Given a **0-indexed** integer array nums of size n, find the **maximum difference** between nums[i] and nums[j] (i.e., nums[j] - nums[i]), such that 0 <= i < j < n and nums[i] < nums[j].

Return *the****maximum difference****.*If no such i and j exists, return -1.

**Example 1:**

**Input:** nums = [7,**1**,**5**,4]

**Output:** 4

**Explanation:**

The maximum difference occurs with i = 1 and j = 2, nums[j] - nums[i] = 5 - 1 = 4.

Note that with i = 1 and j = 0, the difference nums[j] - nums[i] = 7 - 1 = 6, but i > j, so it is not valid.

**Example 2:**

**Input:** nums = [9,4,3,2]

**Output:** -1

**Explanation:**

There is no i and j such that i < j and nums[i] < nums[j].

**Example 3:**

**Input:** nums = [**1**,5,2,**10**]

**Output:** 9

**Explanation:**

The maximum difference occurs with i = 0 and j = 3, nums[j] - nums[i] = 10 - 1 = 9.

**Constraints:**

* n == nums.length
* 2 <= n <= 1000
* 1 <= nums[i] <= 109