5504. Make Sum Divisible by P

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Given an array of positive integers nums, remove the **smallest** subarray (possibly **empty**) such that the **sum** of the remaining elements is divisible by p. It is **not** allowed to remove the whole array.

Return the length of the smallest subarray that you need to remove, or -1 if it's impossible.

A subarray is defined as a contiguous block of elements in the array.

User Accepted:	0
User Tried:	3
Total Accepted:	0
Total Submissions:	3
Difficulty:	Medium

Example 1:

Input: nums = [3,1,4,2], p = 6

Output: 1

Explanation: The sum of the elements in nums is 10, which is not divisible by 6. We can $r\epsilon$

Example 2:

Input: nums = [6,3,5,2], p = 9

Output: 2

Explanation: We cannot remove a single element to get a sum divisible by 9. The best way i

Example 3:

Input: nums = [1,2,3], p = 3

Output: 0

Explanation: Here the sum is 6. which is already divisible by 3. Thus we do not need to $r\epsilon$

Example 4:

Input: nums = [1,2,3], p = 7

Output: -1

Explanation: There is no way to remove a subarray in order to get a sum divisible by 7.

Example 5:

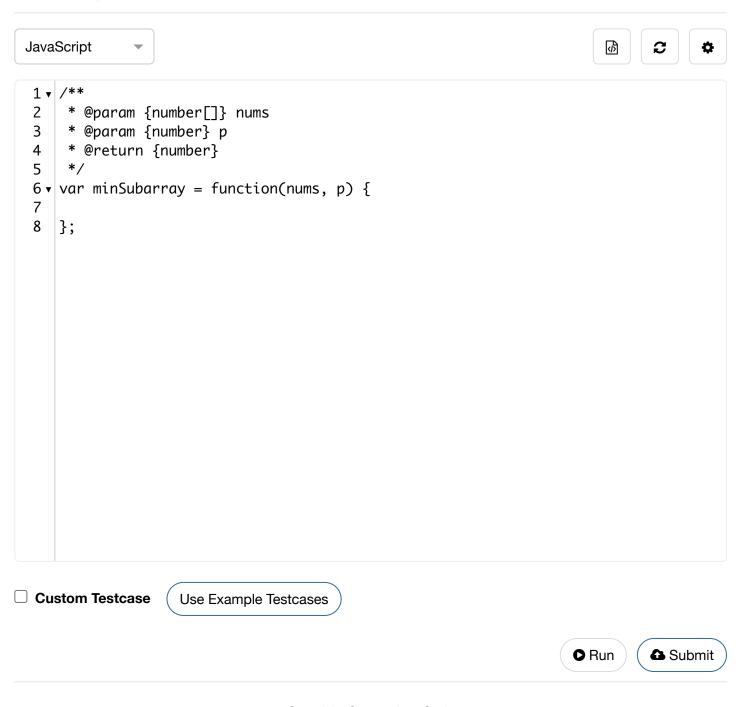
Input: nums = [1000000000,100000000,1000000000], p = 3

Output: 0

Constraints:

```
    1 <= nums.length <= 10<sup>5</sup>
    1 <= nums[i] <= 10<sup>9</sup>
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• 1 \le p \le 10^9
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