**300. Longest Increasing Subsequence**

Medium

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Given an unsorted array of integers, find the length of longest increasing subsequence.

**Example:**

**Input:** [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.

**Note:**

* There may be more than one LIS combination, it is only necessary for you to return the length.
* Your algorithm should run in O(*n2*) complexity.

**Follow up:** Could you improve it to O(*n* log *n*) time complexity?

1. dp

记录 长度，遍历之前的序列寻找小于且最长的

