

215. Kth Largest Element in an Array

Given an integer array `nums` and an integer `k`, return the `k`th largest element in the array.

Note that it is the `k`th largest element in the sorted order, not the `k`th distinct element.

Can you solve it without sorting?

Example 1:

- **Input:** `nums = [3,2,1,5,6,4]`, `k = 2`
- **Output:** 5

Example 2:

- **Input:** `nums = [3,2,3,1,2,4,5,5,6]`, `k = 4`
- **Output:** 4

Constraints:

- $1 \leq k \leq \text{nums.length} \leq 10^5$
- $-10^4 \leq \text{nums}[i] \leq 10^4$