CIS 343 – Structure of Programming Languages Homework Assignment #7, Winter 2019 Topic: Control Flow

Due: Friday, April 12, 2019

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1.	Α_	is any observable change in memory, input, or output.			
	a)	side impact	side effect	c) side kick	
2.	In	notation, operators appear to the left of their operands.			
	(a)	prefix	b) postfix	c) infix	
3.	_	evalua normal order	ation, the operands are	evaluated first and then the operator is applied to them.	
4.	The		uation corresponds to a	a bottom-up evaluation of the values at the nodes of the syntax	
(a)	normal order	b) applicative order		
5.		evaluation	on of expressions is the	most common in programming languages.	
	a)	Normal order	Applicative order		
6.		evaluation	on of expressions is also	o known as non-strict or delayed evaluation.	
	a)	Applicative order	b) Normal order		
7.				n, each operator begins its operation before its operands are by if it is needed for the calculation of the value of the operation.	
	(a)	normal order	b) applicative order		
8.	Sho	ort-circuit evaluation	on of Boolean expression	ons is a form of evaluation.	
	a)	strict	b) delayed		
9.	Giv	en the following t	wo function definitions	3:	
		int dbl(int	x) { return x +	x; }	
		int sqr(int	x) { return x *	x; }	
		_		(2))) using both <u>applicative order evaluation</u> and <u>normal</u> many additions and multiplications are performed under each	
		Show your work of	on the back of this page	2.	