

<

Previous

Next >

Questions 3-4

Bookmark this page

Question 3

1/1 point (graded)

You start the process of adding an accumulator. Here is what you have so far:

```
(define (number-list lon0)
  ;; acc: Natural; 1-based position of (first lon) in lon
  (local [(define (number-list lon acc)
    (cond [(empty? lon) (...)]
          [else
           (... (first lon)
                (number-list (rest lon)))]))]
    (number-list lon0)))
```

Which of the following are valid examples for the accumulator?

- ☐ ;; (number-list (list "first" "second" "third") "1: ")
- ☒ ;; (number-list (list "first" "second" "third") 1)
- ☒ ;; (number-list (list "second" "third") 2)
- ☐ ;; (number-list (list "1: first" "second" "third") "2: ")
- ☐ ;; (number-list empty 0)
- ☒ ;; (number-list (list "third") 3)



Explanation

The accumulator should be a Natural, and it should be the position of the first element of the current list in the original list.

Submit


Show Answer

Answers are displayed within the problem

Question 4

1/1 point (graded)

In adding the accumulator paramater, we have missed a spot where it should be added. Click to move the green dot to the location of the missing accumulator paramater.

```
(define (number-list lon0)
  ;; acc: Natural; 1-based position of (first lon) in lon
  (local [(define (number-list lon acc)
    (cond [(empty? lon) (... acc)]
          [else
           (... (first lon)
                (number-list (rest lon)
                              (... acc)))]))]
    (number-list lon0 ...)))
```



Explanation

We need to add `acc` at all of the `...`s, as well as adding an extra paramater to every call of `number-list`.

Submit

Show Answer

Answers are displayed within the problem

<

Previous

Next >



edX

[About](#)
[edX for Business](#)

Legal

[Terms of Service &
Honor Code](#)
[Privacy Policy](#)
[Accessibility Policy](#)

Connect

[Blog](#)
[Contact Us](#)
[Help Center](#)



© 2020 edX Inc. All rights reserved.
| 深圳市恒宇博科技有限公司 粤ICP备17044299
号-2