Given a non-empty array of integers, return the ***k*** most frequent elements.

**Example 1:**

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

**Output:** [1,2]

**Example 2:**

**Input:** nums = [1], k = 1

**Output:** [1]

**Note:**

* You may assume *k* is always valid, 1 ≤ *k* ≤ number of unique elements.
* Your algorithm's time complexity **must be** better than O(*n* log *n*), where *n* is the array's size.