Given an array of n integers nums, a **132 pattern** is a subsequence of three integers nums[i], nums[j] and nums[k] such that i < j < k and nums[i] < nums[k] < nums[j].

Return *true if there is a****132 pattern****in nums, otherwise, return false.*

**Follow up:**The O(n^2) is trivial, could you come up with the O(n logn) or the O(n) solution?

**Example 1:**

**Input:** nums = [1,2,3,4]

**Output:** false

**Explanation:** There is no 132 pattern in the sequence.

**Example 2:**

**Input:** nums = [3,1,4,2]

**Output:** true

**Explanation:** There is a 132 pattern in the sequence: [1, 4, 2].

**Example 3:**

**Input:** nums = [-1,3,2,0]

**Output:** true

**Explanation:** There are three 132 patterns in the sequence: [-1, 3, 2], [-1, 3, 0] and [-1, 2, 0].

**Constraints:**

* n == nums.length
* 1 <= n <= 104
* -109 <= nums[i] <= 109