

Kth Largest Element in an Array

Try to solve the Kth Largest Element in an Array problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

Statement

Find the k^{th} largest element in an unsorted array.

Note: We need to find the k^{th} largest element in the sorted order, not the k^{th} distinct element.

Constraints:

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

Examples

Sample example 1
Input

k = 6

6

8

7

5

9

4

2

3

Output

Output

4

1 of 4



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Kth Largest Element in an Array



1

What is the 4th largest element in the following unsorted array?

[5, 12, 9, 0, 6, 7, 1, 8, 4, 9]

A) 9

B) 7

C) 8

D) 6

Submit Answer



Question 1 of 4
0 attempted



Reset Quiz ↺

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.



Drag and drop the cards to rearrange them in the correct sequence.

Insert the first k numbers into
the min-heap.

Iterate the complete array.

If any number is greater than
the root, take the root out and
insert the greater number.

After iterating all of the
numbers, return the root
number as the 4th largest
element.

Reset

Show Solution

Submit



Try it yourself

Implement your solution in the following coding playground:

usercode > KthLargestElement.java

```
1 import java.util.*;
2 public class KthLargestElement{
3     public static int findKthLargest(int[] arr, int k) {
4
5         // Your code will replace this placeholder return statement
6
7         return -1;
8     }
9 }
```

Powered by AI

▶

Submit

Test Cases

Results

Case 1

Case 2

Case 3

Input #1

[-1,-5,-9,-11,-5,-10,-3,-4,-1,-12,-13,-8]

Input #2

7

Kth Largest Element in an Array

← Back

Next →

Solution: Top K Freque...

Solution: Kth Largest ...

☒ Mark as Completed

?

Tt

🌙