## UC Berkeley's CS10 Fall 2016 Midterm 2 : Instructor Dan Garcia

Your Name (first last)		SID			Lab TA's Name		
← Name of person on left (or aisle)			Name of person on right (or aisle) 🗲				
What's that Smell? Oh, it's Potpourri! (2 pts each for 1-6, low score dropped)							
Fill in the correct circles & squares completely…like this: ● (select ONE) ■ (select ALL that apply)							
Question 1: If 75% of a program's code is parallel, what is the maximum speedup with ∞ helpers? (select ONE)							
0	0		0		0		
25x	/5X		1.33333X		4X		
Question 2: What do researchers believe might happen after the singularity? (select ALL that apply)							
Al systems may show	Al systems will be written		Al systems m	Al systems may be		Al systems may conclude	
general intelligence	by other AI systems		beyond human control.		humans are threats		
Question 3: How would Judah Schwartz classify the Snap! programming environment? (select ONE)							
0	0		0		0		
Tool	Microworld		Macrowo	rld	Coursew	are	
<ul> <li>You can avoid having an information footprint by staying offline.</li> <li>The online world is inseparable from the real world.</li> <li>Sharing information over a network means you give up control over that information — forever.</li> <li>Question 5: What are some implications of Internet Sovereignty? (select ALL that apply)</li> <li>Governments could control cyberspace based on their physical borders.</li> <li>Governments could control the flow of money flowing into their country through cyberspace.</li> <li>Governments could dictate that only websites in their native language could be viewed in their country.</li> <li>Governments could force their countries' websites to be viewable globally.</li> </ul>							
Quantian $G_{1}$ if the expression $A$ or $A$ and $B$ is folde, which can you say far every (colort ONE)							
	is false B is true	Both	A and B are false	Both	A and B are true	Nothing	
		Bound		Dotti		Houning	
Question 7: What are the of Note that the "set" blocks h when I receive Golv script variables (my copy) wait (pick random (1) to (2)	different possible valu appen instantaneous	ues of NA sly and at n click NAME v to ndcast Go!	AME at the end? ( comically (i.e., the ed CAL CAL scrip wait	select ALI y aren't ini I receive t variables pick rando	that apply) (4 pts terrupted by the o	s) ther script) cs	



## Question 8: Increasing? (16 pts = 2+3+3+3+5)

SID:

Consider the problem of wanting to determine if the numbers of a list (of at least two items) are all *increasing* (i.e., *every* element after the first one is larger than the one before). Note: the input will always have  $\geq 2$  items. What's wrong (if anything) with each of the following three boxed attempts? (select ONE from the legend below)

