75 Days of Code

**Day 49** 

Problem no : 215.

**Problem Title :Kth Largest Element in an Array** 

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

Note that it is the kth largest element in the sorted order, not the kth 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

```
function findKthLargest(nums: number[], k: number): number {
    const quickSort = (arr:number[]):number[]=>{
        if(arr.length<=1){</pre>
            return arr;
        const pivot = arr[Math.floor(Math.random()*arr.length)];
        const left =[];
        const right =[];
        const equal =[];
        for(const num of arr){
            if(num<pivot){</pre>
                left.push(num)
            }else if(num>pivot){
                right.push(num)
            }else{
                equal.push(num);
        if(k<=right.length){</pre>
            return quickSort(right);
        else if(k<= right.length + equal.length){</pre>
            return equal;
            k-= (right.length+equal.length);
            return quickSort(left);
   const sorted = quickSort(nums);
   return sorted[sorted.length-1];
```

