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A	B	C	F	Data inputs
0	0	0	1	$I_0 = \bar{A}$
0	0	1	1	
0	1	0	0	$I_1 = 1$
0	1	1	0	
1	0	0	0	$I_2 = 0$
1	0	1	1	
1	1	0	0	$I_3 = A$
1	1	1	1	