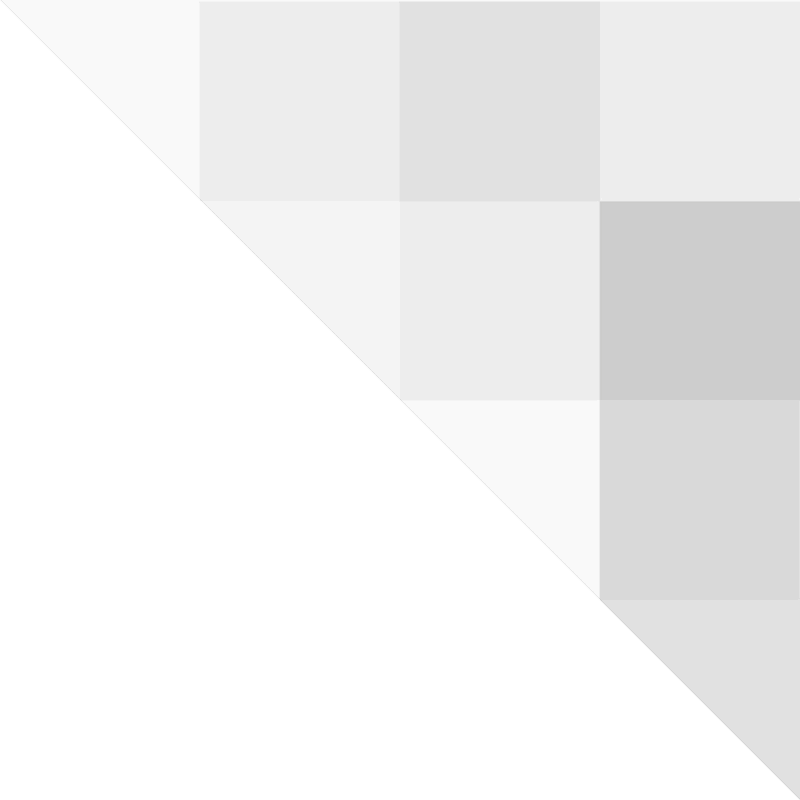
2020 02 08 – Contiguous Arrays

**Q1. Subarray Sum Equals K**

Link:<https://leetcode.com/problems/subarray-sum-equals-k/>

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| --- | --- |
| **Example 1**  **Input:** nums = [1,1,1], k = 2  **Output:** 2 | **Example 2**  **Input:** nums = [1,7,6,2,3,3,2], k = 8  **Output:** 4 |

Given an array of integers and an integer **k**, you need to find the total number of continuous subarrays whose sum equals to **k**.

**Q2. Continuous Subarray Sum**

Link:<https://leetcode.com/problems/continuous-subarray-sum/>

Given a list of **non-negative** numbers and a target **integer** k, write a function to check if the array has a continuous subarray of size at least 2 that sums up to a multiple of **k**, that is, sums up to n\*k where n is also an **integer**.

|  |  |
| --- | --- |
| **Example 1:**  **Input:** [23,2,4,6,7], k=6  **Output:** True  **Explanation:** Because [2, 4] is a continuous subarray of size 2 and sums up to 6. |  |

# Q3. Subarray Product Less Than K

Link:<https://leetcode.com/problems/subarray-product-less-than-k/>

You are given an array of positive integers nums.

Count and print the number of (contiguous) subarrays where the product of all the elements in the subarray is less than k.

**Example 1:**

**Input:** nums = [10, 5, 2, 6], k = 100

**Output:** 8

**Explanation:** The 8 subarrays that have product less than 100 are: [10], [5], [2], [6], [10, 5], [5, 2], [2, 6], [5, 2, 6].

Note that [10, 5, 2] is not included as the product of 100 is not strictly less than k.

**Note:**

* 0 < nums.length <= 50000.
* 0 < nums[i] < 1000.
* 0 <= k < 10^6.