You have 20 minutes to complete this quiz.

1. Write down the output produced (via the print statement) when the function given below is called as

generalQuickSort([4, 9, 10, 2, 1, 1, 7], 0, 6)

```
def partition(L, first, last):
    p = first
    for current in range(p+1, last+1):
        if L[current] < L[p]:
            swap(L, current, p+1)
            swap(L, p, p+1)
            p = p + 1
    return p
def generalQuickSort(L, first, last):
    if first < last:
        p = partition(L, first, last)
        generalQuickSort(L, first, p-1)
        print L[first:p], L[p], L[p+1:last+1]
        generalQuickSort(L, p+1, last)
```

2. Write down a length-7 list of positive integers that causes partition to split the list into exactly two halves each time partition is called as part of the call to generalQuickSort on this list. In other words, the first time partition is called, it is called on a length-7 list, and it should split the list into two sublists of size 3 each. Subsequently, partition will be called on two length-3 lists. In each case, partition should split the given length-3 list into two length-1 lists.