Problem # 219 : Contains Duplicate II

<https://leetcode.com/problems/contains-duplicate-ii/>

Solution:

1. Create an empty dictionary

2. Use enumerate to get the index of the array and iterate through the array.

Store in the dictionary – key = number and value = index

If the number in the array is already in the dictionary and if the absolute value of the difference

between the current index and the value from the dictionary is less than or equal to k, return True.

If not returning anything, put in the dictionary the key = the number and value = index.

Note: we do this whether the item is in the dictionary or not. Even if the item is already in the dictionary we want to update the index value to the latest value.

class Solution:

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

my\_dict = {}

for i, num in enumerate(nums):

if (num in my\_dict) and (abs(my\_dict[num] - i) <= k):

return(True)

my\_dict[num] = i

return(False)