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523. Continuous Subarray Sum

Medium

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Given an integer array `nums` and an integer `k`, return `true` if `nums` has a **good subarray** or `false` otherwise.

A **good subarray** is a subarray where:

- its length is **at least two**, and
- the sum of the elements of the subarray is a multiple of `k`.

Note that:

- A **subarray** is a contiguous part of the array.
- An integer `x` is a multiple of `k` if there exists an integer `n` such that `x = n * k`. `0` is **always** a multiple of `k`.

Example 1:

Input: `nums = [23,2,4,6,7]`, `k = 6`
Output: `true`
Explanation: `[2, 4]` is a continuous subarray of size 2 whose elements sum up to 6.

Example 2:

Input: `nums = [23,2,6,4,7]`, `k = 6`
Output: `true`
Explanation: `[23, 2, 6, 4, 7]` is an continuous subarray of size 5 whose elements sum up to 42.
42 is a multiple of 6 because `42 = 7 * 6` and 7 is an integer.

Example 3:

Input: `nums = [23,2,6,4,7]`, `k = 13`
Output: `false`

Constraints:

- `1 <= nums.length <= 105`
- `0 <= nums[i] <= 109`
- `0 <= sum(nums[i]) <= 231 - 1`
- `1 <= k <= 231 - 1`

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class Solution {

public boolean checkSubarraySum(int[] nums, int k) {

}

}

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