**Challenge 11.1: Kth element**

Find the ****k****th largest element in an unsorted array. Note that it is the kth largest element in the sorted order, not the kth distinct element.

**Example 1:**

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| **INPUT: 6**  **3 2 1 5 6 4 and k=2**  **OUTPUT: 5** |

**Example 1:**

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| **INPUT: 9**  **3 2 3 1 2 4 5 5 6 and k=4**  **OUTPUT: 4** |

**NOTE:** You need to solve it without using any sorting algorithm, solve it in time complexity less than O(n logn)