2597. The Number of Beautiful Subsets

Description

You are given an array `nums` of positive integers and a **positive** integer `k`.

A subset of `nums` is **beautiful** if it does not contain two integers with an absolute difference equal to `k`.

Return *the number of* ***non-empty beautiful*** *subsets of the array* `nums`.

A **subset** of `nums` is an array that can be obtained by deleting some (possibly none) elements from `nums`. Two subsets are different if and only if the chosen indices to delete are different.

Example 1:

```
Input: nums = [2,4,6], k = 2
Output: 4
Explanation: The beautiful subsets of the array nums are: [2], [4], [6], [2, 6].
It can be proved that there are only 4 beautiful subsets in the array [2,4,6].
```

Example 2:

```
Input: nums = [1], k = 1
Output: 1
Explanation: The beautiful subset of the array nums is [1].
It can be proved that there is only 1 beautiful subset in the array [1].
```

Constraints:

- `1 <= nums.length <= 20`
- `1 <= nums[i], k <= 1000`