The deadline to solve the problems is 3 Days (12th Oct 2022) EOD
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Subject: Assignment 8 Solutions - Javascript/ Python/ Java/ C#

1. **Kth smallest element [Amazon]**
   Given an array of n-elements and an integer k, find the kth smallest element present in an array.
   For example:
   arr = [40, 25, 68, 79, 52, 66, 89, 97]
   k = 2
   result = 40

2. **Sort Colors [Amazon]**
   Given array nums with n objects colored red, white, or blue, sort them in place so that the objects of the same color are adjacent, with the colors in the order red, white, and blue.
   We will use the integers 0, 1, and 2 to represent the color red, white, and blue respectively.
   Solve this question without using the library sort function.
   For example:
   Nums = [2,0,2,1,1,0]
   Result = [0,0,1,1,2,2]

3. Kth Largest Element in an array [Facebook]
   Given an integer array nums and an integer k, return the kth largest element present in an array.
   For example:
   arr = [40, 25, 68, 79, 52, 66, 89, 97]
   k = 2
   result = 89

4. Majority Element [Amazon, Google]
   Given array nums of size n, return the majority element present in the array.
   Assume that the majority element always exists in an array.
   For example:
   Nums = [2, 2, 1, 1, 1, 2, ,2]
   Output: 2

5. Find of peak element [Facebook]
   The peak element is the element that is strictly greater than its neighbors. If an array contains multiple peak elements, return the index of any of the peak elements.
   For example: [1,2,3,1]
   Output: 2