New submission for: Quiz 6

Due: 11/06/2020 @ 04:19 PM EST

Honor Pledge

On my honor, I have neither given nor received any unauthorized aid on this quiz.

By typing your first and last name in the space provided below you are electronically signing to indicate that:

(1) You are the person who is taking this quiz.
(2) You read and understood the Honor Pledge and you agree to be bound by it.

Write your answer below:

Xinhao Luo

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Questions 1 and 2 below refer to the Pascal-like program:

```
x : integer := 1

procedure print_routine(i : integer)
   write_integer(i+x)

procedure A(n : integer, P : procedure)
   if n < 100
     B(n+1, P)
   else
     P(n)

procedure B(m : integer, P : procedure)
   x : integer := 0
   A(m, P)

/* begin of main */
A(0, print_routine)
/* end of main */
```

Question 1. (2pts) What gets printed under *dynamic scoping with shallow binding*? Enter just one number on a single line in the first line of the text area below with no whitespace.

Write your answer below:

Press TAB to indent. Press ESC to advance from answer area.

100

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Question 2. (2pts) What gets printed under *dynamic scoping with deep binding*? Enter just one number on a single line in the first line of the text area below with no whitespace.

Write your answer below:

Press TAB to indent. Press ESC to advance from answer area.

101

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Question 3. (2pts) What does `f` compute? Note: you may assume that `lis` has at least one element and that all its elements are numbers.

```
(define (f lis) (foldl (lambda (x y) (if (> x y) x y)) lis (car lis)))
```

Select one:

- (•) maximum element in lis
- ( ) minimum element in lis

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Question 4. (2pts) Consider the lambda term $(\lambda x.x)\ ((\lambda x.x)\ (\lambda z.(\lambda x.x)\ z))$. There are this many reducible expressions in this term:

Select one:

- ( ) 0
- ( ) 1
- (•) 3
- ( ) 2

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Question 5. (2pts) Consider the lambda term $x\ ((\lambda y.y)\ z)$. The expression is in WHNF:

Select one:

- ( ) false
- (•) true

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Extra credit question. (1pt) Consider the problem of figuring out whether two trees (lists in Scheme) have the same *fringe*, that is, the same leaves, in the same order, regardless of structure. E.g., ((1 2) 3) and (1 (2 3)) have the same fringe.What is a straight-forward way to solve this problem?
Important note: Answers longer than 3 words will not be considered!

Write your answer below:

Press TAB to indent. Press ESC to advance from answer area.

flattern then compare

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By clicking "Submit" you are confirming that you have read, understand, and agree to follow the Academic Integrity Policy.

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Note: This version of your assignment will be graded by the instructor/TAs and the score recorded in the gradebook.

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2 / 2	**HIDDEN: Test 8 Question 1**	
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