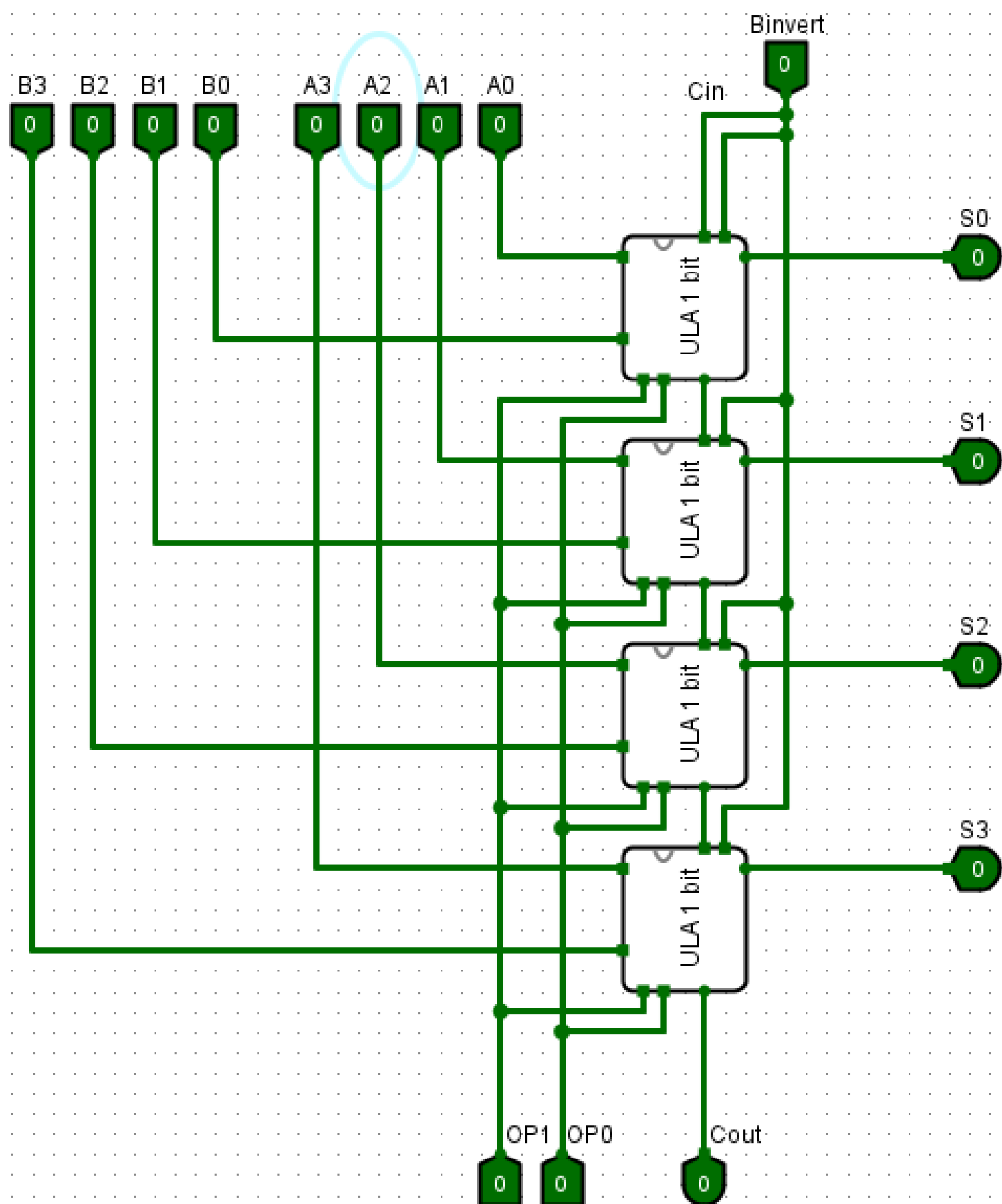
