# 2905. Find Indices With Index and Value Difference II

## Description

You are given a **0-indexed** integer array nums having length n, an integer indexDifference, and an integer valueDifference.

Your task is to find **two** indices i and j, both in the range [0, n - 1], that satisfy the following conditions:

- abs(i j) >= indexDifference , and
- abs(nums[i] nums[j]) >= valueDifference

Return an integer array answer, where answer = [i, j] if there are two such indices, and answer = [-1, -1] otherwise. If there are multiple choices for the two indices, return any of them.

Note: i and j may be equal.

#### **Example 1:**

Input: nums = [5,1,4,1], indexDifference = 2, valueDifference = 4
Output: [0,3]
Explanation: In this example, i = 0 and j = 3 can be selected.
abs(0 - 3) >= 2 and abs(nums[0] - nums[3]) >= 4.
Hence, a valid answer is [0,3].
[3,0] is also a valid answer.

#### Example 2:

Input: nums = [2,1], indexDifference = 0, valueDifference = 0
Output: [0,0]
Explanation: In this example, i = 0 and j = 0 can be selected.
abs(0 - 0) >= 0 and abs(nums[0] - nums[0]) >= 0.
Hence, a valid answer is [0,0].
Other valid answers are [0,1], [1,0], and [1,1].

#### Example 3:

Input: nums = [1,2,3], indexDifference = 2, valueDifference = 4
Output: [-1,-1]
Explanation: In this example, it can be shown that it is impossible to find two indices that satisfy both conditions.
Hence, [-1,-1] is returned.

### **Constraints:**

- 1 <= n == nums.length <=  $10^{5}$
- $0 <= nums[i] <= 10^9$
- 0 <= indexDifference <= 10<sup>5</sup>
- 0 <= valueDifference <= 10 9