## Week 5 lab Noah Buchanan, Adrian Cuevas

July 3, 2020

## 1 UALabList class

```
public class UALabList {
        UANumber head;
        public void insert(UANumber s) {
                if (head == null) {
                        head = s;
                } else {
                        if (s.x \le head.x) {
                                 UANumber i = head;
                                 while(i.next != null && s.x <= i.next.x) {</pre>
                                         i = i.next;
                                 if(i.next == null) {
                                         s.prev = i;
                                         i.next = s;
                                 } else {
                                         s.prev = i;
                                         s.next = i.next;
                                         i.next.prev = s;
```

## 2 UANumber class

```
public class UANumber {
    int x;
    UANumber next;
    UANumber prev;

    public UANumber(int x) {
        this.x = x;
    }
}
```