1785. Minimum Elements to Add to Form a Given Sum

Description

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 <= 10^5`
- `1 <= limit <= 10^6`
- `-limit <= nums[i] <= limit`
- `-10^9 <= goal <= 10^9`