Answer to the Question No. 5

a. Kth Largest Element in an Array using Divide & Conquer Approach:

```
def kth_largest(nums, k):
  k_index = len(nums) - k

  def quickselect(left, right):
    pivot = nums[right]
    p = left
    for i in range(left, right):
      if nums[i] <= pivot:
        nums[i], nums[p] = nums[p], nums[i]
        p += 1

    nums[p], nums[right] = nums[right], nums[p]

    if p == k_index:
      return nums[p]
    elif p < k_index:
      return quickselect(p + 1, right)
    else:
      return quickselect(left, p-1)

  return quickselect(0, len(nums) - 1)


print(kth_largest([18, 8, 3, 2, 1, 5, 6, 12, 4, 7, 10, 14, 16, 17], 6))
```

Solution:
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