

# Problem 930: Binary Subarrays With Sum

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 67.52%

**Paid Only:** No

**Tags:** Array, Hash Table, Sliding Window, Prefix Sum

## Problem Description

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.

**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

**Constraints:**

`1 <= nums.length <= 3 * 104` `nums[i]` is either `0` or `1`. `0 <= goal <= nums.length`

## Code Snippets

**C++:**

```
class Solution {
public:
```

```
int numSubarraysWithSum(vector<int>& nums, int goal) {  
  
}  
};
```

### Java:

```
class Solution {  
    public int numSubarraysWithSum(int[] nums, int goal) {  
  
    }  
}
```

### Python3:

```
class Solution:  
    def numSubarraysWithSum(self, nums: List[int], goal: int) -> int:
```