

Course Comment(s):

Thu 25 Oct 2018

• Make your own Ideas/Projects count towards course

— Mandatory presentation

(red $\Rightarrow$ mandatory)

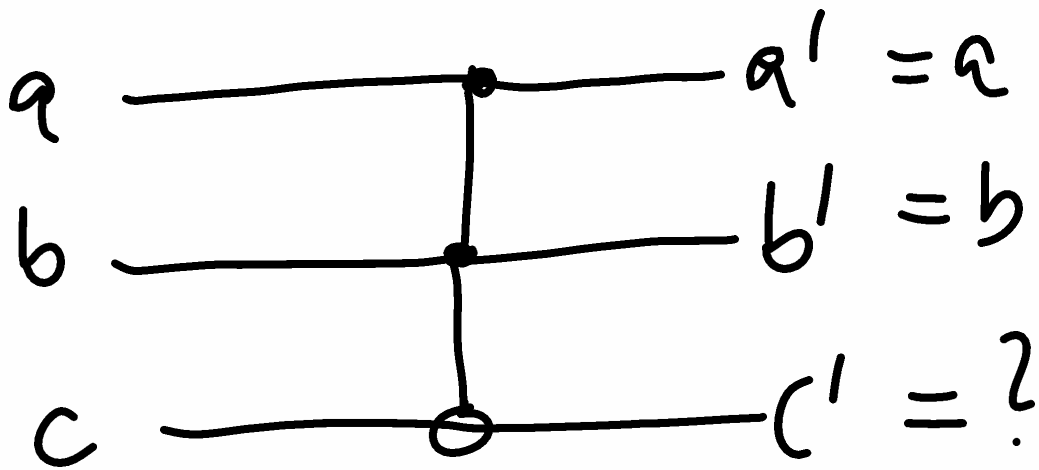
• Clearly state Problem addressed
" " your solution

— Clarity/Readability of code

— Code Structure/Maintenance (make & git/hub)

— Submission: zipped tarball of git

CNOT & CCNOT



Question Write the logical expression of c' in terms of a, b, c (see truth table)

guess 1

$$c' = [\neg(a \wedge b) \wedge c] \oplus [(a \wedge b) \wedge \neg c]$$

guess 2

$$c' = (a \wedge b) \oplus c$$

a	b	c	$s1$	$s2$
0	0	0	0	0
0	0	1	0	0
0	1	0	0	0
0	1	1	0	0
1	0	0	0	0
1	0	1	1	1
1	1	0	1	1
1	1	1	1	1

Question Is it true $g_1 \leftrightarrow g_2$?

Yes, because both have = TT.

Exercise 1 Show algebraically That $g_1 \leftrightarrow g_2$ is tautology