LeetCode Bootcamp Week 6 Submission Submitted By: Raunak Choudhary (NetID: rc5553)

Question1: Lowest Common Ancestor of a Binary Tree

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Code:

class Solution(object):
  def lowestCommonAncestor(self, root, p, q):
    if not root or root == p or root == q:
       return root

left = self.lowestCommonAncestor(root.left, p, q)
    right = self.lowestCommonAncestor(root.right, p, q)

if left and right:
    return root
```

Question2: Top K Frequent Elements

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Code:
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class Solution(object):
    def topKFrequent(self, nums, k):
        count = {}
    for num in nums:
        count[num] = count.get(num, 0) + 1

    bucket = [[] for _ in range(len(nums) + 1)]
    for num, freq in count.items():
        bucket[freq].append(num)

result = []
    for i in range(len(bucket) - 1, 0, -1):
        if bucket[i]:
            result.extend(bucket[i])
        if len(result) >= k:
            return result[:k]
```

Question 3: Word Break

Unable to solve this problem due to not having a LeetCode Premium Account.