```
; • CSC104 Winter 2020 — Exercise #5 — Print out and fill in by hand, then hand in to the TA at the start of your quiz. •
 ; UTorID (login ID):
        Surname:
      Given Name:
; Assume the following three definitions ...
(define list.A (list 1 (list (list 2 3) 4 5) (list) (list 6 (list 7 8))))
(define list.B (list (list 1 (list) 2 (list 3)) 4 (list (list 5 6 7) 8)))
(define list.C (list (list (list 1) (list 2 3) (list)) (list 4 5) (list (list 6 7)) 8))
; Here's the literal for list A again, but with a box drawn around each element : (list 1 [(list (list 2 3) 4 5)]
                                                                                                         (list 6 (list 7 8))
; Write out the literals for list.B and list.C again, with a box drawn around each element ...
; Here's a simple assertion, using the literal expression for the value of list. A again, but reformatted so that each element of each list is on its own line ...
(same! list.A (list 1
                      (list (list 2
                           Assignment Project Exam Help
                      (list 6
                             (list 7
                           button does in Director, if you dict at the beginning of the list literal and then click that button in the toolbar.
; Do that for the literal expressions for list.B and list.C ...
                                       Add WeChat powcoder
 (same! list.B
; Beside each of the following expressions show its value ...
(length list.A)
(length list.B)
(length list.C)
(length (list list.A list.B list.C))
```

(map length (list list.A list.B list.C))

```
; Beside each of the following expressions show its value ...

(reverse list.A)

(reverse list.B)

(reverse list.C)

; Show, with standard underlining, the steps for: | (step (map reverse (rest (list 1 (list (list 2 3) 4 5) (list) (list 6 (list 7 8))))))

; Assume the following definition has been entered/run ... | (define (maybe-length v) (if (list? v) (length v) else __)); that "_" is an image, from (solid-rectangle 8 1); ... then show the steps, with standard underlining, for ... (step (maybe-length "coffee"))
```

Assignment Project Exam Help https://powcoder.com Add WeChat powcoder

(step (maybe-length (list "coffee" "tea" "water")))

 $(step\ (hide\ maybe-length)\ (map\ maybe-length\ (list\ "coffee"\ "tea"\ "water")))$

```
(step (hide maybe-length) (map maybe-length (list 1 (list (list 2 3) 4 5) (list) (list 6 (list 7 8)))))
```

(step (hide maybe-length) (map maybe-length (list 1 (list 2 (list 3)) 4 (list (list 5 6 7) 8))))

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder

(step (hide maybe-length) (map maybe-length (list (list 1) (list 2 3) (list)) (list 4 5) (list (list 6 7)) 8)))