Description Solution Discuss (468) Submissions

456. 132 Pattern

Medium 3401 194 Add to List Share

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`.*

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 <= 2 * 10^5`
- `-10^9 <= nums[i] <= 10^9`

Accepted 110,872 Submissions 357,974

Seen this question in a real interview before? Yes No

Java Autocomplete

```java
class Solution {
    public boolean find132pattern (int[] nums) {

        Stack <Integer> stack = new Stack ();

        int second = Integer.MIN_VALUE;

        for (int i = nums.length - 1; i >= 0; i--) {

            if (nums [i] < second)
                return true;

            while (!stack.isEmpty() && nums [i] > stack.peek ())
                second = stack.pop();

            stack.push(nums[i]);
        }

        return false;
    }
}
```

Testcase Run Code Result Debugger

Accepted Runtime: 0 ms

Your input `[1,2,3,4]`

Output `false` Diff

Expected `false`