1.0.0.14. Question 14 (15 Points)

Write a Python function `q14_output` that takes a list as a parameter. The function must return a lists of sublists where each contains a combination of the elements of the list. Overall, your returned list must contain sublists that contain *every single combination* of elements in the argument list.

```
combos = q14_output ([1, 2, 3, 4])

print (combos)
```

```
[[], [1], [2], [2, 1], [3], [3, 1], [3, 2], [3, 2, 1], [4], [4, 1], [4, 2], [4, 2, 1], [4, 3], [4, 3, 1], [4, 3, 2], [4,
3, 2, 1]]
```

Note that the empty list is included and that ordering of numbers in the sublists must always be lagest to smallest and generally follow the pattern illustrated above.

[32]:
```
# Write your solution here

def q14_output(colors):

    # YOUR CODE HERE
    l1=[[]]
    for i in colors:
        l2=[]
        for k in l1:
            l2.append([i]+k)
        l1.extend(l2)
    return l1
```

[33]:
```
# Testing Cell (Do NOT modify this cell)
```