560. Subarray Sum Equals K

Given an array of integers nums and an integer k, return the total number of subarrays whose sum equals to k.

A subarray is a contiguous **non-empty** sequence of elements within an array.

Example 1:

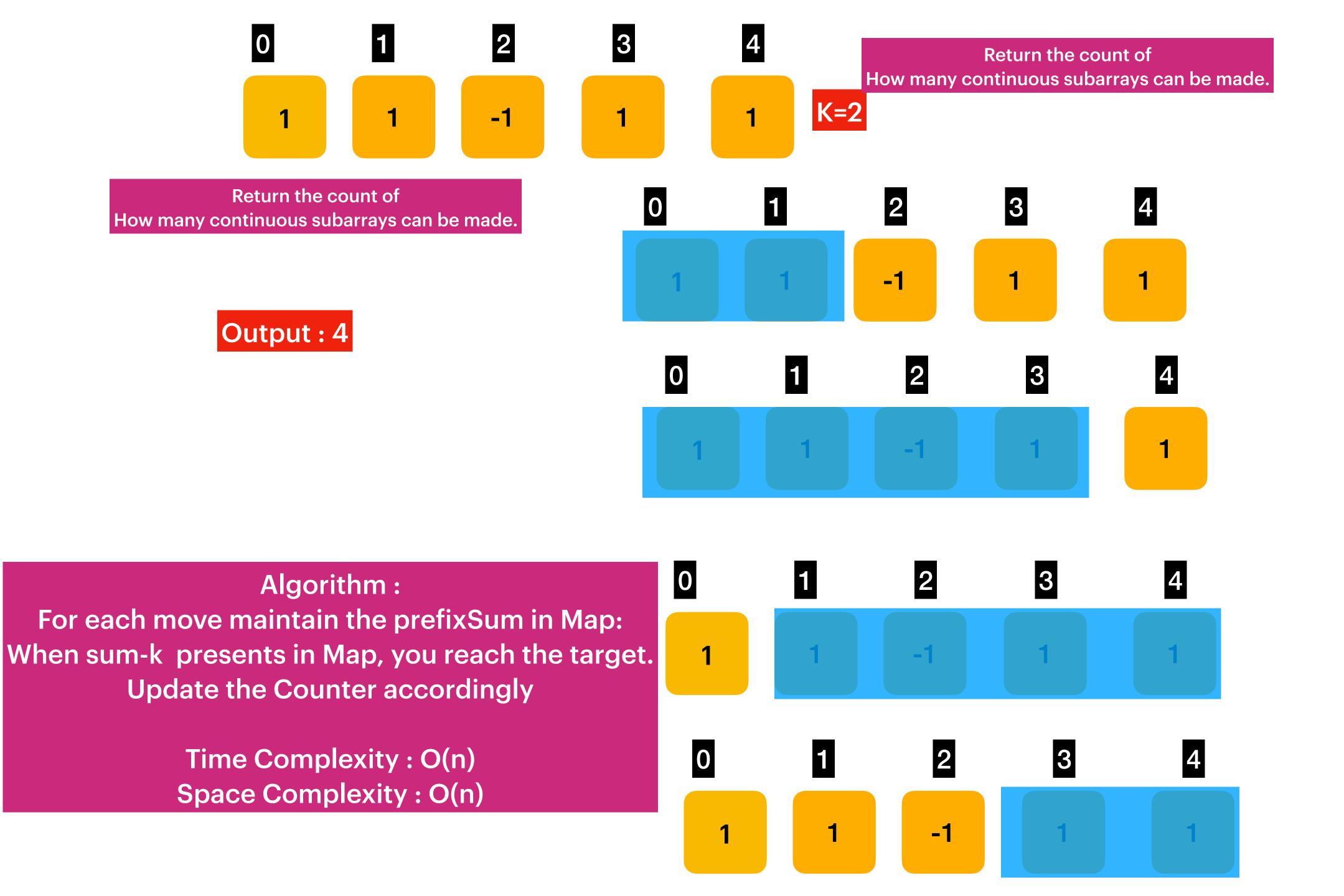
```
Input: nums = [1,1,1], k = 2
Output: 2
```

