CS1026

Lab #3

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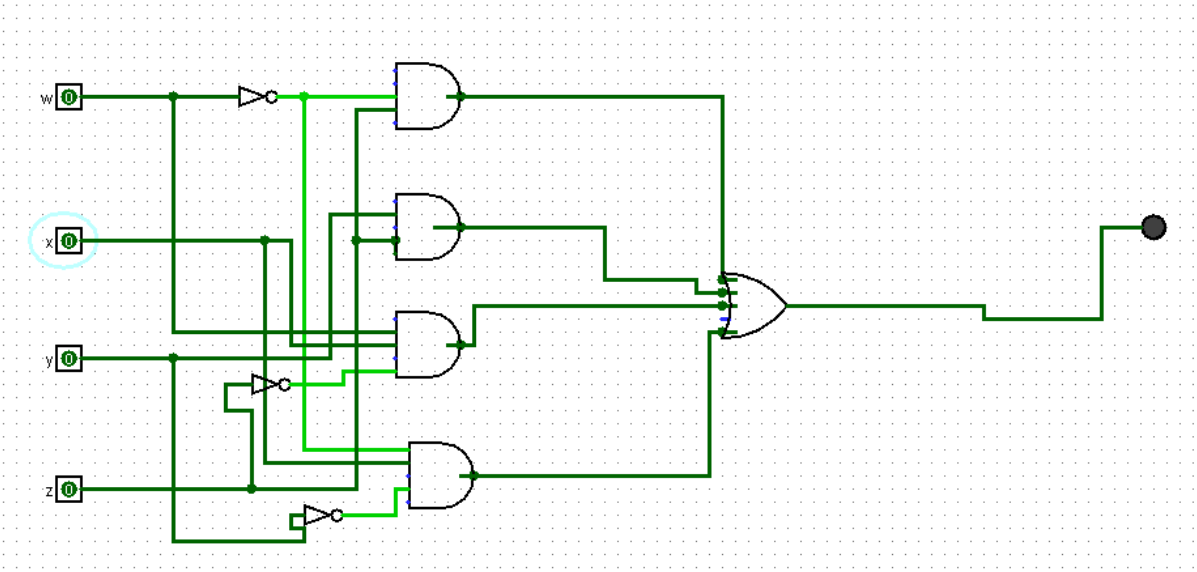
F(W, X, Y, Z) = Sigma m(1, 4, 5, 11, 12, 14, 15) • Note: Sigma md(2, 3, 7, 9) (don’t cares)

NOR gate logic

Inputs		Outputs
A	B	Y
0	0	1
0	1	0
1	0	0
1	0	0

After doing a Karnaugh map I obtained this answer:

F(w, x, y, z) = (w’+z)+(yz)+(wxz’)+(w’xy’)



When x or z is a 1 then the LED lights up irregardless of the other inputs.