

Autocomplete



## 300. Longest Increasing Subsequence

Medium

7682

168

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Given an integer array `nums`, return the length of the longest strictly increasing subsequence.

A **subsequence** is a sequence that can be derived from an array by deleting some or no elements without changing the order of the remaining elements. For example, `[3,6,2,7]` is a subsequence of the array `[0,3,1,6,2,2,7]`.

### Example 1:

Input: `nums = [10,9,2,5,3,7,101,18]`

Output: 4

Explanation: The longest increasing subsequence is `[2,3,7,101]`, therefore the length is 4.

### Example 2:

Input: `nums = [0,1,0,3,2,3]`

Output: 4

### Example 3:

```
1 class Solution:
2     def lengthOfLIS(self, nums: List[int]) -> int:
3         arr = [1 for i in range(len(nums))]
4
5         for i in range(len(nums)-1,-1,-1):
6             for j in range(i+1,len(nums)):
7                 if(nums[j]>nums[i]):
8                     arr[i] = max(arr[j]+1,arr[i])
9
10        return max(arr)
```

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Problems

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Console

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