

# Problem 2778: Sum of Squares of Special Elements

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 81.62%

**Paid Only:** No

**Tags:** Array, Enumeration

## Problem Description

You are given a **1-indexed** integer array `nums` of length `n`.

An element `nums[i]` of `nums` is called **special** if `i` divides `n`, i.e. `n % i == 0`.

Return **the sum of the squares** of all **special** elements of **nums**.

**Example 1:**

**Input:** nums = [1,2,3,4] **Output:** 21 **Explanation:** There are exactly 3 special elements in nums: nums[1] since 1 divides 4, nums[2] since 2 divides 4, and nums[4] since 4 divides 4. Hence, the sum of the squares of all special elements of nums is  $1 * 1 + 2 * 2 + 4 * 4 = 21$ .

**Example 2:**

**Input:** nums = [2,7,1,19,18,3] **Output:** 63 **Explanation:** There are exactly 4 special elements in nums: nums[1] since 1 divides 6, nums[2] since 2 divides 6, nums[3] since 3 divides 6, and nums[6] since 6 divides 6. Hence, the sum of the squares of all special elements of nums is  $1 * 1 + 2 * 2 + 3 * 3 + 6 * 6 = 63$ .

**Constraints:**

$1 \leq n \leq 50$   $1 \leq \text{nums}[i] \leq 50$

## Code Snippets

### C++:

```
class Solution {
public:
    int sumOfSquares(vector<int>& nums) {
        }
};
```

### Java:

```
class Solution {
    public int sumOfSquares(int[] nums) {
        }
}
```

### Python3:

```
class Solution:
    def sumOfSquares(self, nums: List[int]) -> int:
```