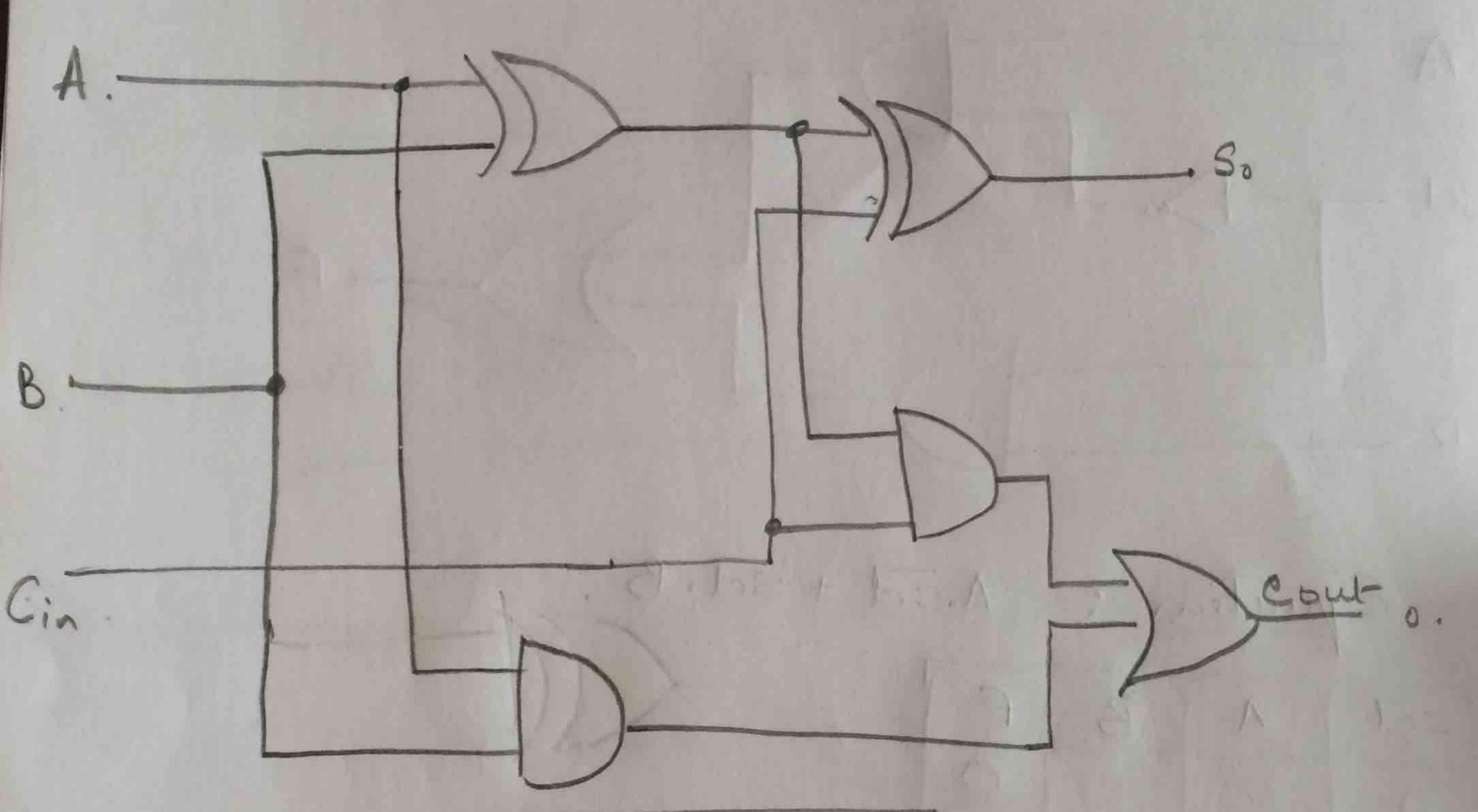


Equation: - A. Sel + Sel. B.

