CSPB 3155 - Reckwerdt - Principles of Programming Languages

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Started on	Wednesday, 3 July 2024, 3:23 PM						
State	Finished						
Completed on	Wednesday, 3 July 2024, 3:27 PM						
Time taken	3 mins 36 secs						
Marks	5.00/5.00						
Grade	10.00 out of 10.00 (100 %)						
Question 1 Correct Mark 1.00 out of 1.00 What figure does the program below generate: let a = rectangle(1) in let b = circle(0.5) in							
Select one: a. A circle on top of a circle b. A square on top of a circle							
c. error							
d. A circle on top of a square							
e. A doberman on top of a dalmatian							
Correct	Your answer is correct. Correct Marks for this submission: 1.00/1.00.						

Question Z
Correct
Mark 1.00 out of 1.00

Where is the file ASTGrammar.scala located under the main project directory?

Select one:
a. directory/under/file/system
b. who/knows/where
o c. src/main/scala/edu/colorado/csci3155/project2
d. I do not know
e. /etc/rc.d/init.d/system/networking/apis/samsung/10313
Your answer is correct. Correct Marks for this submission: 1.00/1.00.
Question 3 Correct
Mark 1.00 out of 1.00
What is the purpose of the MyCanvas data structure in the file MyCanvas.scala?
Select one:
a. It implements the entire interpreter
 b. It implements a collection of figures that could be polygons and circles along with operations to overlay, translate, rotate, placeTop and others.
c. It stores my canvas
d. I will find out when I start working on the project
Your answer is correct. Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of 1.00

What does the rule below mean?

$$\frac{evalExpr(\texttt{e1},\sigma) = v_1, \ v_1 = Canvas(O_1) \ evalExpr(\texttt{e2},\sigma) = v_2, \ v_2 = Canvas(O_2)}{evalExpr(\texttt{Plus}(\texttt{e1},\ \texttt{e2}),\sigma) = \texttt{overlap}(v_1,v_2)} (\texttt{plus-figures-ok})$$

lect	

a. It means that some thing	as in life are above the line and s	some are below: such is the nature of the ta

•	b. It is a rule that says	that when we add two	expressions that evaluate to	o figures, the resu	It is given by overlaying them.
	b. It is a raic triat says	that which we dad two	expressions that evaluate to	o figures, tile resu	it is given by overlaying them.

c. I have no clue whatsoever

	d.	It is	а	semantic	rule	for	dividina	one	number	bv	anothe

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of 1.00

Here is a short excerpt from the file Interpreter.scala:

case FunDef(x, e) => ??? //TODO: Handle function definitions

case LetRec(f, x, e1, e2) => ??? // TODO: Handle recursive functions -- look at Environment.scala

case FunCall(fCallExpr, arg) => ??? // TODO: Handle function calls

How would you implement the code for the missing parts here?

Select one:

- a. Consult notebooks posted by Sriram on "Function Calls in Lettuce" and "Recursion in Lettuce".
- b. Drink some beer.
- c. Figure it out: Sriram mumbled something about it three weeks ago but I slept the whole time.
- d. Beg for help from my friends on facebook.

Your answer is correct.

(Correct)

Marks for this submission: 1.00/1.00.