[LeetCode](https://leetcode.com/problems/binary-subarrays-with-sum/description/?envType=daily-question&envId=2024-03-14)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/binary-subarrays-with-sum/description/?envType=daily-question&envId=2024-03-14>

<https://www.linkedin.com/in/aditya-adi-konda/>

Day 24 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
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Just kicked off my coding journey with a fascinating problem - "Successfully solved LeetCode Problem “930. Binary Subarrays With Sum!”  
   
✨ Task: Given a binary array nums and an integer goal, return the number of non-empty subarrays with a sum goal.

A subarray is a contiguous part of the array.

Examples:

Example 1:

Input: nums = [1,0,1,0,1]

Goal = 2

Output: 4

Explanation: The 4 subarrays are bolded and underlined below:

[1,0,1,0,1]

[1,0,1,0,1]

[1,0,1,0,1]

[1,0,1,0,1]

Example 2:

Input: nums = [0,0,0,0,0]

Goal = 0

Output: 15

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: <https://github.com/AdityaKonda6/-50DaysOfCoding>  
  
  
Happy coding!

**Solution:-**

class Solution {

  public int numSubarraysWithSum(int[] nums, int goal) {

    int ans = 0;

    int prefix = 0;

    Map<Integer, Integer> count = new HashMap<>();

    count.put(0, 1);

    for (final int num : nums) {

      prefix += num;

      final int key = prefix - goal;

      if (count.containsKey(key))

        ans += count.get(key);

      count.merge(prefix, 1, Integer::sum);

    }

    return ans;

  }

}