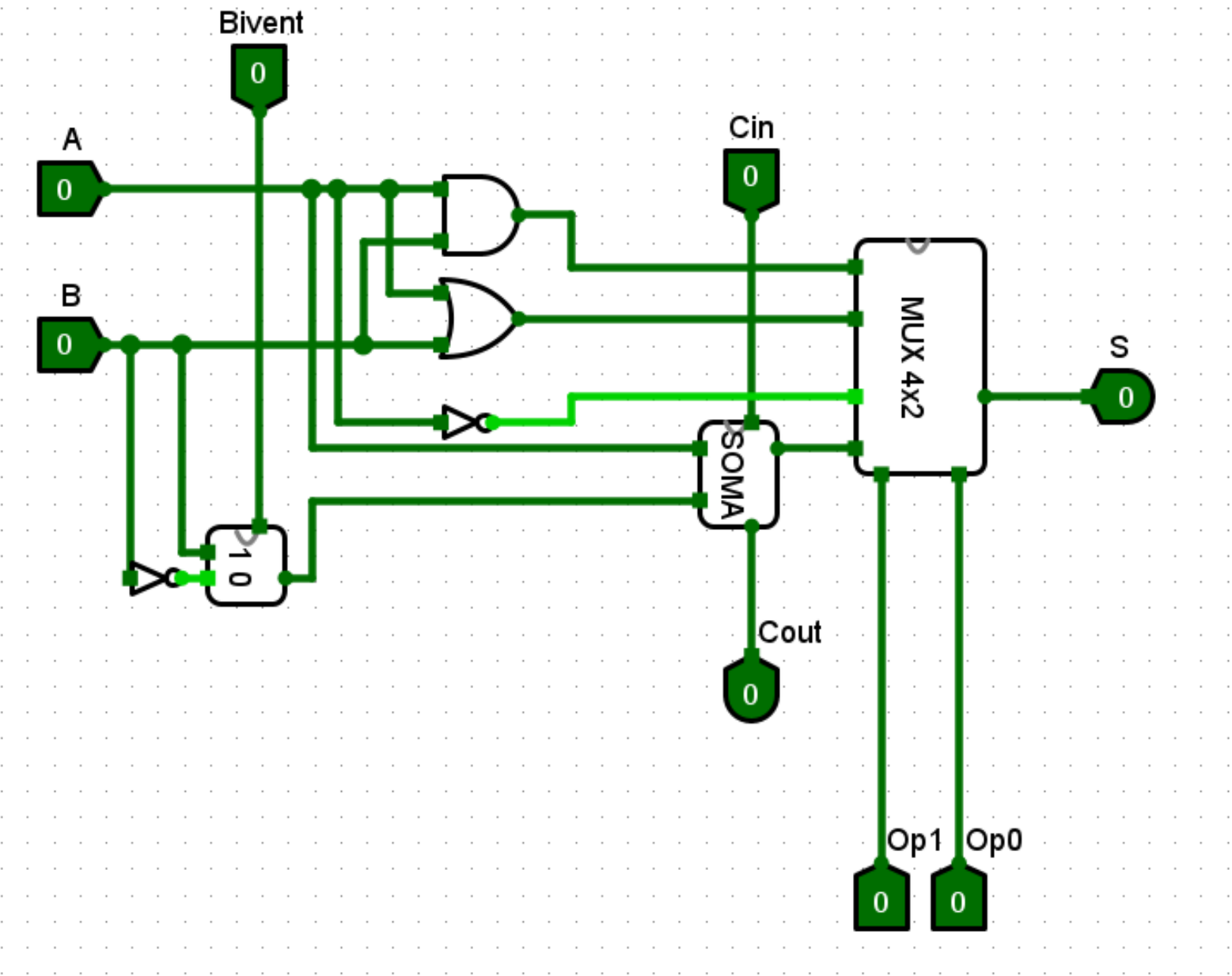


