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.

You must solve it in O(n) time complexity.

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 <= k <= nums.length <= 10^5
- -10^4 <= nums[i] <= 10^4