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Batch 1

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#Problem 3

def LongestConsecutiveSequence(l):
    l.sort()
    longest=0
    count=1
    for i in range(len(l)-1):
        if (l[i]+1)==(l[i+1]):
            count+=1
        else:
            longest=max(longest,count)
            count=1
    return max(longest,count)
l=[100, 4, 200, 1, 3, 2]
print(LongestConsecutiveSequence(l))


#Problem 4
def anagram(l):
    anagram={}
    for i in l:
        a="".join(sorted(i))
        if a not in anagram:
            anagram[a]=[i]
        else:
            anagram[a].append(i)

    return list(anagram.values())

l=['eat','tea','tan','ate','nat','bat']
print(anagram(l))
```