Midterm I Graded Student Jae Hong Lee **Total Points** 31 / 34 pts Question 1 Q1 1 / 1 pt + 0 pts Incorrect: correct answer is second choice Question 2 Q2 1 / 1 pt + 0 pts Incorrect: correct answer is false Question 3 Q3 1 / 1 pt + 0 pts Incorrect: correct answer is false Question 4 Q4 1 / 1 pt + 0 pts Incorrect: correct answer is all of the above **Question 5** Q5 1 / 1 pt → + 1 pt Correct + 0 pts Incorrect: correct answer is false Question 6 Q6 **0** / 1 pt + 1 pt Correct → + 0 pts Incorrect: correct answer is none of the above

# Question 7 Q7 1 / 1 pt + 0 pts Incorrect: correct answer is fourth choice **Question 8** Q8 **0** / 1 pt + 1 pt Correct → + 0 pts Incorrect: correct answer is all of the above Question 9 Q9 1 / 1 pt + 0 pts Incorrect: correct answer is first choice **Question 10** Q10 1 / 1 pt + 0 pts Incorrect: correct answer is true **Question 11** Q11 1 / 1 pt + 0 pts Incorrect: correct answer is false Question 12 Q12 1 / 1 pt

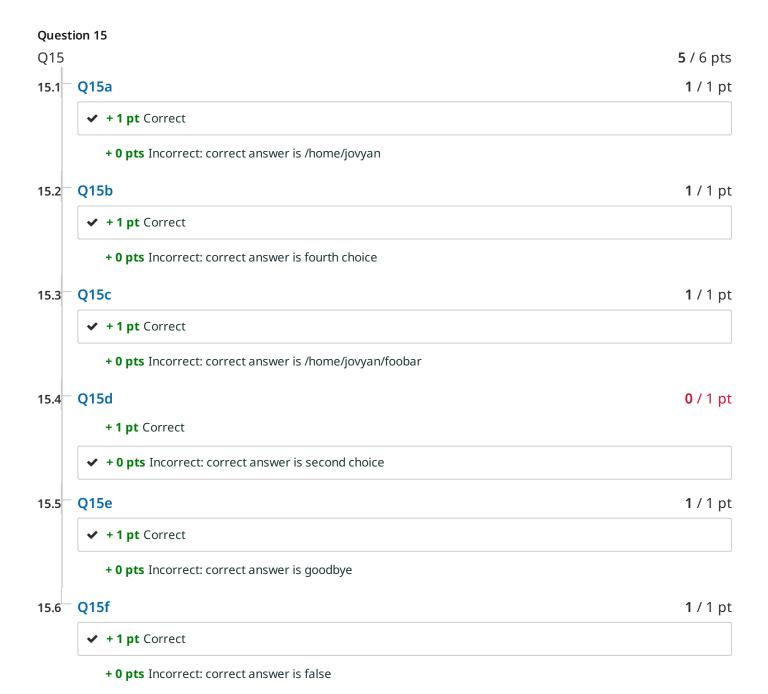
+ 0 pts Incorrect: correct answer is third choice

### Question 13 Q13 **5** / 5 pts **1** / 1 pt 13.1 Q13a → + 1 pt Correct + 0 pts Incorrect: correct answer is 3924 13.2 Q13b 1 / 1 pt + 0 pts Incorrect: correct answer is IACA **1** / 1 pt 13.3 Q13c → + 1 pt Correct + 0 pts Incorrect: correct answer is 6AA0 13.4 Q13d 1 / 1 pt + 0 pts Incorrect: correct answer is 4132 13.5 Q13e **1** / 1 pt → + 1 pt Correct

+ 0 pts Incorrect: correct answer is 4BFF

#### Question 14 **5** / 5 pts Q14 14.1 Q14a 1 / 1 pt → + 1 pt Correct **+ 0 pts** Incorrect: correct answer is 0101101001001011 14.2 Q14b 1 / 1 pt **+ 0 pts** Incorrect: correct answer is 0110011100110000 **1** / 1 pt 14.3 Q14c → + 1 pt Correct **+ 0 pts** Incorrect: correct answer is 0100110001011110 14.4 Q14d 1 / 1 pt **+ 0 pts** Incorrect: correct answer is 0100100000111110 14.5 Q14e **1** / 1 pt → + 1 pt Correct

**+ 0 pts** Incorrect: correct answer is 0111011001011110



## Question 16 **6** / 6 pts Q16 **1** / 1 pt 16.1 Q16a → + 1 pt Correct + 0 pts Incorrect: correct answer is no 16.2 Q16b 1 / 1 pt + 0 pts Incorrect: correct answer is 3 **1** / 1 pt 16.3 Q16c + 0 pts Incorrect: correct answer is 1 16.4 Q16d 1 / 1 pt + 0 pts Incorrect: correct answer is 1 16.5 Q16e 1 / 1 pt ✓ + 1 pt Correct + 0 pts Incorrect: correct answer is 0 **1** / 1 pt 16.6 Q16f → + 1 pt Correct

+ 0 pts Incorrect: correct answer is false

# CS210 Computer Systems, Fall-2023 Midterm-I A

#### **Instructions**

This is a closed book and closed notes exam. NO ELECTRONIC DEVICES. For all multiple choice questions fill in ONE and ONLY ONE circle. Fill the circle in completely.

