

## LIST-SEARCH' ( $L, k$ )

```
1   $L.nil.key = k$            // store the key in the sentinel to guarantee it is in list
2   $x = L.nil.next$           // start at the head of the list
3  while  $x.key \neq k$ 
4       $x = x.next$ 
5  if  $x == L.nil$            // found  $k$  in the sentinel
6      return NIL           //  $k$  was not really in the list
7  else return  $x$           // found  $k$  in element  $x$ 
```