

55) Check If All 1's Are at Least Length K Places Away

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.

CODE:

```
def k_length_apart(nums, k):
    prev_pos = -1

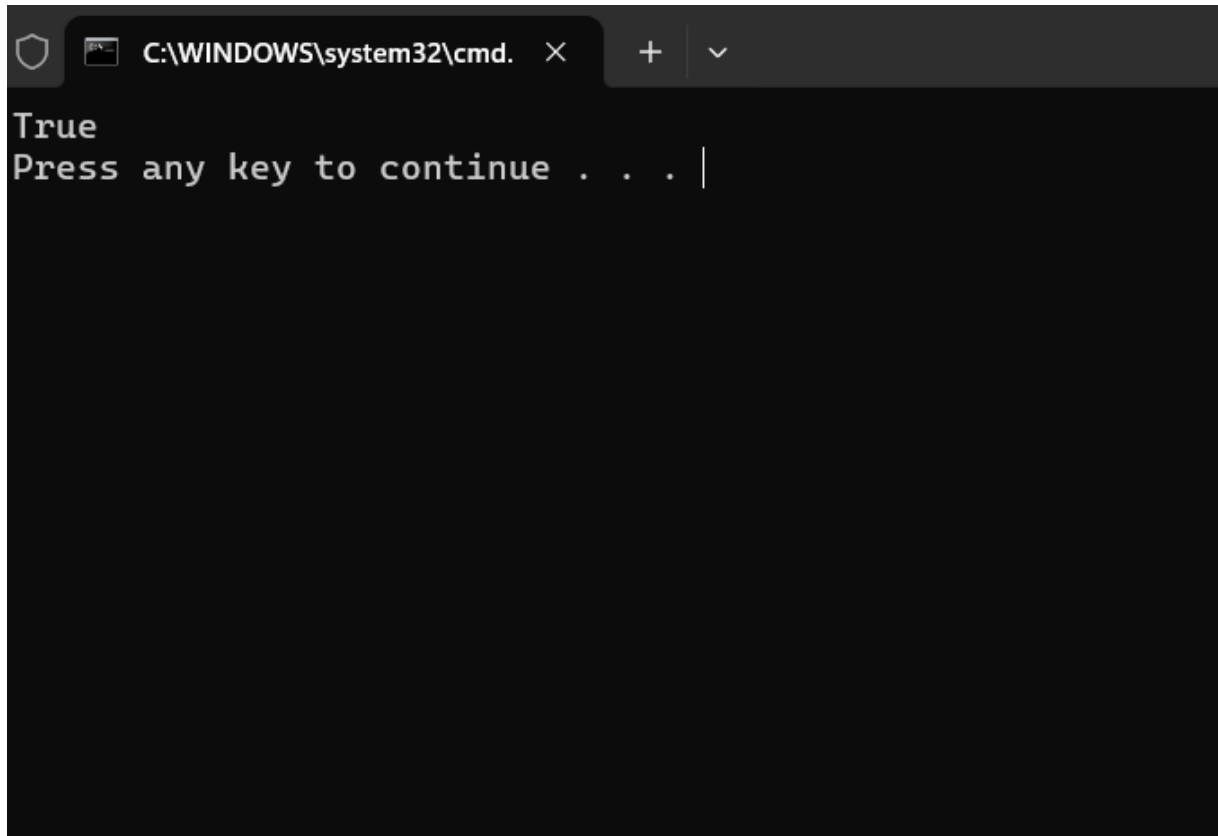
    for i in range(len(nums)):
        if nums[i] == 1:
            if prev_pos != -1 and (i - prev_pos - 1) < k:
                return False
            prev_pos = i

    return True

nums1 = [1,0,0,0,1,0,0,1]
k1 = 2
print(k_length_apart(nums1, k1))

nums2 = [1,0,0,1,0,1]
k2 = 2
print(k_length_apart(nums2, k2))
```

OUTPUT:

A screenshot of a Windows Command Prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' with a close button. The window has a dark background. The output text is 'True' on the first line, followed by 'Press any key to continue . . . |' on the second line, with a cursor at the end of the second line.

TIME COMPLEXITY : O(n)