

1121. Divide Array Into Increasing Sequences

- User Accepted:411
- User Tried:566
- Total Accepted:450
- Total Submissions:1116
- Difficulty:Hard

Given a **non-decreasing** array of positive integers `nums` and an integer `K`, find out if this array can be divided into one or more **disjoint increasing subsequences of length at least `K`**.

Example 1:

Input: `nums = [1,2,2,3,3,4,4], K = 3`

Output: `true`

Explanation:

The array can be divided into the two subsequences `[1,2,3,4]` and `[2,3,4]` with lengths at least 3 each.

Example 2:

Input: `nums = [5,6,6,7,8], K = 3`

Output: `false`

Explanation:

There is no way to divide the array using the conditions required.

Note:

1. `1 <= nums.length <= 10^5`
2. `1 <= K <= nums.length`
3. `1 <= nums[i] <= 10^5`