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

You have 15 minutes to complete this quiz.

1. Consider the recursive implementation of the function fibo. What output does the function produce, if we execute the function call fibo(6)?
```
def fibo(n):
    # Base cases
    if n == 1 or n == 2:
        return 1
    # Recursive case
    else:
        answer1 = fibo(n-1)
        answer2 = fibo(n-2)
        print n
        return answer1 + answer2
```

2. Consider the recursive function binarySearch given below. Let $L$ be the list [3, 15, $16,21,100,103,160,178,200]$. What output would the function produce if we executed the function call binarySearch (L, 155, 0, 8)? Also, write down the sequence of numbers that 155 is compared with during the course of the function execution.
```
def binarySearch(L, k, left, right):
    print left, right
    if left > right:
            return -1
        mid = (left + right)/2 # index of the middle element
        if L[mid] == k:
            return mid
        elif L[mid] < k:
        return binarySearch(L, k, mid+1, right)
        elif L[mid] > k:
            return binarySearch(L, k, left, mid-1)
```

