New submission for: Quiz 4

Due: 10/06/2020 @ 04:19 PM EDT

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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 1-5 below refer to the Pascal-like program:

procedure main

x: integer := 1 //declaration and initialization of integer variable x in main

procedure A(n : integer) if n < 200

x := x + 1

B(n+1) else

write (x) /* writes x on console */

procedure B(m : integer) x : integer := 0

/* begin of body of main */

/* end of body of main */

Question 1. (2pts) The static link for a frame of B (referred to as the current frame) points to

Select one: the most recent frame of B (other than the current frame)

the frame of main

the most recent frame of A before the current frame

sometimes it points to a frame of A and sometimes it points to a frame of B

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Question 2. (2pts) The dynamic link for a frame of B (referred to as the current frame) points

Select one: the most recent frame of B (other than the current frame)

the frame of main

• the most recent frame of A before the current frame

o sometimes it points to a frame of A and sometimes it points to a frame of B

Question 3. (2pts) Under static scoping rules, x in A refers to

Select one:

sometimes it binds to x in main and sometimes to B's x

B's x Jse Most Recent Submissior

Question 4. (2pts) What does the program print under static scoping rules? Enter just one number on a single line in the first line of the text area below with no whitespace.

Write your answer below:

Question 5. (2pts) Under dynamic scoping rules, x in A refers to

Select one: x in main

sometimes it binds to x in main and sometimes to B's x

B's x

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Question 6. (2pts Extra credit) Willy Wazoo is writing a verifying compiler that (among other things) would guarantee that if a program compiled successfully, then when it executed, all loops would terminate. Willy's compiler would be an example of

Select one: dynamic syntax analysis

static semantic analysis static syntax analysis

dynamic semantic analysis

2 / 2 HIDDEN: Test 13 Question 6

Test 14 Check Honor Pledge

Test 15 Check Time Limit

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

Select Submission Version: Version #1 GRADE THIS VERSION Do Not Grade This Assignment

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

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