Algorithms and Data Structures Homework 7

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Problem 2.a

 $\mathbf{return} \,\, \mathrm{prev} \,\,$

Algorithm 1 Reversing the linked list

```
0: procedure REVERSELIST(list)
     if list is NULL then
       return list
0:
     end if
0:
  Assume type Node
     Node *next \leftarrow NULL
0:
     Node *prev \leftarrow NULL
0:
     Node *current \leftarrow list
0:
     while current is not NULL do
0:
0:
       next \leftarrow (current - > next)
       (current - > next) \leftarrow prev
0:
       prev gets current
0:
       current gets next
     end while
```