

923. 3Sum With Multiplicity

Description

Given an integer array `arr`, and an integer `target`, return the number of tuples `i, j, k` such that `i < j < k` and `arr[i] + arr[j] + arr[k] == target`.

As the answer can be very large, return it **modulo** `$10^9 + 7$` .

[Example 1:](#)

Input: `arr = [1,1,2,2,3,3,4,4,5,5]`, `target = 8`

Output: 20

Explanation:

Enumerating by the values (`arr[i]`, `arr[j]`, `arr[k]`):

(1, 2, 5) occurs 8 times;

(1, 3, 4) occurs 8 times;

(2, 2, 4) occurs 2 times;

(2, 3, 3) occurs 2 times.

[Example 2:](#)

Input: `arr = [1,1,2,2,2,2]`, `target = 5`

Output: 12

Explanation:

`arr[i] = 1`, `arr[j] = arr[k] = 2` occurs 12 times:

We choose one 1 from [1,1] in 2 ways,

and two 2s from [2,2,2,2] in 6 ways.

[Example 3:](#)

Input: `arr = [2,1,3]`, `target = 6`

Output: 1

Explanation: (1, 2, 3) occurred one time in the array so we return 1.

[Constraints:](#)

- `3 <= arr.length <= 3000`
- `0 <= arr[i] <= 100`
- `0 <= target <= 300`

