UC Berkeley's CS10 Fall 2016 Quest : Instructor Dan Garcia

Your Name (first last)		SID Lab TA's Na		
← Name of person on left (o	r aisle)	Name o	f person on right (or aisle) 🗦	
What's that Si	nell? Oh, it's Potpoເ	urri! (2 pts each, 12 p	ooints per page)	
Fill in the correct circles &	squares completelylike this	: • (select ONE) = (select A	ALL that apply)	
	We drop the lowest-scorin	g questions on this page		
Question 1: Which is the I	east correct example of Abstr	action, as we use in Comput	er Science? (select ONE)	
O When creating a pedes	trian foot traffic simulation, mo	odel each person as a single	(x,y) point on the map.	
O Writing down a <i>differen</i>	t smoothie recipe for every fru	uit, even though the only diffe	erence is the fruit itself.	
O Summarizing driving di	ections into "go a mile, left at	the stadium" and not listing	out every stop sign/light.	
O Watching television, an	d not knowing (or caring) whe	ether it came from a DVD, Bl	uray, cable or antennae.	
Question 2: What is the co	prrect order of the numbers: 1	2 ₁₆ (hex), 1110 ₂ (binary), 13	10 (decimal)? (select ONE)	
0	0	0	0	
12 ₁₆ ≤ 1110 ₂ ≤ 13 ₁₀	12 ₁₆ ≤ 13 ₁₀ ≤ 1110 ₂	1110₂ ≤ 13 ₁₀ ≤ 12 ₁₆	13 ₁₀ ≤ 1110 ₂ ≤ 12 ₁₆	
Boolean expressions and o	data flows from the variables out. The figure is used for que in expression does the figure	A and B through the estions 3 and 4.	A OR AND	
0	0	0	0	
A and A or B	A or A and B	B and A or B	B or A and B	
Question 4: If the output fi	rom the figure above is true, v	vhich can you say for sure? ((select ONE)	
0	0	0	0	
A must be true	B must be true	Both A and B must be true	Nothing	
Question 5: Which of the t	ollowing is a false statement	about <u>Algorithms</u> ? (select Ol	NE)	
O Every algorithm can be	constructed using only seque	encing, selection and iteration	n.	
O Given a particular probl	em, there is only one algorith	m that can solve it.		
O Knowledge of standard	algorithms can help in develo	pping new algorithms.		
O Algorithms can be com	pined to make new algorithms	S.		
	ollowing is the most powerful ost powerful, there may be mo		ct at least one.)	
Functional	Imperative	Object Oriented	Declarative	
	owing error-free expression Foo? (select ALL that apply)	Bar Foo Foo 42, what	do you know <i>for sure</i> about	
The Domain of Foo	The Range of Foo is exactly	The Domain of BarThe Domain of Bar iscontains the range of Foo.exactly the range of Foo.		

Question 8: To everything, turn, turn, turn... (aka Squiral revisited) (2 pts)

SID:



The sprite starts in the center of the blank screen, and the user makes a call to Draw Spiral. We've zoomed in to the center to see the pretty pattern that was drawn.

	0	0	0	0
at value of turn used this pattern?	45	60	90	120
(select ONE)				

Question 9,10,11: Aw, there's a zero in my list! Or not... (2 pts, 3 pts, 2 pts)

Consider the **buggy** program on the right for determining whether there is a zero in a list of numbers:

