nth-element.

Exercise 1.6

If we check whether n = 0 before determining that *lst* is not empty, then we might take the car or cdr of an empty list in the recursive call.

Exercise 1.7

```
(define informative-report-list-too-short
  (lambda (lst n)
    (eopl:error 'nth-element
                "~s does not have ~s elements.~%"
                lst
                (+ n 1)))
(define nth-element
  (lambda (lst n)
    (define it.er
      (lambda (l m)
        (if (null? 1)
            (informative-report-list-too-short lst n)
            (if (zero? m)
                (car 1)
                (iter (cdr l) (- m 1))))))
    (iter lst n)))
```

Exercise 1.8

remove-first

```
remove-first : Sym \times Listof(Sym) \rightarrow Listof(Sym)
```

usage: (remove-first s los) returns a list with the elements of los arranged in the same order, except that all of the elements before and including the first occurrence of s are removed.

Exercise 1.9