

Rohan Kallur

I pledge my honor that I have abided by the Stevens Honor System.

## TASK 1

Test 1

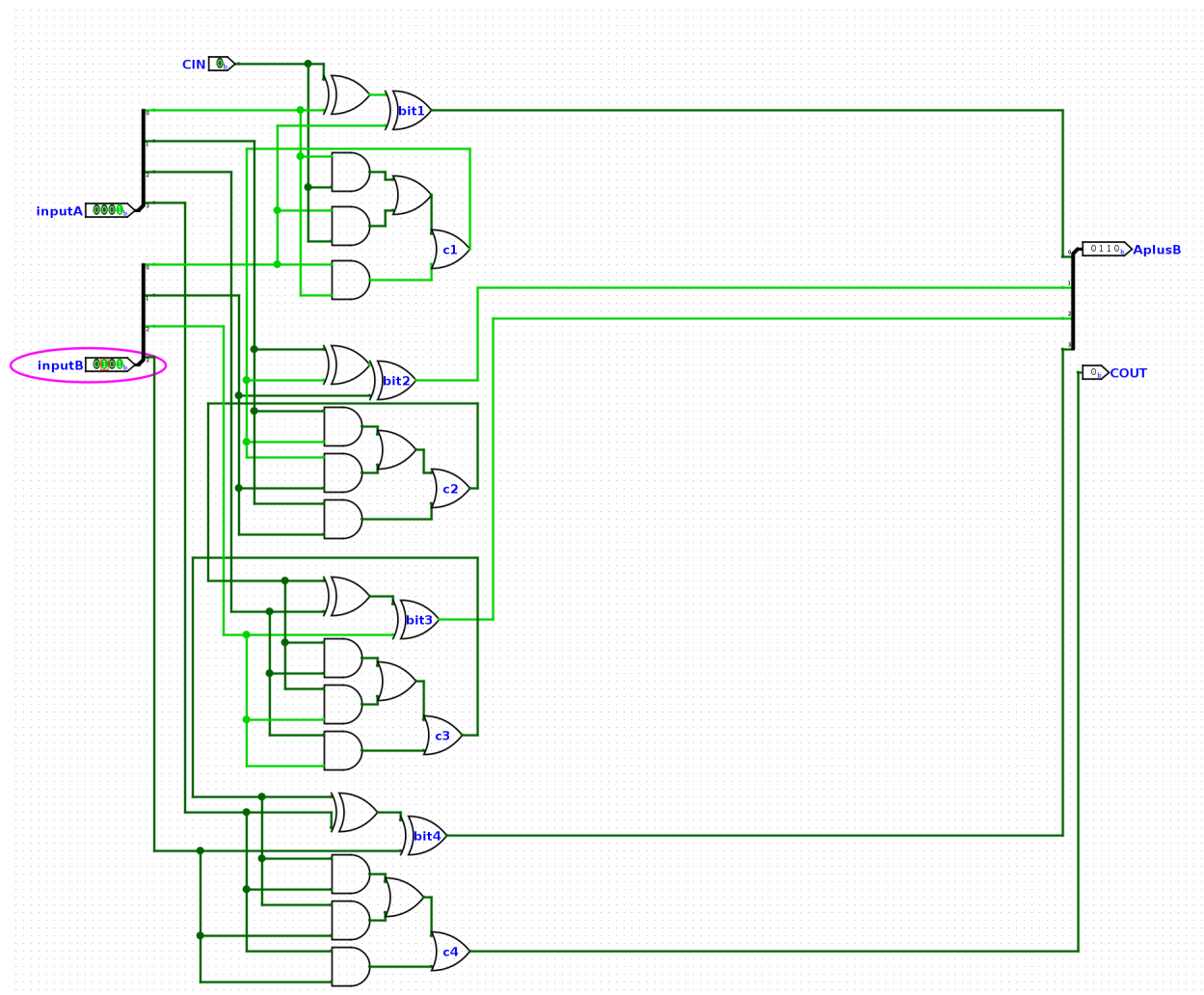
A: 0001

B: 0101

Expected output: 0110, Carry out is 0

The function works as expected

I chose this to test and make sure that the basic adding function would work first without an overflow



