


# 1437. Check If All 1's Are at Least Length K Places Away

Solved 

Easy

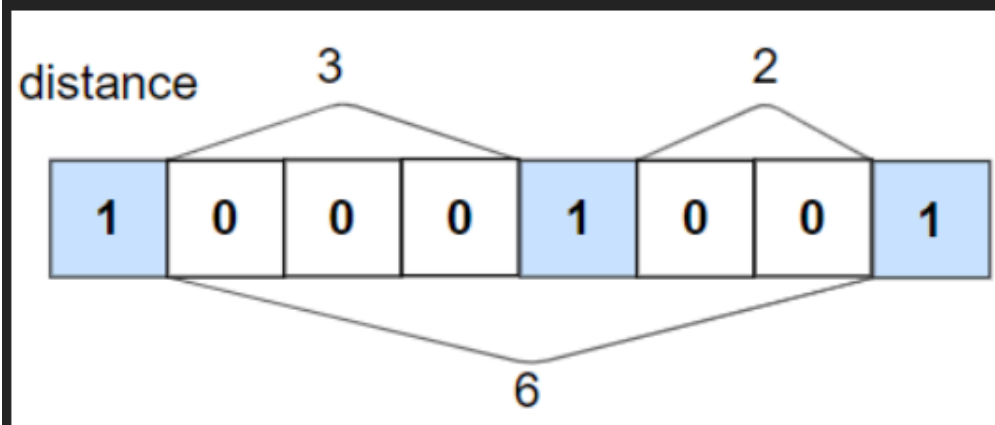
 Topics

 Companies

 Hint

Given an binary array `nums` and an integer `k`, return `true` if all 1's are at least `k` places away from each other, otherwise return `false`.

**Example 1:**

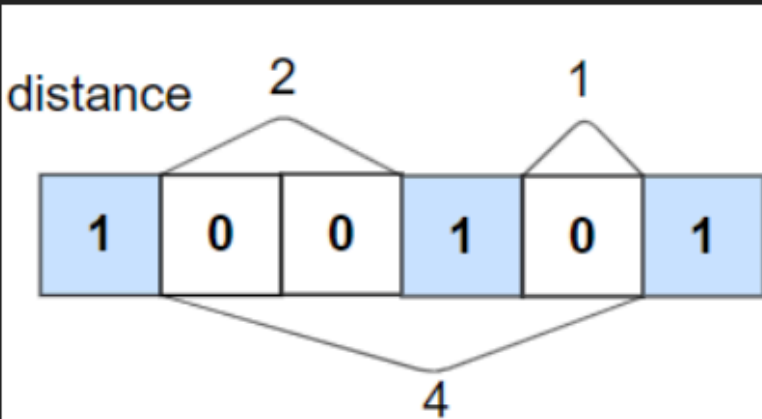


**Input:** `nums = [1,0,0,0,1,0,0,1]`, `k = 2`

**Output:** `true`

**Explanation:** Each of the 1s are at least 2 places away from each other.

### Example 2:



**Input:** `nums = [1,0,0,1,0,1], k = 2`

**Output:** `false`

**Explanation:** The second 1 and third 1 are only one apart from each other.

### Constraints:

- `1 <= nums.length <= 105`
- `0 <= k <= nums.length`
- `nums[i]` is `0` or `1`

## Python:

class Solution:

def kLengthApart(self, nums: List[int], k: int) -> bool:

if k == 0:

return True

prev = None

for i, num in enumerate(nums):

if num == 1:

if prev is not None and i - prev <= k:

return False

prev = i

return True

## JavaScript:

```
function kLengthApart(nums, k) {  
    let lastOneIndex = -1  
  
    for (let i = 0; i < nums.length; i++) {  
        if (nums[i] === 1) {  
            if (lastOneIndex !== -1 && i - lastOneIndex - 1 < k) return false  
            lastOneIndex = i  
        }  
    }  
  
    return true  
};
```

## Java:

```
class Solution {  
    public boolean kLengthApart(int[] nums, int k) {  
        int lastIndex = -1;  
  
        for (int i = 0; i < nums.length; i++) {  
            if (nums[i] == 1) {  
                if (lastIndex != -1 && i - lastIndex - 1 < k) {  
                    return false;  
                }  
                lastIndex = i;  
            }  
        }  
  
        return true;  
    }  
}
```