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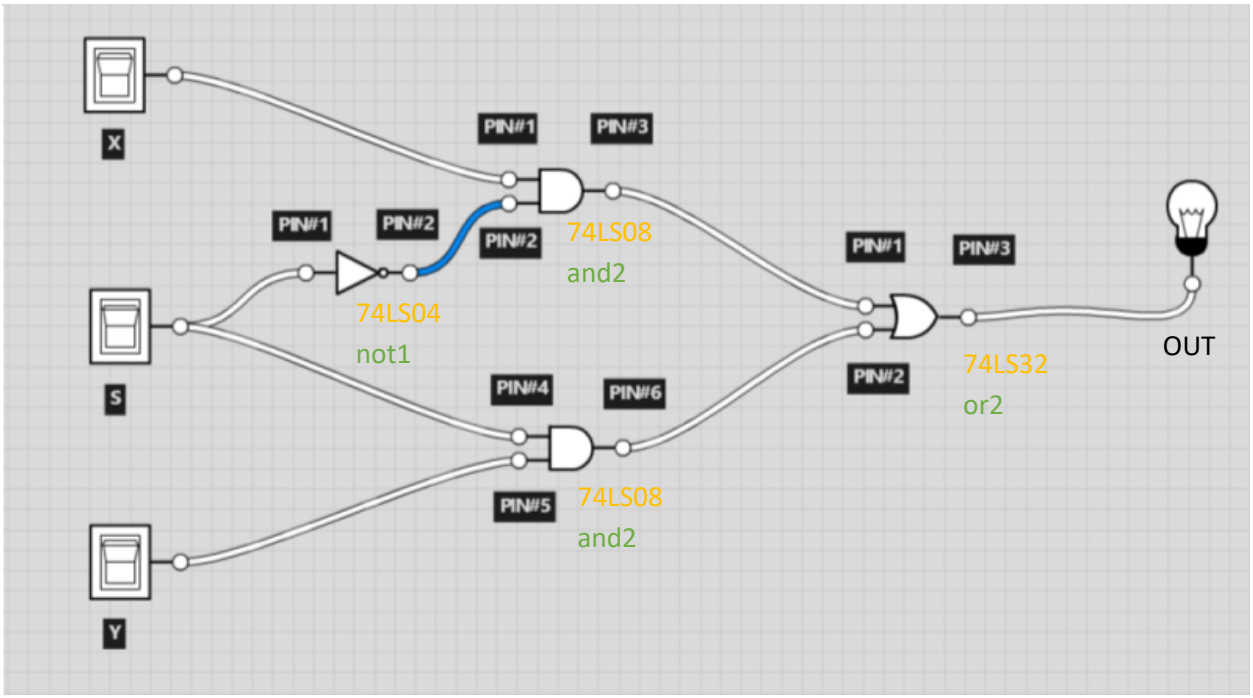
Prelab 1

Part |

1.

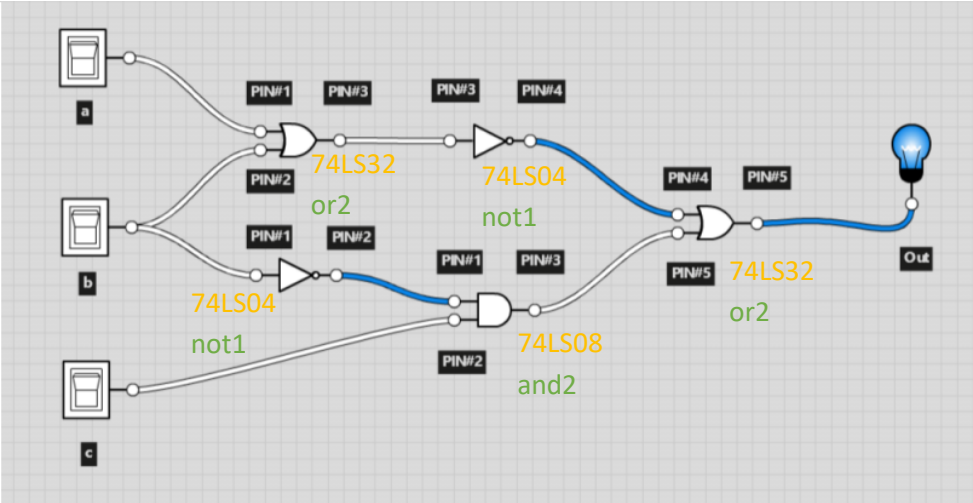


2.

X	S	Y	OUT
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

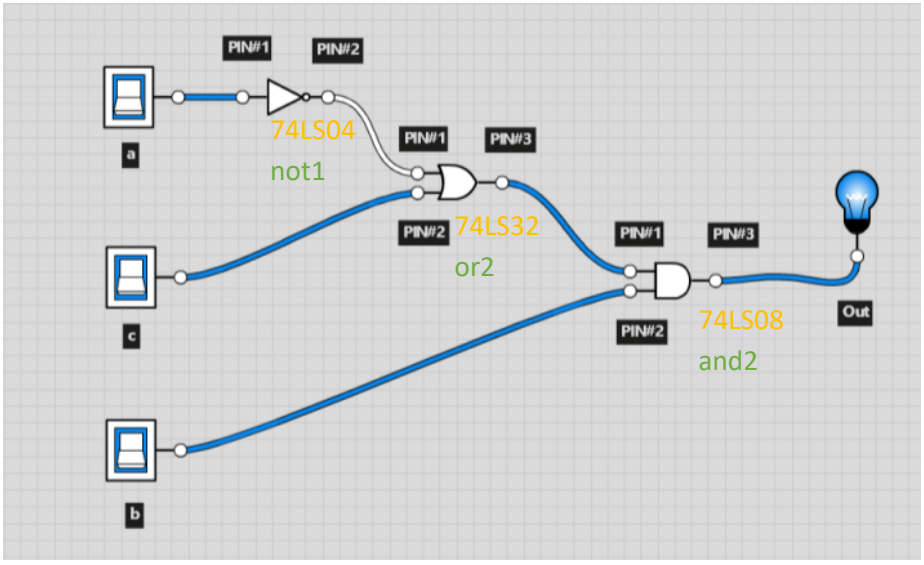
Part II

1.



2.

a	b	c	OUT
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0

3.

Yes, there is a simpler implementation since the boolean function can be simplified to f = (a' + c)b'