Let x and L be LinkedList Nodes.

Analyzing append

```
1  append(x, L) {
2     Node curr = L;
3     while (curr != null && curr.next != null) {
4        curr = curr.next;
5     }
6     curr.next = x;
7  }
```

LinkedList Reversal

```
1  reverse(L) {
2     if (L == null) {
3        return null;
4     }
5     else {
6        Node front = L;
7        Node rest = L.next;
8        L.next = null;
9
10       Node restReversed = reverse(rest);
11       append(front, restReversed);
12    }
13 }
```

```java
int sum(int[] arr){
    return help(arr,0,arr.length);
}
int help(int[] arr, int lo, int hi) {
    if(lo==hi)    return 0;
    if(lo==hi-1) return arr[lo];
    int mid = (hi+lo)/2;
    return help(arr,lo,mid) + help(arr,mid,hi);
}
```