## 523. Continuous Subarray Sum

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<u>Description</u> <u>SubmissionsSolutions</u>

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Difficulty: MediumContributors:xuehaohu

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 the 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 t

06.

## Example 2:

**Input:** [23, 2, 6, 4, 7], k=6

Output: True

Explanation: Because [23, 2, 6, 4, 7] is an continuous subarray of size 5 an

d sums up to 42.

## Note:

- 1. The length of the array won't exceed 10,000.
- 2. You may assume the sum of all the numbers is in the range of a signed 32-bit integer.

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```
class Solution {
public:
    bool checkSubarraySum(vector<int>& nums, int k) {
       int n = nums.size();
       vector<int> sum(n+1,0);
       for(int i=1;i<=n;i++)</pre>
       {
           sum[i] = sum[i-1]+nums[i-1];
           for(int j=0;j<i-1;j++)</pre>
           {
               int diff = sum[i]-sum[j];
               if(diff==0 && k==0) return true;
               else if (k==0) continue;
               else if(diff%k==0) return true;
           }
       }
       return false;
    }
```

**}**;