Given an unsorted integer array nums, return the smallest missing positive integer.

**Example 1:**

Input: nums = [1,2,0]

Output: 3

**Example 2:**

Input: nums = [3,4,-1,1]

Output: 2

**Example 3:**

Input: nums = [7,8,9,11,12]

Output: 1

**Constraints:**

1 <= nums.length <= 5 \* 105

-231 <= nums[i] <= 231 - 1