## 325. Maximum Size Subarray Sum Equals k Premium ∩ Hint Medium Given an integer array nums and an integer k, return the maximum length of a subarray that sums to k. If there is not 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<sup>5</sup> • $-10^4 <= nums[i] <= 10^4$ • $-10^9 <= k <= 10^9$ Seen this question in a real interview before? 1/5 Yes No Accepted 192.8K Submissions 387.6K Acceptance Rate 49.7% Topics Array Hash Table Prefix Sum Companies 0 - 3 months Meta 3 Goldman Sachs 2 0 - 6 months Palantir Technologies (2) 6 months ago Amazon (3) Microsoft 2 Hint 1 Compute the prefix sum array where psum[i] is the sum of all the elements from 0 to i. Hint 2 At each index i, the sum of the prefix is psum[i], so we are searching for the index x where psum[x] = psum[i] - k. The subarray [x + 1, i] will be of sum k. ଠ Hint 3 Use a hashmap to get the index x efficiently or to determine that it does not exist. **E** Similar Questions Minimum Size Subarray Sum Medium Range Sum Query - Immutable Easy Contiguous Array Medium Subarray Product Less Than K Medium Maximum Beauty of an Array After Applying Operation Medium

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