sel	A	B.	P
0	0	0	0
0	0	-	1
0			1
-	0	0	0
1	0	1	
1	I .	0	10
1	1	1	1

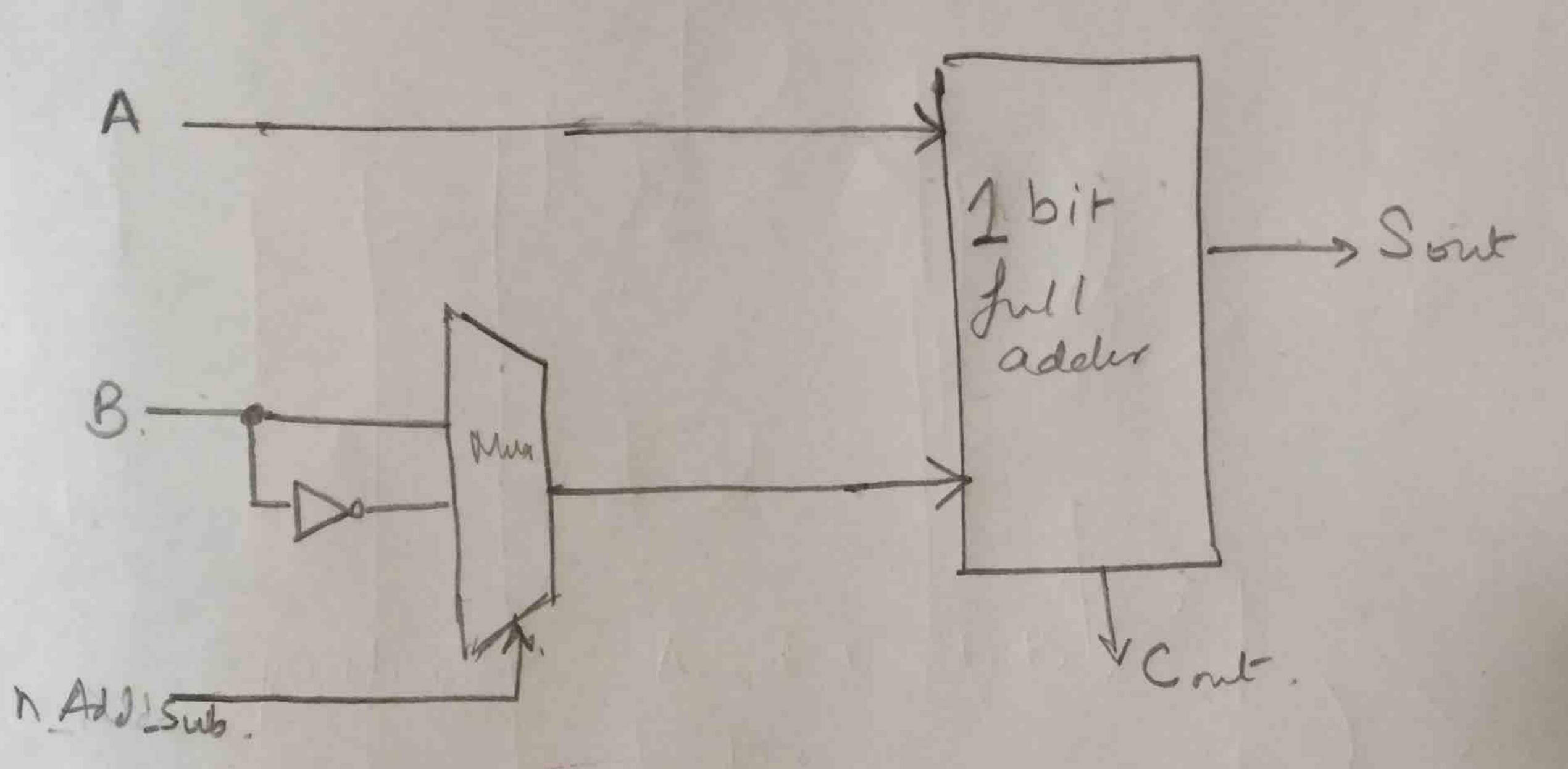
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A	B	cin	50	Cout
0	0	1	1	1
	0		1	10
		1		

Boolean Expression: - S= A &CB & Cin). Cout = B cin + A cin + AB.



nAdd_Sub bit acts as the select for the mux, est cases included:

1	A	B	nAddSub	·Sout	Cout.
1.	0	0	0	0	Adds, and outputs of Subtracts 1 10 mis a
2				0	Subtracts and there is a carry bit.
	0	0		0	Bussenses.
3.		h			Subtracts and outputs 1
4.					& Subtract and has
5.	1	1		W 1	a camy bit.

I included the above test cases because the test all values and conditions under which the circuit should work.