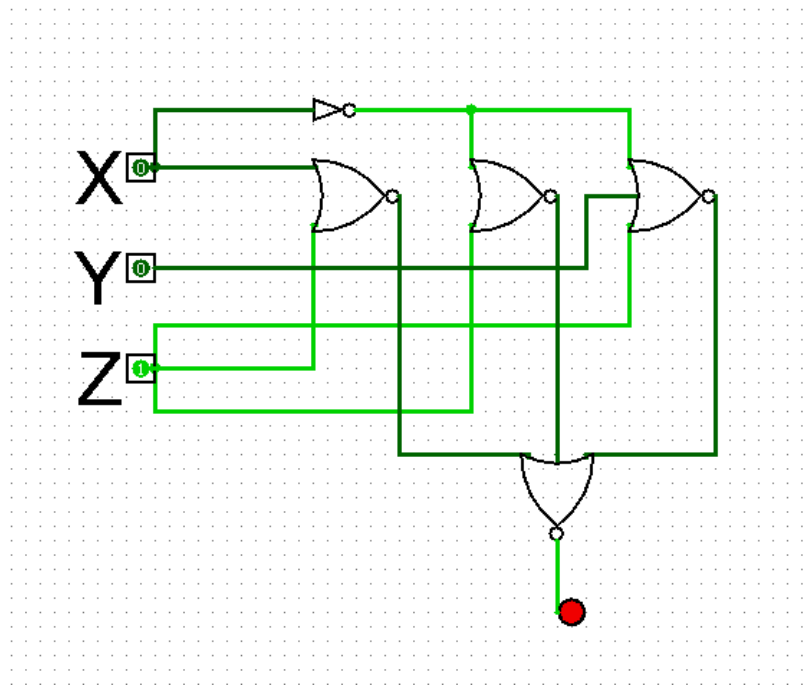


CS1026 – Lab #2 - 16324334

A POS function takes a number of inputs and returns outputs for specific combination for those inputs. To implement the function given we can use de Morgans to change the AND portion into NOR gates.



X	Y	Z	OUT
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

$$F = (X+Z)(Y'+Z)(X'+Y+Z)$$

$$((X+Z)' + (Y'+Z)' + (X'+Y+Z)')'$$