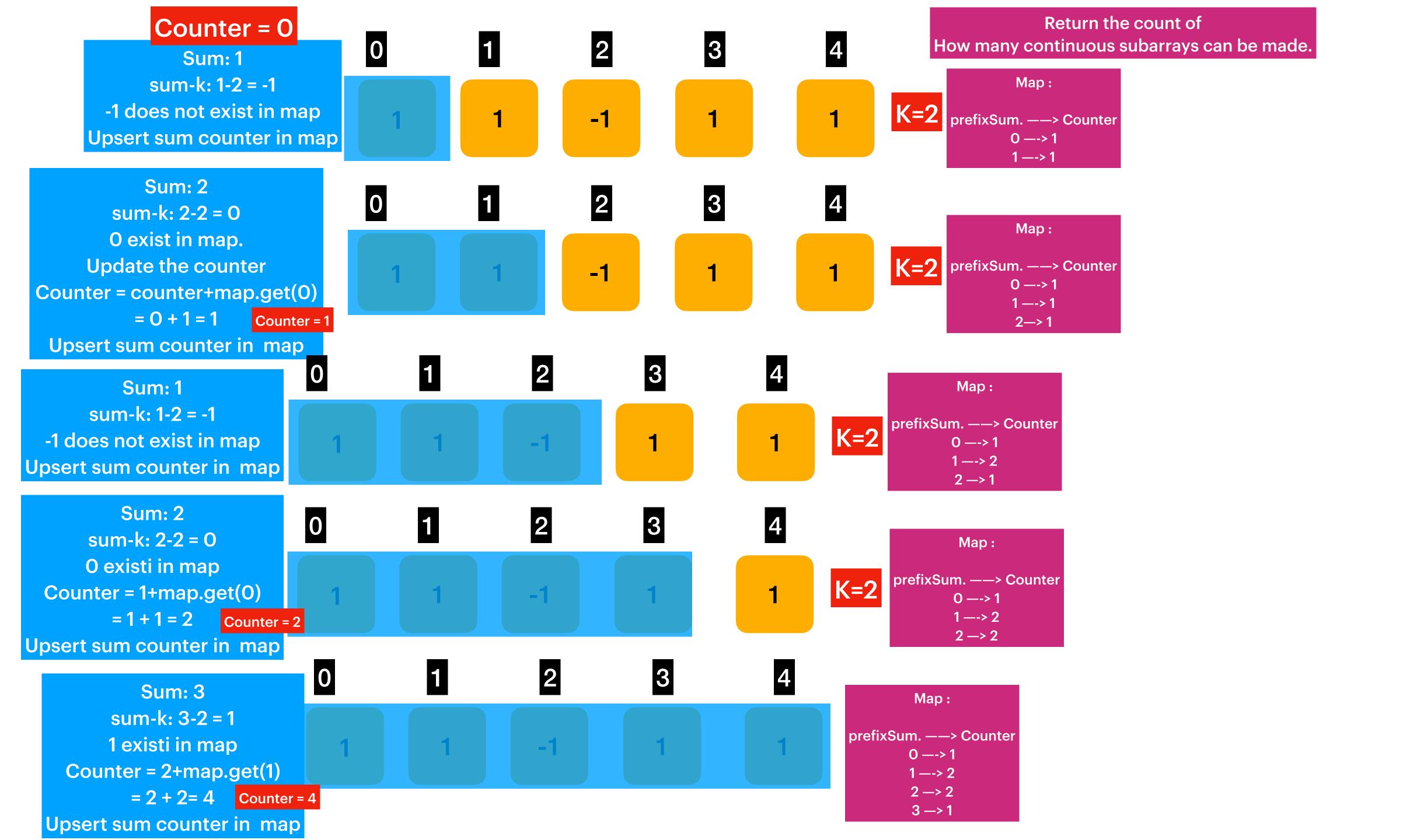
Example 2:

```
Input: nums = [1,2,3], k = 3
Output: 2
```

Constraints:

- 1 <= nums.length <= $2 * 10^4$
- \bullet -1000 <= nums[i] <= 1000
- \bullet -10⁷ <= k <= 10⁷





49. Group Anagrams

Given an array of strings strs, group **the anagrams** together. You can return the answer in **any order**.

An **Anagram** is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.

Example 1:

```
Input: strs = ["eat","tea","tan","ate","nat","bat"]
Output: [["bat"],["nat","tan"],["ate","eat","tea"]]
```

Example 2:

```
Input: strs = [""]
Output: [[""]]
```

Example 3:

```
Input: strs = ["a"]
Output: [["a"]]
```

Constraints:

- 1 <= strs.length <= 10⁴
- 0 <= strs[i].length <= 100
- strs[i] consists of lowercase English letters.

```
Anagrams —>
 Input: strs = ["eat","tea","tan","ate","nat","bat"]
                                                              "eat", "tea", "ate"],
                                                                ["nat", "tan"],
After sort each anagram returns the same key.
                                                                    ["bat"]
  key: aet ---> value:[ "eat", "tea", "ate"],
    Key: ant -> value: ["nat", "tan"],
      Key: abt -> value: ["bat"],
                                                             Algorithm : O(n*klogk)
                                                               1. Iterate string arr.
                                                           2. Sort each String: O(klogk)
                                          3. Upserts key:[sortedString] value:[currentIteratedString] in the map
      Map<String, List<String> >
```

Time Complexity: O(n*klogk)
Space Complexity: O(n*k) ~ O(n)