If you use check marks or other symbols, the auto-grader may not be able to process your answer and will assign you a grade of zero and there will be no regrading.

All pages must have your name and id written on it. Unidentified pages will not be graded

This exam has 16 questions, for a total of 34 points.

First Name: Jue Hong	Last Name: Lee
BILD: 1/27565203	

First Name: .	Jae Honz Last Name: Lee BILID: U217565203
PART A	
0	An ASCII teriminal or terminal emulator:  processes shell command lines $X$ sends and receives text data $O$ ensures all data is printable $X$ ensures we are in the correct working directory $X$ all of the above $X$ none of the above  The UNIX Shell provides system calls that other processes can request.
•	True False An new OS kernel is started for each application we start.
4 (1 point)	True False Bash is a UNIX shell program that
0	lets a user run other programs goes through several steps to process a command line uses Kernel system calls to start processes allows one to run commands that are stored in a file all of the above none of the above
5. (1 point) must go t	On UNIX if the standard output of a process is going to a terminal/tty, then standard error here too.  True False
	We can indicate to bash that the <b>standard output</b> for a command should be redirect to a file following syntax.    file

Firs	t Name: _	Jue Hong	)	_Last Name:	Lee	BU	LID: Uans	65203
		Assume the formydate 1 2>				l -1 > out; sl	eep 1; dat	e int.
	0 0 0	is not a valid by runs the date of sleeps for three sends one line none of the ab	eommand two e minutes y of output to	ice X	assuming n	o errors occur	,	
8.	() () () ()	cat stdout x=\$(./puzz	twaldos   zle1 42 > puzzle1 4 ve	grep -i 2 err   w	waldo : c -1)	r more pipe lines stdoutwaldos -i waldo   w	s   sort	if out of downwards whoms then left pipelic wouldn't go through
9.	0	Git is a version cont the only way t a required too all of the abov none of the ab	to publish co l for working ve				÷	
10.	(1 point) ity to the		n memory ca	annot be relied	l on to hold	its values when t	here is a loss o	of electric-
11.	(1 point)	ASCII is used True False	to encode th	e contents of a	a b <u>inary ex</u>	ecutable file.		
12.	(1 point)	is a built-in co is a powerful allows steppin	text editor ) ng through the ead register v ve	K ne execution of		O at write them X		

First N	ame: _	Jae	Hona		_Last Name:	Lee		BUID:	027	\$65203
P	ART	В								
13. Co <b>le</b> i	onvert t	he follo	owing binar	ry values as needed	to hexadecin	nal. Please en needed (e.g. A	sure all a	nswers ar	e 4 he	x digits in
(a	ı) (1 pc	oint) 00	11/1001/001	100100				0000 0		1000 8
		3	924					00001	2	1010A
(b	) (1 pc	oint) 00	01/1010/110	00/1010				0011	3	1011 B
			LACA					0100	4	1100 6
(0	(1 pc		19/1019/101	10000						1101 D 1110 E
			AAO							IIII F
(d		_	.00/0001/001	1/0010			-			
		4	132							
(e	(1 pc		00/1011/111	11/1111						
		4	BFF	•						
14. Cc	onvert th	he follo	wing hexac	lecimal va	lues to binar	y. Please ensu	ire all an	swers are 1	6 hite	in length
						(e.g. 01010101			ODIG	in icagai.
(a	(1 pc	oint) 5A								,
		0	01/010	000	1011					•
(b	) (1 pc	oint) 67								
		******	01100	11001	10000					
(c	(1 pc	oint) 40	CSE			•				
			00011	00010	1110					
(d	) (1 pc	oint) 48	3E				1, 111112-1122			
	_		0100 10	00 00	11110					
(e	(1 pc	oint) 76	5E							
		······································	01116	11001	01/110					r

First Name	: Jae	Hong	Last Name:	Lee	BUID:	027565 203
1   \$ pwd 2   /home 3   \$ 1s 4   foo b 5   \$ ech 6   goodb 7   \$ cat 8   4	/jovyan ar foo o \$hel ye bar	bar lo wc -1	hell o=Jæd hell o=Jæd   grep goodbye	home bye jovyun foo bar (file) 41ines	Poubur nice	•
15. Given	the above	e bash command	is and output answer	r the following	questions/fill in the	e blanks.
(a) (1	point) (	On line 3 the cur	rent working directo	ory is:		
_	·	/home/jo	ovyan			
		nothing – the file a single line with a single line with a single line with	tis empty X the string: 0 X the string: "goodb the a string which therent working direct	ye" is a number be		r
		/home/jou	yan / foobar			
(d) (1			•	v many items a	re in directory /hor	me/jovyan/foobar?
(e) (1	point) V	What would be th	•	owing commar		
if	run after	line 10?				
		Boogpile			and the same of th	
(f) (1	0 '	We know that '/h True	ome/jovyan/foo' is	NOT a director	ry.	