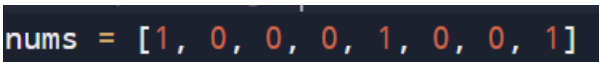



### 31) Check If All 1's Are at Least Length K Places Away

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.

PROGRAM:

```
def k_length_apart(nums, k):  
    prev_index = -1 # Initialize the previous index of '1' to -1  
  
    for i in range(len(nums)):  
        if nums[i] == 1: # When we encounter a '1'  
            if prev_index != -1: # Check if this is not the first '1' encountered  
                if i - prev_index - 1 < k: # Calculate the distance from the previous '1'  
                    return False # If distance is less than k, return False  
            prev_index = i # Update the previous index to the current index  
  
    return True # If loop completes, all '1's are at least k places away  
  
# Example usage:  
nums = [1, 0, 0, 0, 1, 0, 0, 1]  
k = 2  
print(k_length_apart(nums, k)) # Output: True
```

INPUT: 

OUTPUT: 

TIME COMPLEXITY:  $O(n)$