## CS 441: Discrete Structures for Computer Science Fall 2024

## Homework 2

Name:		Username (abc123):	
Problem 1:	Sec 1.2, $\#32$	(8 points)	
Problem 2:	Sec 1.2, $\#40$	(10 points)	
Problem 3:	Sec 1.3, $\#26^1$	(8 points)	
Problem 4:	Sec 1.3, $\#30^1$	(10 points)	
Problem 5:	Sec 1.3, $\#34^1$	(10 points)	
Problem 6:	Sec 1.4, #8	(12 points)	
Problem 7:	,	` - /	
Problem 8:	, ,,	` /	
Problem 9:		( - /	
	<i>, ,</i>	( 1 )	
Challenge 1:	Sec 1.3, #50	(2 extra points)	
Challenge 2:		(6 extra points)	
	,		
	Problem 2: Problem 3: Problem 4: Problem 5: Problem 6: Problem 7: Problem 8: Problem 9: Challenge 1:	Problem 2:       Sec 1.2, #40         Problem 3:       Sec 1.3, #26¹         Problem 4:       Sec 1.3, #30¹         Problem 5:       Sec 1.3, #34¹         Problem 6:       Sec 1.4, #8         Problem 7:       Sec 1.4, #10         Problem 8:       Sec 1.4, #12         Problem 9:       Sec 1.4, #24	Problem 1: Sec 1.2, #32 (8 points) Problem 2: Sec 1.2, #40 (10 points) Problem 3: Sec 1.3, #26¹ (8 points) Problem 4: Sec 1.3, #30¹ (10 points) Problem 5: Sec 1.3, #34¹ (10 points) Problem 6: Sec 1.4, #8 (12 points) Problem 7: Sec 1.4, #10 (15 points) Problem 8: Sec 1.4, #12 (7 points) Problem 9: Sec 1.4, #24 (20 points)  Challenge 1: Sec 1.3, #50 (2 extra points)

<sup>&</sup>lt;sup>1</sup>Do not use a truth table; use the direct manipulation method (using existing logical equivalences).