CSC 212 Homework # 2 Solution to Selected Problems Lists & Queues

Problem 1

```
1.
  public static <T> void moveBack(Listr<T> 1, int p) {
           int curToEnd = 0;
           while (!1.last()) {
                   curToEnd++;
                   1.findNext();
           }
           l.findFirst();
           int headToEnd = 0;
           while (!1.last()) {
                   headToEnd++;
                   1.findNext();
           }
           l.findFirst();
           int headToP = headToEnd - (p + curToEnd);
           for(int i = 0; i < headToP; i++) {</pre>
                   1.findNext();
           }
```

Problem 2

```
public void removeK (int k) {
        Node<T> p = current;
        for (int i = 0; i < k; i++) {
            p = p.next;
        }
        current.next = p.next ;
}</pre>
```

Problem 3

```
public int direction(T e) {
        if (current.data.equals(e))
                 retrun 0;
        Node < T > tmp = current.prev;
        while (tmp != null) {
                 if (tmp.data.equals(e))
                         return -1;
                 tmp = tmp.prev;
        }
        tmp = current.next;
        while (tmp != null) {
                 if (tmp.data.equals(e))
                         return 1;
                tmp = tmp.next;
        }
        return 0;
}
```

2.

Problem 4

2.

Problem 5 [Priority queue]

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