

```

class Solution {
    public int firstMissingPositive(int[] nums) {
        boolean[] arr = new boolean[nums.length+2];
        for (int i : nums) {
            if (i <= nums.length+1 && i >= 1) {
                arr[i] = true;
            }
        }

        for (int i = 1; i < arr.length; i++) {
            if (!arr[i]) {
                return i;
            }
        }
        return -1;
    }
}

```

Given an unsorted integer array, find the smallest missing positive integer.

Example 1:

Input: [1,2,0]

Output: 3

Example 2:

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

Output: 2