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Questions 1-2

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From the previous section, we have the following:

```
;; ListOfNumber -> ListOfNumber
;; produce list with only postivie? elements of lon
(check-expect (positive-only empty) empty)
(check-expect (positive-only (list 1 -2 3 -4)) (list 1 3))
; (define (positive-only lon) empty) ; stub
(define (positive-only lon)
  (filter2 positive? lon))
;; ListOfNumber -> ListOfNumber
;; produce list with only negative? elements of lon % \left\{ 1,2,...,n\right\}
(check-expect (negative-only empty) empty)
(check-expect (negative-only (list 1 -2 3 -4)) (list -2 -4))
;(define (negative-only lon) empty) ;stub
(define (negative-only lon)
  (filter2 negative? lon))
(define (filter2 p lon)
  (cond [(empyt? lon) empty]
        [else
         (if (p (first lon))
             (cons (first lon)
                   (filter2 p (rest lon)))
             (filter2 p (rest lon)))]))
```

We will continue working on the design of this abstract function by completing the purpose and <code>check-expects</code> for <code>filter2</code>.

Question 1

1/1 point (graded)

Select all correct check-expects that for filter2:

- ☐ (check-expect (filter2 empty) empty)
- ${f f ec f ec }$ (check-expect (filter2 positive? empty) empty)
- \square (check-expect (negative-only (list 1 -5 5 -1)) (list -5 -1))
- $\overline{\mathbf{C}}$ (check-expect (filter2 negative? (list 1 -5 5 -1)) (list -5 -1))
- \square (check-expect (positive-only (list 1 -5 5 -1)) (list 1 5))



Explanation

(check-expect (filter2 empty) empty) is missing a parameter.

The check-expects for negative-only and positive-only belong with those functions, not with filter2.

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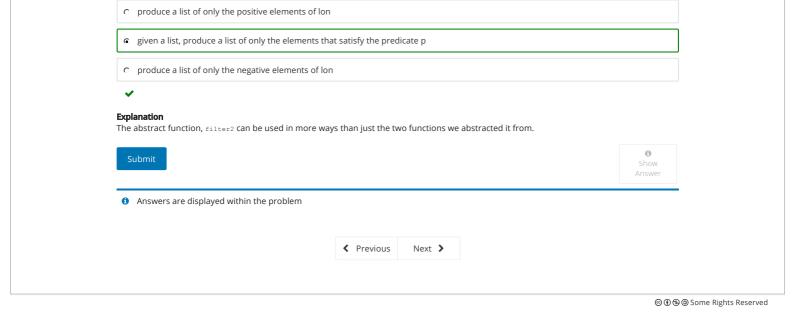
Show Answer

Answers are displayed within the problem

Question 2

1/1 point (graded)

Select the best purpose for filter2?





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