**TASK:**

**Problem: Find All Duplicates in an Array**

**Instructions: Given an array of integers, find all the elements that appear twice in the array and return them.**

**Example Test Case:**

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

**Output: [2, 3]**

**ANSWER:**

**seen = set()**

**duplicates = []**

**for num in nums:**

**if num in seen:**

**duplicates.append(num)**

**else:**

**seen.add(num)**

**return duplicates**