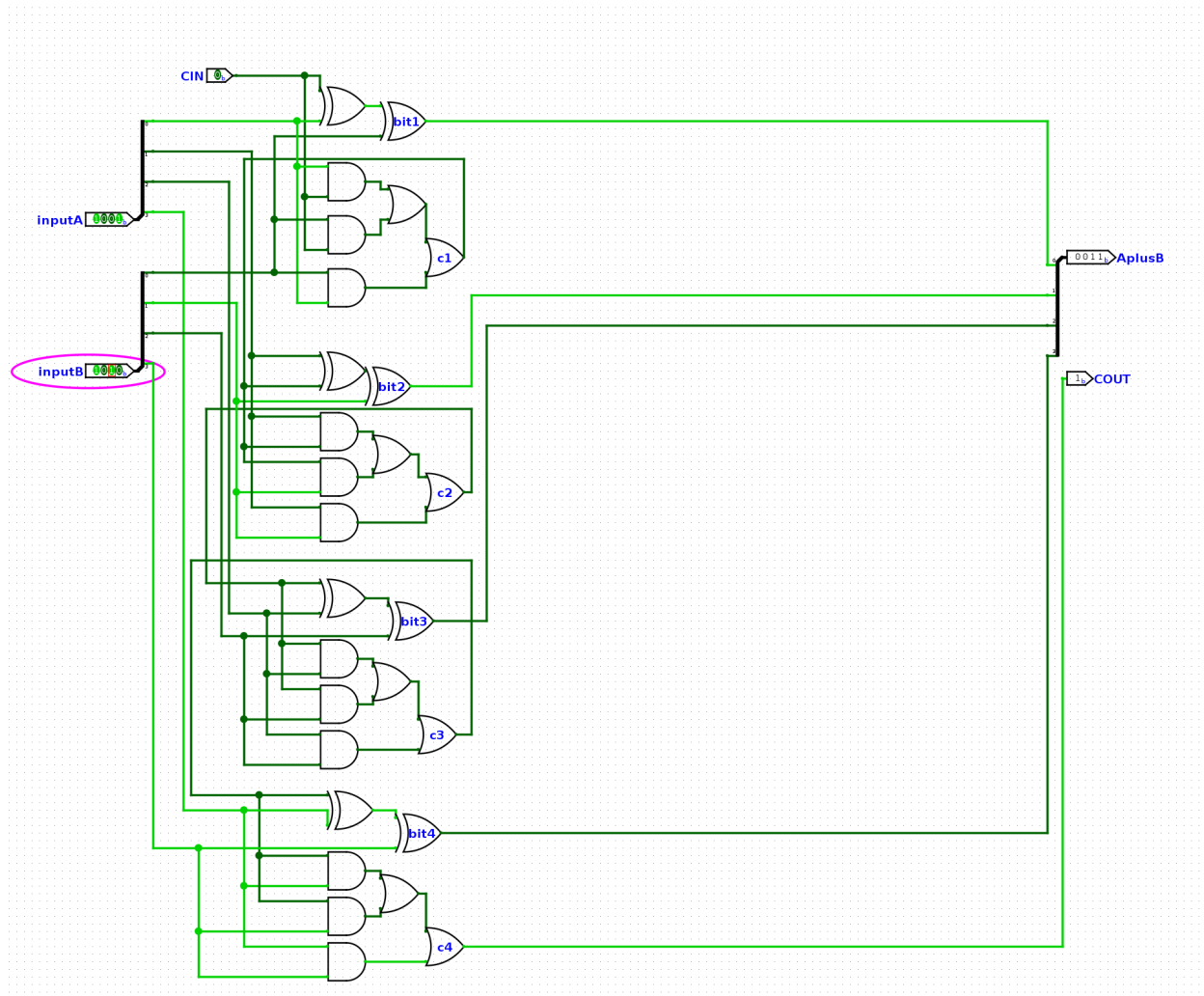
# Task 1 Test 2

A: 1001, B: 1010

Expected: 0011, Carry out: 1

This works as expected

I chose this to test if the adding with an overflow would work as expected, which it did.



