2294. Partition Array Such That Maximum Difference Is K

Solved

Medium | Topics | Companies | Hint

You are given an integer array `nums` and an integer `k`. You may partition `nums` into one or more **subsequences** such that each element in `nums` appears in **exactly** one of the subsequences.

Return *the **minimum** number of subsequences needed such that the difference between the maximum and minimum values in each subsequence is **at most** `k`.*

A **subsequence** is a sequence that can be derived from another sequence by deleting some or no elements without changing the order of the remaining elements.

Python3 • Auto

```python
class Solution:
    def partitionArray(self, nums: List[int], k: int) -> int:
        nums.sort()
        res = 1
        prev_min = nums[0]

        for i in range(1, len(nums)):
            if nums[i] - prev_min <= k:
                continue
            else:
                res += 1
                prev_min = nums[i]

        return res
```