325. Maximum Size Subarray Sum Equals k

Medium 1442 43 Add to List Share

Given an integer array `nums` and an integer `k`, return *the maximum length of a subarray that sums to* `k`. If there isn't one, return `0` instead.

Example 1:

```
Input: nums = [1,-1,5,-2,3], k = 3
Output: 4
Explanation: The subarray [1, -1, 5, -2] sums to 3 and is the longest.
```

Example 2:

```
Input: nums = [-2,-1,2,1], k = 1
Output: 2
Explanation: The subarray [-1, 2] sums to 1 and is the longest.
```

Constraints:

- `1 <= nums.length <= 2 * 10^5`
- `-10^4 <= nums[i] <= 10^4`
- `-10^9 <= k <= 10^9`

Accepted 138,230 | Submissions 285,014

Seen this question in a real interview before? Yes No

Companies

0 ~ 6 months 6 months ~ 1 year 1 year ~ 2 years

Facebook | 5 Microsoft | 2

Related Topics

Array Hash Table

Similar Questions

Minimum Size Subarray Sum	Medium
Range Sum Query - Immutable	Easy
Contiguous Array	Medium
Subarray Product Less Than K	Medium

Hide Hint 1

Try to compute a sum of a subsequence very fast, i.e in *O(1)* ... Think of prefix sum array.

Hide Hint 2

Given *S[i]* a partial sum that starts at position *0* and ends at *i*, what can *S[i - k]* tell you ?

Hide Hint 3

Use HashMap + prefix sum array.

Java Autocomplete

```java
class Solution {
    public int maxSubArrayLen(int[] nums, int k) {

    }
}
```