You are given an integer array nums and two integers limit and goal. The array nums has an interesting property that abs(nums[i]) <= limit.

Return *the minimum number of elements you need to add to make the sum of the array equal to*goal. The array must maintain its property that abs(nums[i]) <= limit.

Note that abs(x) equals x if x >= 0, and -x otherwise.

**Example 1:**

**Input:** nums = [1,-1,1], limit = 3, goal = -4

**Output:** 2

**Explanation:** You can add -2 and -3, then the sum of the array will be 1 - 1 + 1 - 2 - 3 = -4.

**Example 2:**

**Input:** nums = [1,-10,9,1], limit = 100, goal = 0

**Output:** 1

**Constraints:**

* 1 <= nums.length <= 105
* 1 <= limit <= 106
* -limit <= nums[i] <= limit
* -109 <= goal <= 109