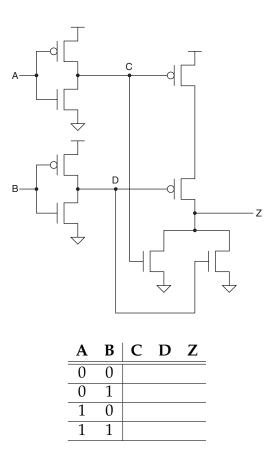
CS150 - Computer Organization and Architecture Homework #2 - Spring 2024

1. Fill in the truth table corresponding to the transistor-level circuit shown below.



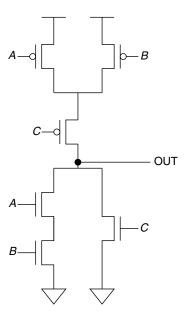
2. Referring back to the transistor-level circuit shown in Problem 1, what is **Z** in terms of **A** and **B**?

3. Fill in the truth table below:

Α	B	NOT(NOT(A) OR NOT(B))
0	0	
0	1	
1	0	
1	1	

4. Referring back to the truth table in Problem 3, what single logic gate has the same truth table?

5. Fill in the truth table corresponding to the transistor-level circuit shown below.



Α	В	С	OUT
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	