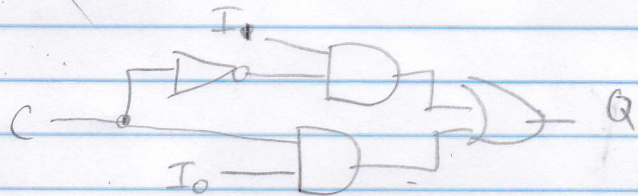


Two Input Mux

I_1	I_0	C	Q
0	0	0	0
0	1	0	1
1	0	0	0
1	1	0	1
0	0	1	0
0	1	1	0
1	0	1	1
1	1	1	1

$$Q = (\overline{C} \cdot I_1) + (C \cdot I_0)$$



Full ADDER

Input			Output	
A	B	C_{in}	Sum	CARRY
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

