

Northern Michigan University (Marquette Co, MI)

CS345-01-23W: Android Programming (Andrew A. Poe)
Quiz 2

Name: _____
Friday 3 February 2023 1:00 P.M. EST

Time: 15 minutes

Given the Kotlin class definitions below for a linked list and a linked list node:

```
class LL {
    var head:LLN? = null
}

class LLN (i:Int,n:LLN?) {
    var num = i
    var next = n
}
```

Write code for the PrintLargest() methods in LL and LLN. If I have a linked list declared as:

```
var list = LL()
```

list.PrintLargest() should cause the largest number in the list to be printed.

Do not use loops; use recursion only.

```
LL:
    fun PrintLargest() {
        head?.PrintLargest (head!!.num)
    }

LLN:
    fun PrintLargest (i:Int) {
        var lrg = i
        if (num > lrg) lrg = num
        if (next==null) println (lrg)
        else next!!.PrintLargest (lrg)
    }
```