CMPE109 FUNDAMENTALS OF COMPUTING 2024-2025 FALL LAB ASSIGNMENT 3 SECTION 2

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Full Name:	
Student ID:	
Signature:	

Q1) Trace the following assembly code. After we run the code, whether it halts or gives an error (doesn't matter), what will be the <u>hexadecimal</u> values stored in the following addresses, including IR. **[5 points]**

Note: Every hexadecimal value you write must be 2 characters. For example, write 0A for decimal 10.

Machine Instruction		Assembly Instruction	Operation	1		LOAD R0, 10
Op-code	Operand]	openion	_		
1	RXY	load R, [XY]	Load R with the content from the	2		LOAD R1, 0
2	RXY	load R, XY	memory cell at address XY Load R with the bit pattern XY	3		LOAD R2, 2
3	RXY	store R, [XY]	Store the content of R into the			•
			memory cell at address XY	4		LOAD R3, LIST
4	0RS	move S, R	Move content of R into S	5		
5	RST	addi R, S, T	Add S and T and put the result in R			
			(R, S, and T are in two's complement integer notation)	6	BACK:	LOAD R4, [R3]
6	RST	addf R, S, T	Add S and T and put the result in R	7		JMPEQ R4=R0, END
			(R, S, and T are in floating-point	-		* *
7	RST	or R, S, T	notation) OR the bit patterns in S and T and put	8		ADDI R1, R1, R4
,	Kai	Of K, S, 1	the result in R	9		ADDT D2 D2 D2
8	RST	and R, S, T	AND the bit patterns in S and T and	9		ADDI R3, R3, R2
			put the result in R	10		STORE R4, [\$FE]
9	RST	xor R, S, T	XOR the bit patterns in S and T and	4.4		,
A	ROX	ror R, X	put the result in R Circularly rotate the bit pattern in R	11		JMP BACK
	Koz	IOI N, A	one bit to the right X times	12		
В	RXY	jmpEQ R=R0, XY	Start decoding the instruction located			
			at address XY if the bit pattern in R is	13	END:	ROR R1, 2
С	000	halt	equal to the bit pattern in register 0 Halt execution	14		STORE R1, [\$FF]
D	0RS	load R, [S]	Load R with the content from the			,
			memory cell whose address is in S	15		ROR R4, 1
E	0RS	store R, [S]	Store the content of R into the memory cell whose address is in S	16		HALT
F	RXY	jmpLE R<=R0, XY	Start decoding the instruction located			17151
			at address XY if the bit pattern in R is	17		
			less than or equal to the bit pattern in register 0	18	LIST:	DB 2,8,5,10,9,9,10,4,-1
	I	<u> </u>	register 0	10	2101.	22 2,0,2,10,2,2,10,7, 1

R4	
FF	
R1	

Q2) Above assembly code can run without giving and error, or maybe it is wrong and can give an error at some point, you must understand that. Do you think this assembly code will run and <u>halt</u> without an error (write **yes** or **no**)? If you said **no**, why (write just 1 sentence)? **[2 points]**

Q3) Recreate the given webpage visually using HTML. Your code should include a nested list about hamburger ingredients. Ensure your code is correctly structured with proper HTML tags and formatting. **[7 points]**

	html	
	<html></html>	
	<head></head>	
	<body></body>	
ı		

Cute Hamburger Ingredients

- Bun UwU
 - 1. Flour
 - 2. Water (I love it!)
 - 3. Sugar
 - 4. Salt (Yuck!)
 - 5. Yeast mixture
- Patty OwO
 - 1. Ground meat
 - 2. Onion (Smelly!)
 - 3. Salt
 - 4. Black pepper
 - 5. Spices
- General Ingredients:3
 - Lettuce
 - o Tomato
 - o Cheese
 - Ketchup
 - o Mayonnaise
 - Pickles (No!)



- ➤ Page title is "My Recipes".
- ➤ Page background is colored with "#FFCCFF" color.
- ➤ Use "h1" for the heading.
- ➤ Image is placed <u>after the heading</u>, its name is "brgA.png", width is "168", height is "300", and it is aligned to the "right". It looks on the right of the list because it is <u>aligned to the right</u>, there is no special case or code for that.
- > Outer list items are *italic*.
- Parentheses in inner list items are **bold**.

</body>

