

### **347. Top K Frequent Elements**

Given an integer array `nums` and an integer `k`, return the `k` most frequent elements. You may return the answer in any order.

#### **Example 1:**

- **Input:** `nums = [1,1,1,2,2,3]`, `k = 2`
- **Output:** `[1,2]`

#### **Example 2:**

- **Input:** `nums = [1]`, `k = 1`
- **Output:** `[1]`

#### **Constraints:**

- $1 \leq \text{nums.length} \leq 10^5$
- $-10^4 \leq \text{nums}[i] \leq 10^4$
- `k` is in the range `[1, the number of unique elements in the array]`.
- It is guaranteed that the answer is unique.

**Follow up:** Your algorithm's time complexity must be better than  $O(n \log n)$ , where `n` is the array's size.