

2453. Destroy Sequential Targets

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You are given a **0-indexed** array `nums` consisting of positive integers, representing targets on a number line. You are also given an integer `space`.

You have a machine which can destroy targets. **Seeding** the machine with some `nums[i]` allows it to destroy all targets with values that can be represented as `nums[i] + c * space`, where `c` is any non-negative integer. You want to destroy the **maximum** number of targets in `nums`.

Return the **minimum value** of `nums[i]` you can seed the machine with to destroy the maximum number of targets.

User Accepted:	3201
User Tried:	5402
Total Accepted:	3308
Total Submissions:	13067
Difficulty:	Medium

Example 1:

Input: `nums = [3,7,8,1,1,5]`, `space = 2`
Output: 1
Explanation: If we seed the machine with `nums[3]`, then we destroy all targets equal to 1,3,5,7,9,... In this case, we would destroy 5 total targets (all except for `nums[2]`). It is impossible to destroy more than 5 targets, so we return `nums[3]`.

Example 2:

Input: `nums = [1,3,5,2,4,6]`, `space = 2`
Output: 1
Explanation: Seeding the machine with `nums[0]`, or `nums[3]` destroys 3 targets. It is not possible to destroy more than 3 targets. Since `nums[0]` is the minimal integer that can destroy 3 targets, we return 1.

Example 3:

Input: `nums = [6,2,5]`, `space = 100`
Output: 2
Explanation: Whatever initial seed we select, we can only destroy 1 target. The minimal seed is `nums[1]`.

Constraints:

- `1 <= nums.length <= 105`
- `1 <= nums[i] <= 109`
- `1 <= space <= 109`

Discuss (https://leetcode.com/problems/destroy-sequential-targets/discuss)

JavaScript

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```
1 const destroyTargets = (a, space) => {
2   let m = new Map(), res = 0, max = 0;
3   for (const x of a) {
4     let rem = x % space;
5     if (!m.has(rem)) m.set(rem, []);
6     m.get(rem).push(x);
7   }
8   for (const [, d] of m) {
9     if (d.length > max) {
10      max = d.length;
11      res = Math.min(...d);
12    } else if (d.length == max) {
13      res = Math.min(res, Math.min(...d));
14    }
15  }
16  return res;
17 };
```

☐ Custom Testcase

Use Example Testcases

Run

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Submission Result: **Accepted** (/submissions/detail/835130289/) ⓘ

More Details ➤ (/submissions/detail/835130289/)

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