# Find All Duplicates in an Array

Try to solve the Find All Duplicates in an Array problem.



#### **Statement**

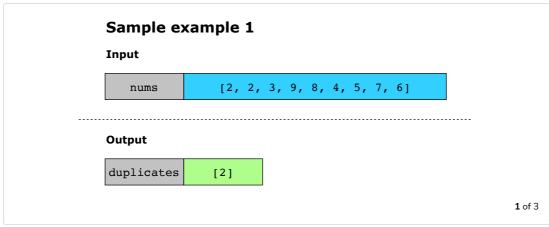
Given an integer array, nums, of length n, where all the integers of nums are in the range [1, n] and each integer appears once or twice, return an array of all the integers that appear twice.

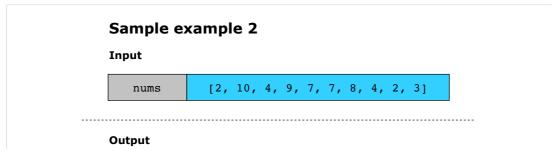
**Note:** Make sure to write an algorithm that runs in O(n) time and uses only constant extra space.

#### **Constraints:**

- $n == \mathsf{nums.length}$
- $1 \le n \le 10^5$
- $1 \leq \operatorname{nums}[i] \leq n$
- Each element in nums appears once or twice.

### **Examples**

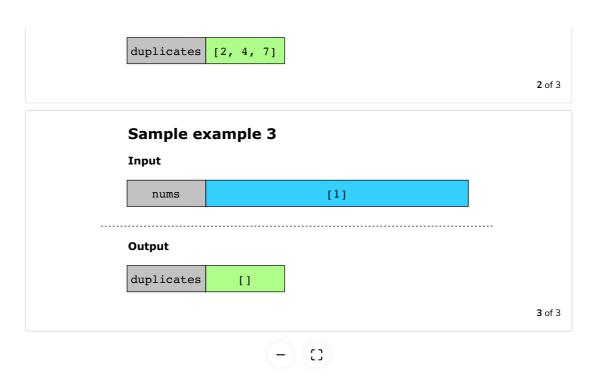




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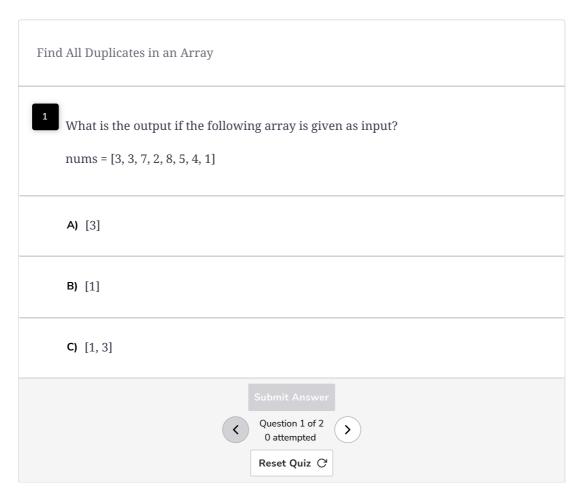
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#### Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



# Try it yourself

Implement your solution in the following coding playground:



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