Algorithm Remove all duplicates from a sorted list

Ensure: You should delete **All** copies of the duplicate elements

1: **function** REMOVE_DUPLICATES($head$)
2:     **if** List is of length 0 *or* 1 **then**
3:         **return** $head$

    ▷ If the first element is repeated, go to its last copy
4:     **if** $head.data == head.next.data$ **then**
5:         **while** $head.next$ **exists** *and* $head.data == head.next.data$ **do**
6:             $head \leftarrow head.next$
7:         **return** $Remove\_Duplicates(head.next)$ ▷ Head points to the last copy
8:     **else**
9:         $clean\_sub\_list \leftarrow Remove\_Duplicates(head.next)$
10:         $head.next \leftarrow clean\_sub\_list$ ▷ First element is not repeated, hence no effect
11:         **return** $head$