

## 22C:16 (CS:1210) Quiz 11

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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, 1, 2, 13, 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.

3. How many times is the `swap` function called (from `partition`) as a result of the call `generalQuickSort([6, 5, 4, 3, 2, 1], 0, 5)`