153. Find Minimum in Rotated Sorted Array

Suppose an array of length n sorted in ascending order is rotated between 1 and n times. *For example, the array nums = [0,1,2,4,5,6,7] might become:*

- [4,5,6,7,0,1,2] if it was rotated 4 times.
- [0,1,2,4,5,6,7] if it was rotated 7 times.
- Notice that rotating an array [a[0], a[1], a[2], ..., a[n-1]] 1 time results in the array [a[n-1], a[0], a[1], a[2], ..., a[n-2]].
- Given the sorted rotated array nums of unique elements, return the minimum element of this array.
- You must write an algorithm that runs in O(log n) time.

Example 1:

- **Input:** nums = [3,4,5,1,2]
- **Output:** 1
- **Explanation:** The original array was [1,2,3,4,5] rotated 3 times.

Example 2:

- **Input:** nums = [4,5,6,7,0,1,2]
- **Output:** 0
- **Explanation:** The original array was [0,1,2,4,5,6,7] and it was rotated 4 times.

Example 3:

- **Input:** nums = [11,13,15,17]
- **Output:** 11
- **Explanation:** The original array was [11,13,15,17] and it was rotated 4 times.

Constraints:

- n == nums.length
- 1 <= n <= 5000
- -5000 <= nums[i] <= 5000
- All the integers of nums are unique.
- nums is sorted and rotated between 1 and n times.