

Find All Duplicates in an Array

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

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Try it yourself

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:

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

Examples

Sample example 1

Input

nums	[2, 2, 3, 9, 8, 4, 5, 7, 6]
------	-----------------------------

Output

duplicates	[2]
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1 of 3

Sample example 2

Input

nums	[2, 10, 4, 9, 7, 7, 8, 4, 2, 3]
------	---------------------------------

Output



duplicates [2, 4, 7]

2 of 3

Sample example 3

Input

nums [1]

Output

duplicates []

3 of 3

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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:

Find All Duplicates in an Array

1

What is the output if the following array is given as input?

nums = [3, 3, 7, 2, 8, 5, 4, 1]

A) [3]

B) [1]

C) [1, 3]

Submit Answer

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Question 1 of 2
0 attempted

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Reset Quiz ↻

Try it yourself

Implement your solution in the following coding playground:

Java

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usercode > FindDuplicates.java


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```
1 import java.util.*;
2
3 public class FindDuplicates{
```

```
4 // write your code here
5
6
7     return new ArrayList<>();
8
9 }
10 }
```

 Powered by AI



Submit

Test Cases

Results

Case 1

Case 2

Case 3

Input #1

[4,3,2,7,8,2,3,1]

Find All Duplicates in an Array

 Hide Hint

You might want to go over the [Cyclic Sort](#) pattern again.

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Next 

Find All Numbers Disa...

Same Tree

☒ Mark as
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