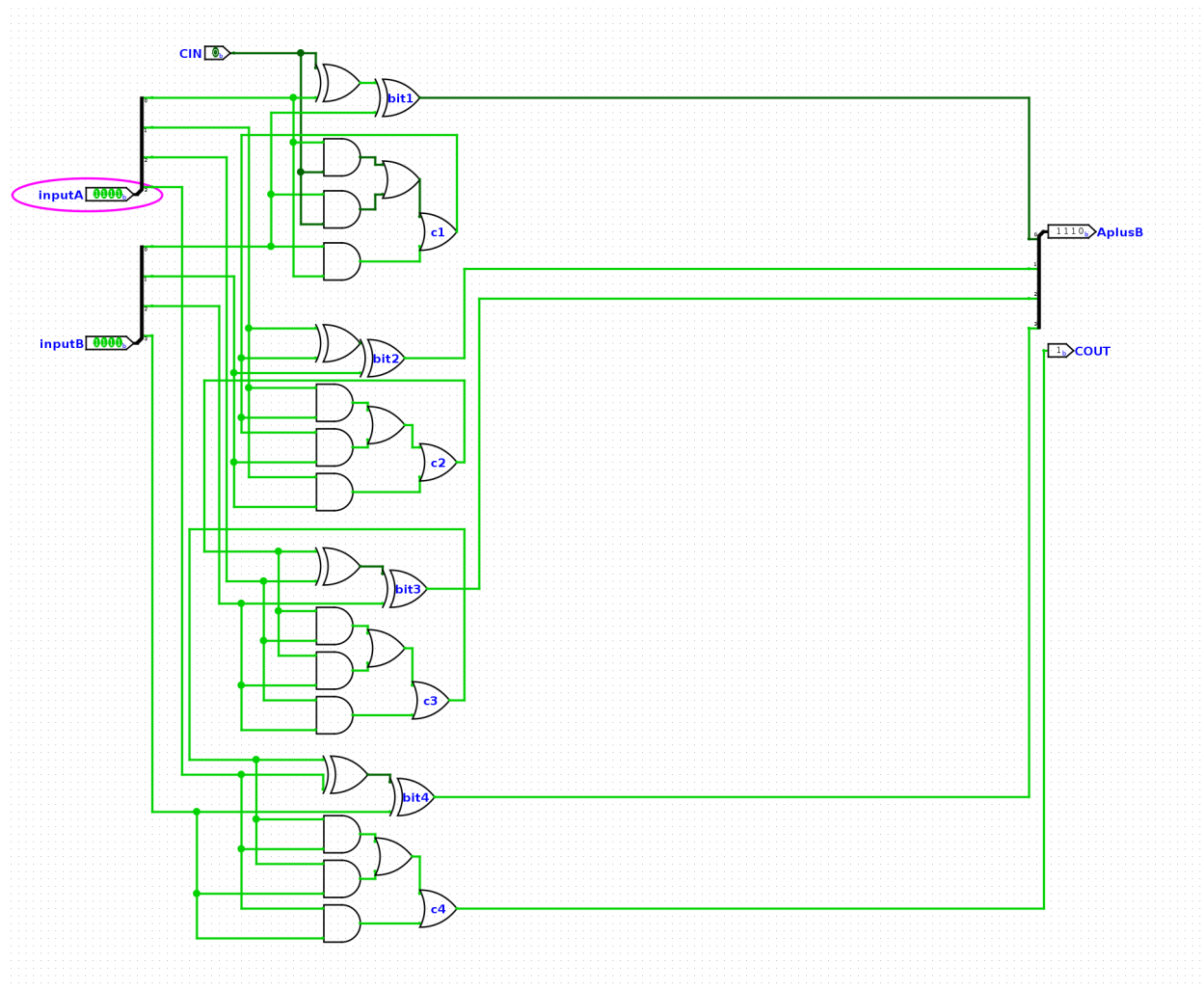
### Task 1 Test 3

A: 1111, B: 1111

Expected: 1110, Carry Out: 1

Works as expected,

I chose this to test what would happen when almost all the wires are turned on simultaneously, and it works fine.



