## ECE 2300 Digital Logic and Computer Organization, Fall 2025 Discussion Section 4 – Lab 2 Head Start

revision: 2025-09-19-12-25

In this discussion section, we will be implementing a full adder and a four-bit ripple carry adder. Here is an incomplete truth table for the full adder.

in0	in1	cin	cout	sum
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

Here is an incomplete partial truth table for the ripple-carry adder.

in0	in1	cin	carry0	carry1	carry2	cout	sum
0000	0000	0					
0001	0001	0					
0001	0001	1					
0011	0011	0					