You are given a sorted array consisting of only integers where every element appears exactly twice, except for one element which appears exactly once.

Return *the single element that appears only once*.

Your solution must run in O(log n) time and O(1) space.

**Example 1:**

Input: nums = [1,1,2,3,3,4,4,8,8]  
Output: 2

**Example 2:**

Input: nums = [3,3,7,7,10,11,11]  
Output: 10

**Constraints:**

* 1 <= nums.length <= 105
* 0 <= nums[i] <= 105