

Given an array `nums` of `n` integers where `nums[i]` is in the range `[1, n]`, return *an array of all the integers in the range `[1, n]` that do not appear in `nums`.*

**Example 1:**

**Input:** `nums = [4,3,2,7,8,2,3,1]`  
**Output:** `[5,6]`

**Example 2:**

**Input:** `nums = [1,1]`  
**Output:** `[2]`

**Constraints:**

- `n == nums.length`
- `1 <= n <= 105`
- `1 <= nums[i] <= n`

**Follow up:** Could you do it without extra space and in `O(n)` runtime? You may assume the returned list does not count as extra space.