

Questions 4-6

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Question 4

1/1 point (graded)

```
;; ListOfNumber -> Boolean
;; produce true if lon contains a negative number
(check-expect (contains-negative? empty) false)
(check-expect (contains-negative? (cons 1 empty)) false)
(check-expect (contains-negative? (cons -1.5 empty)) true)
```

Now let's work on the body by filling in blanks (1), (2) and (3) in the next three questions.

```
(define (fn-for-lon lon)
  (cond [(empty? lon) (...)]
        [else
         (... (first lon)
              (fn-for-lon (rest lon)))]))
```

➔

```
(define (fn-for-lon lon)
  (cond [(empty? lon) 1]
        [else
         (if (2 (first lon))
             true
             (3 (fn-for-lon (rest lon))))]))
```

(1) What should in the first answer position (underlined in red)?

☐ empty

☐ true

☒ false




Explanation

The first test tells us that base base case result should be false, which makes sense, because if there are no elements in the list, there are no negative elements.

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Question 5

1/1 point (graded)

(2) What should we use to check if the first element of lon is negative (underlined in purple)?

☐ positive?

☒ negative?

☐ contains-negative?




Explanation

From the help desk, `negative?` determines if some value is strictly smaller than zero.

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Question 6

1/1 point (graded)

(3) What function should we use in place of `fn-for-lon` (underlined in green)?

☐ We need to design a new function

☐ positive?

☐ negative?



contains-negative?



Explanation

We want a function that consumes a `ListOfNumber` and produces true if it contains a negative number, which is exactly what `contains-negative?` does.

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