2006. Count Number of Pairs With Absolute Difference K

Description

Given an integer array `nums` and an integer `k`, return *the number of pairs* `(i, j)` *where* `i < j` *such that* `|nums[i] - nums[j]| == k`.

The value of `|x|` is defined as:

- `x` if `x >= 0`.
- `-x` if `x < 0`.

Example 1:

```
Input: nums = [1,2,2,1], k = 1
Output: 4
Explanation: The pairs with an absolute difference of 1 are:
- [ 1 , 2 ,2,1]
- [ 1 ,2, 2 ,1]
- [1, 2 ,2, 1 ]
- [1,2, 2 , 1 ]
```

Example 2:

```
Input: nums = [1,3], k = 3
Output: 0
Explanation: There are no pairs with an absolute difference of 3.
```

Example 3:

```
Input: nums = [3,2,1,5,4], k = 2
Output: 3
Explanation: The pairs with an absolute difference of 2 are:
- [ 3 ,2, 1 ,5,4]
- [ 3 ,2,1, 5 ,4]
- [3, 2 ,1,5, 4 ]
```

Constraints:

- `1 <= nums.length <= 200`
- `1 <= nums[i] <= 100`
- `1 <= k <= 99`