## Task 2

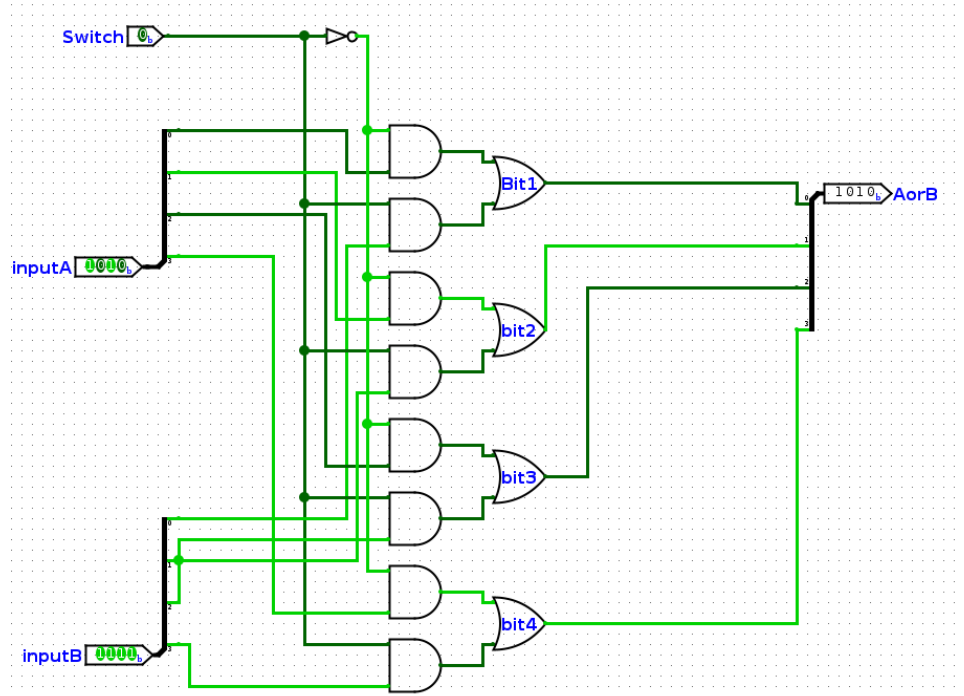
### Test 1

A: 1010, B: 1111, S: 0

Expected: 1010

Works as expected.

I chose this to test if it would give me the A value output when switch is 0 and it did



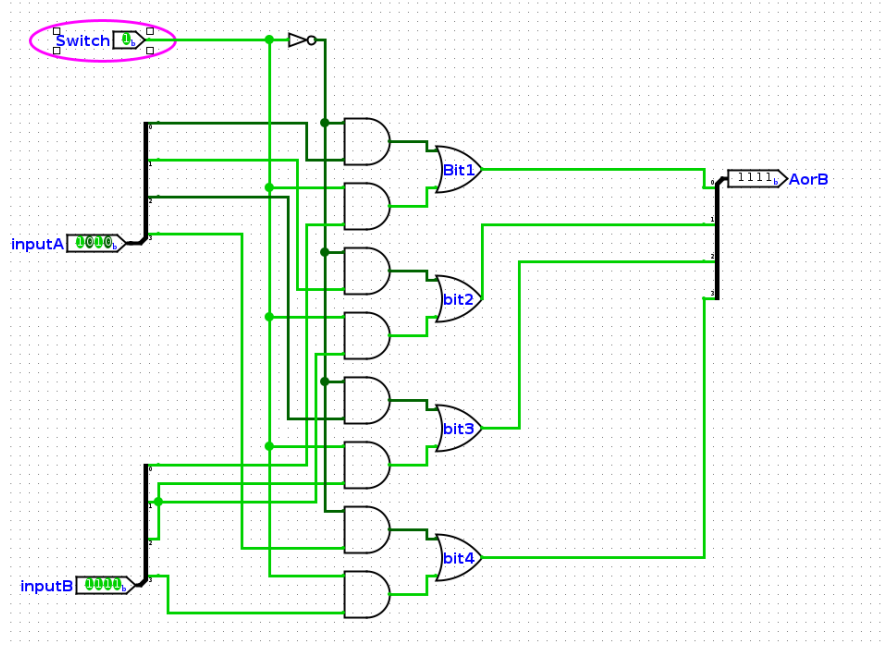
## Task 2 Test 2

A: 1010, B: 1111, S: 1

Expected: 1111

Works as expected

I chose this one to test if it would give me the b output when the switch is 1 which it did



### Task 2 Test 3

A: 0000, B: 1111, S: 0

Expected: 0000

Works as expected

I chose this test case to check the case of all the inputs of A being 0 which works as expected.

