

## 442. Find All Duplicates in an Array

Medium 2776 162 Add to List Share

Given an array of integers,  $1 \leq a[i] \leq n$  ( $n$  = size of array), some elements appear **twice** and others appear **once**.

Find all the elements that appear **twice** in this array.

Could you do it without extra space and in  $O(n)$  runtime?

### Example:

**Input:**  
[4,3,2,7,8,2,3,1]

**Output:**  
[2,3]

Accepted 226,711 | Submissions 333,171

Seen this question in a real interview before? 

Yes

No

Companies

Related Topics

Similar Questions

```
1 class Solution {
2     public List<Integer> findDuplicates(int[] a) {
3         List<Integer> result = new ArrayList<Integer>();
4
5         for (int i = 0; i < a.length; i++) {
6             for (int j = i + 1; j < a.length; j++) {
7                 if (a[i] == a[j]) {
8                     result.add(a[i]);
9                     break;
10                }
11            }
12        }
13
14        return result;
15    }
16 }
17 }
```

Your previous code was restored from your local storage. [Reset to default](#)