Problem 3718: Smallest Missing Multiple of K

Problem Information

Difficulty: Easy
Acceptance Rate: 62.92%
Paid Only: No
Tags: Array, Hash Table

Problem Description

Given an integer array `nums` and an integer `k`, return the **smallest positive multiple** of `k` that is **missing** from `nums`.

A **multiple** of `k` is any positive integer divisible by `k`.

Example 1:

Input: nums = [8,2,3,4,6], k = 2

Output: 10

Explanation:

The multiples of `k = 2` are 2, 4, 6, 8, 10, 12... and the smallest multiple missing from `nums` is 10.

Example 2:

Input: nums = [1,4,7,10,15], k = 5

Output: 5

Explanation:

The multiples of `k = 5` are 5, 10, 15, 20... and the smallest multiple missing from `nums` is 5.

Constraints:

* `1 <= nums.length <= 100` * `1 <= nums[i] <= 100` * `1 <= k <= 100`

Code Snippets

C++:

```
class Solution {
public:
int missingMultiple(vector<int>& nums, int k) {

}
};
```

Java:

```
class Solution {
public int missingMultiple(int[] nums, int k) {

}
}
```

Python3:

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