

Started on

Thursday, 22 September 2022, 10:50 AM

State

Finished

Completed on

Thursday, 22 September 2022, 11:00 AM

Time taken

10 mins

Grade

9.00 out of 10.00 (90%)

Question 1

Correct

Mark 6.00 out of 6.00

Match each of the following expressions with their corresponding value.

<code>(foldl (lambda (x z) x) 0 '(1 2 3 4))</code>	4	✓
<code>(foldl + 0 '(1 2 3 4 5))</code>	15	✓
<code>(foldl (lambda (x z) (cons x '())) 0 '(1 2 3 4))</code>	'(4)	✓
<code>(map (lambda (x) (apply + x)) '((1 2) (3 4 5)))</code>	'(3 12)	✓
<code>(apply append (map reverse '((1 2) (3 4 5))))</code>	'(2 1 5 4 3)	✓
<code>(foldl append '() '((1 2) (3 4 5)))</code>	'(3 4 5 1 2)	✓
<code>(apply + (filter even? '(1 2 3 4 5)))</code>	6	✓
<code>(apply + (map length '((1 2) (3 4 5))))</code>	5	✓

Your answer is correct.

The correct answer is: `(foldl (lambda (x z) x) 0 '(1 2 3 4)) → 4`, `(foldl + 0 '(1 2 3 4 5)) → 15`, `(foldl (lambda (x z) (cons x '())) 0 '(1 2 3 4)) → '(4)`, `(map (lambda (x) (apply + x)) '((1 2) (3 4 5))) → '(3 12)`, `(apply append (map reverse '((1 2) (3 4 5)))) → '(2 1 5 4 3)`, `(foldl append '() '((1 2) (3 4 5))) → '(3 4 5 1 2)`, `(apply + (filter even? '(1 2 3 4 5))) → 6`, `(apply + (map length '((1 2) (3 4 5)))) → 5`

Question 2

Partially correct

Mark 3.00 out of 4.00

Which of the following identifiers are not regular functions, but special forms (macros)?

Select one or more:

- ☐ a. `reverse`
- ☐ b. `cond`
- ☐ c. `ormap`
- ☒ d. `and` ✓
- ☐ e. `else`
- ☒ f. `or` ✓
- ☐ g. `length`
- ☐ h. `filter`
- ☐ i. `foldl`
- ☒ j. `define` ✓
- ☐ k. `andmap`
- ☐ l. `map`
- ☐ m. `+`

Your answer is partially correct.

You have correctly selected 3.

The correct answers are: `or`, `and`, `cond`, `define`