

3375. Minimum Operations to Make Array Values Equal to K

Easy Topics Companies Hint

You are given an integer array `nums` and an integer `k`.

An integer `h` is called **valid** if all values in the array that are **strictly greater** than `h` are *identical*.

For example, if `nums = [10, 8, 10, 8]`, a **valid** integer is `h = 9` because all `nums[i] > 9` are equal to 10, but 5 is not a **valid** integer.

You are allowed to perform the following operation on `nums`:

- Select an integer `h` that is *valid* for the **current** values in `nums`.
- For each index `i` where `nums[i] > h`, set `nums[i]` to `h`.

Return the **minimum** number of operations required to make every element in `nums` **equal to** `k`. If it is impossible to make all elements equal to `k`, return -1.

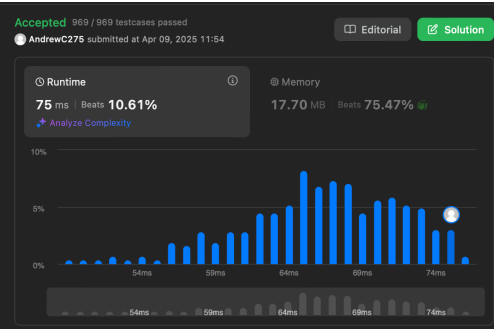
Example 1:

Input: `nums = [5,2,5,4,5]`, `k = 2`

Output: 2

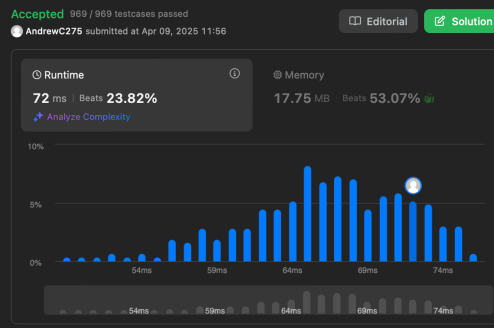
Explanation:

The operations can be performed in order using valid integers 4 and then 2.



```
1 class Solution:
2     def minOperations(self, nums: List[int], k: int) -> int:
3         if min(nums) < k:
4             return -1
5
6         dic = Counter(nums)
7         #print(dic)
8         count = sorted(dic.items(), key= lambda item:item[1])
9         #print(count)
10
11        if max(nums) == k:
12            return 0
13        elif min(nums) == k:
14            return len(count) - 1
15        else:
16            return len(count)
```

of each val
doesn't matter



```
1 class Solution:
2     def minOperations(self, nums: List[int], k: int) -> int:
3         if min(nums) < k:
4             return -1
5
6         s = set(nums)
7         if k in s:
8             return len(s) - 1
9         else:
10            return len(s)
```