UC Berkeley's CS10 Fall 2019 Quest – 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) \rightarrow

What's that Smell? Oh, it's Potpourri! (2 pts for 1-6, we drop lowest one)

Fill in the correct circles & squares completely…like this: ● (select ONE) ■ (select ALL that apply)

Question 1: Which of the following is a true statement regarding Abstraction? (select ONE)

O A person from 1920 could still easily *start today's car* thanks to *abstraction*.

- O Someone who hires someone to steal a neighbor's pool and puts it in their backyard, and tells them exactly how to move the pool and how to install it, by providing a ton of details that help the thief is using *abstraction*.
- O The Apple power brick that supports different plugs for different countries is an example of *detail removal*.
- O Recipe authors who write "For a milkshake: blend ice cream, milk, vanilla and <fruit>" use generalization.

O None of the Above.

Question 2: What is 100₂ + 11₁₀? (select ONE)

0	0	0	0	0	0	0	0
A ₁₆	B ₁₆	C ₁₆	D ₁₆	E ₁₆	F ₁₆	G ₁₆	H ₁₆





A must be true	B must be true	A must be false	B must be false	None of these

Question 6: Which of the following is equivalent to the original Test block? (select ONE)



Question 7: Now line up for the assembly ... (6 pts)

This script is intended to take three distinct numbers and return a list of three numbers, where the smallest number will be listed first, the middle number second, and the largest last. What do we know for sure? (select ONE per row)

a) The first number (small) is the smallest number among A, B and C	yes ⊖ ⊖ no		
b) The second number (medium) is the middle number among A, B and C	yes ⊖ ⊖ no		
c) The third number (large) is the largest number of A, B and C	yes ⊖ ⊖ no		





Question 8: I command you to change !!... (4 pts)

What gets said if I run the script below? The variable **global** is a global variable. (fill in the blank)



	e) What are <i>all their zip codes that are palindromes?</i> (I.e., the same forward as backwards, like 98289)	d) Given the phone number of every friend, what are the costs of an hour phone call to each, converted to Euros?	c) Who are the friends who both owe you money AND have rich parents they can borrow from to pay you back?	b) What are the zip codes of friends who sent you holiday cards last year?	a) Who is the oldest friend?		(select ONE per row) <i>Hint: None of these are used twice</i>	data fields, a sentence, etc.). Given each query, which is the t	(e.g., it has their names, their phone number, address, family	Question 9: My favorite "Friends TM " episode? The one wi
	0	0	0	0	0	map mapper) over friends	olaceho	simples	informa	th the I
=	0	0	0	0	0	map (mapper) over keep items predicate) from friends	lders fo	t HOF	ation, he	Higher-
	0	0	0	0	0	keep items predicate from friends	r whate	express		Order
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	0	0	0	0	0	combine friends using combiner	ctions y	olve it?	owe you	bns! (5
	0	0	0	0	0	Can't be done with any of the expressions on the left.	/ou'd need.)	(Note	u, etc.).	<u>pts)</u> vries helow

You did it!! Congratulations!!