

Questions 1-3

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Consider the following Data Definition for ListOfNumber:

```
;; ListOfNumber is one of:  
;; - empty  
;; (cons Number ListOfNumber  
;; interp. a list of numbers  
(define LON1 empty)  
(define LON2 (cons 1 empty))  
(define LON3 (cons 2 (cons 1 empty)))  
#;  
(define (fn-for-lon lon)  
  (cond [(empty? lon) (...)]  
        [else  
         (... (first lon)  
              (fn-for-lon (rest lon)))]))  
  
;; Template Rules Used:  
;; - one of: 2 cases  
;; - atomic distinct: empty  
;; - compound: (cons Number ListOfNumber)  
;; - [coming soon]
```

We would like to design a function that consumes a list of numbers and produces true if that list contains a negative number.

Questions 1

1/1 point (graded)

Here is the signature and purpose for the function that produces true if the list contains a negative number.

```
;; ListOfNumber -> Boolean  
;; produce true if a lon contains a negative number
```

What is the result of the following tests?

```
(check-expect (contains-negative? (cons 1 empty)) ____)
```

false


✔ Answer: false

Explanation

The list has only 1 element and it is positive.

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Question 2

1/1 point (graded)

```
(check-expect (contains-negative? (cons 1 (cons -1.5 empty))) ____)
```

true

✔ Answer: true

Explanation

The second element of the list is negative.

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Question 3

1/1 point (graded)

```
(check-expect (contains-negative? empty) ____)
```

false

✔ Answer: false

Explanation

The list is empty, so it contains no negative numbers.

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