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Questions 2-6

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Question 2

1/1 point (graded)

Suppose you want to design a function that consumes `(listof Image)` and rotates each image by 90 degrees.

Which built-in abstract function(s) will you use to code the body?

☐ `filter`

☒ `map`

☐ `build-list`

☐ `foldr`

☐ `andmap`

☐ `ormap`



Explanation

```
(define (rotate-all loi)
  (map rotate-90 loi))

(define (rotate-90 i)
  (rotate 90 i))
```

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Question 3

1/1 point (graded)

Suppose you want to design a function that consumes `(listof String)` and combines each string in the list to create a single string.

Which built-in abstract function(s) will you use to code the body?

☐ `filter`

☐ `map`

☐ `build-list`

☒ `foldr`

☐ `andmap`

☐ `ormap`



Explanation

```
(define (combine-los los)
  (foldr string-append "" los))
```

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Question 4

1/1 point (graded)

Suppose you want to design a function that consumes `(listof String)` produces a list of the short strings. Assume short here means less than 10 characters long.

Which built-in abstract function(s) will you use to code the body?

☒ `filter`

☐ `map`

☐ `build-list`

☐ `foldr`

☐ `andmap`

☐ `ormap`



Explanation

```
(define (short-los los)
  (filter short? los))

(define (short? s)
  (< (string-length s) 10))
```

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Question 5

1/1 point (graded)

Suppose you want to design a function that consumes a natural number, `n`, and produces a list of even numbers up to `n`.

Which built-in abstract function(s) will you use to code the body?

☒ `filter`

☐ `map`

☒ `build-list`

☐ `foldr`

☐ `andmap`

☐ `ormap`



Explanation

```
(define (even-to n)
  (filter even? (build-list n identity)))
```

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Question 6

1/1 point (graded)

Suppose you want to design a function that consumes `(listof Number)` and produces `true` if the list contains a negative number.

Which built-in abstract function(s) will you use to code the body?

☐ `filter`

☐ `map`

☐ `build-list`

☐ `foldr`

☐ `andmap`

☒ `ormap`




Explanation

```
(define (contains-negative? lon)
  (ormap negative? lon))
```

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