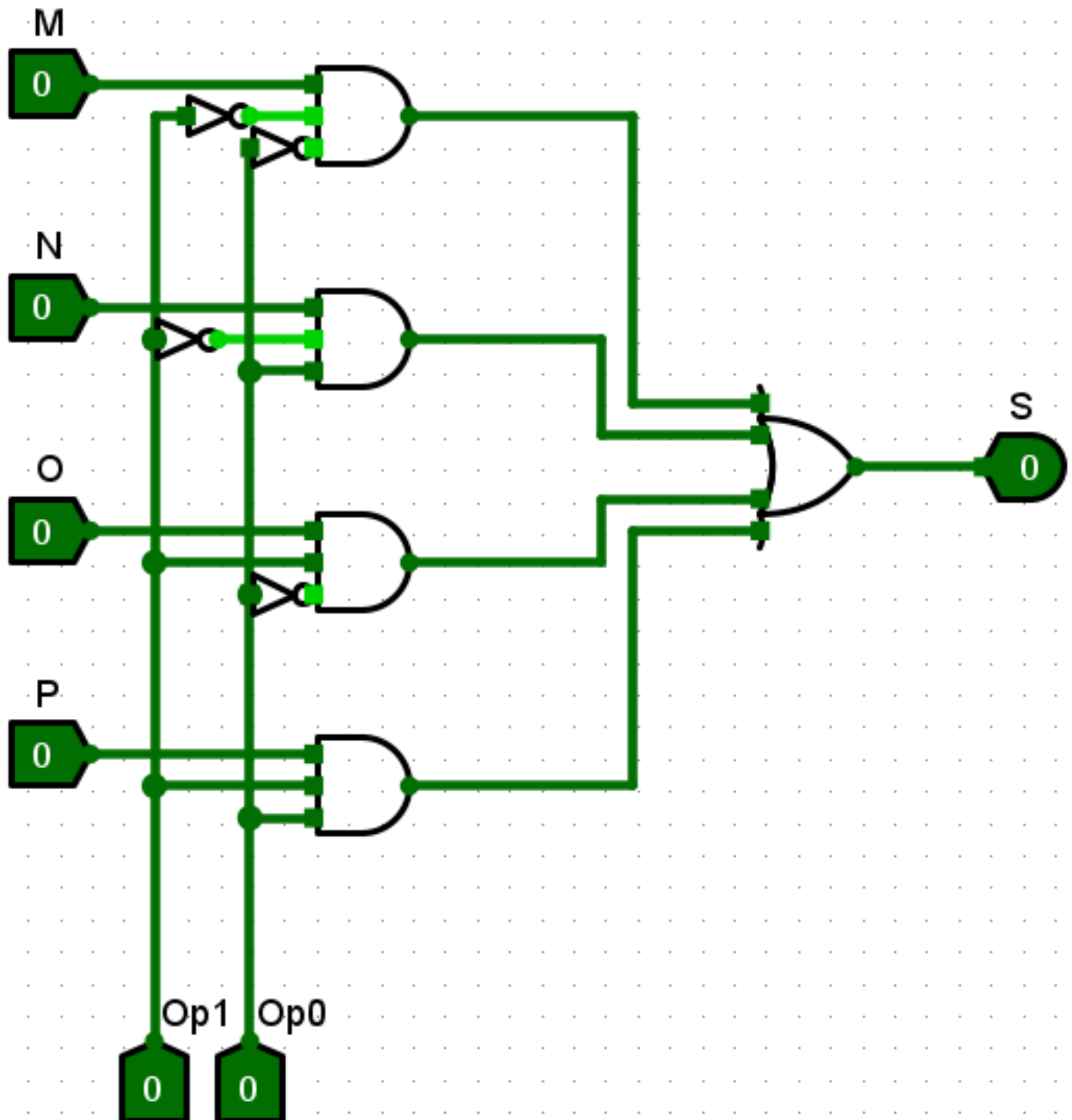
ULA 4Bits



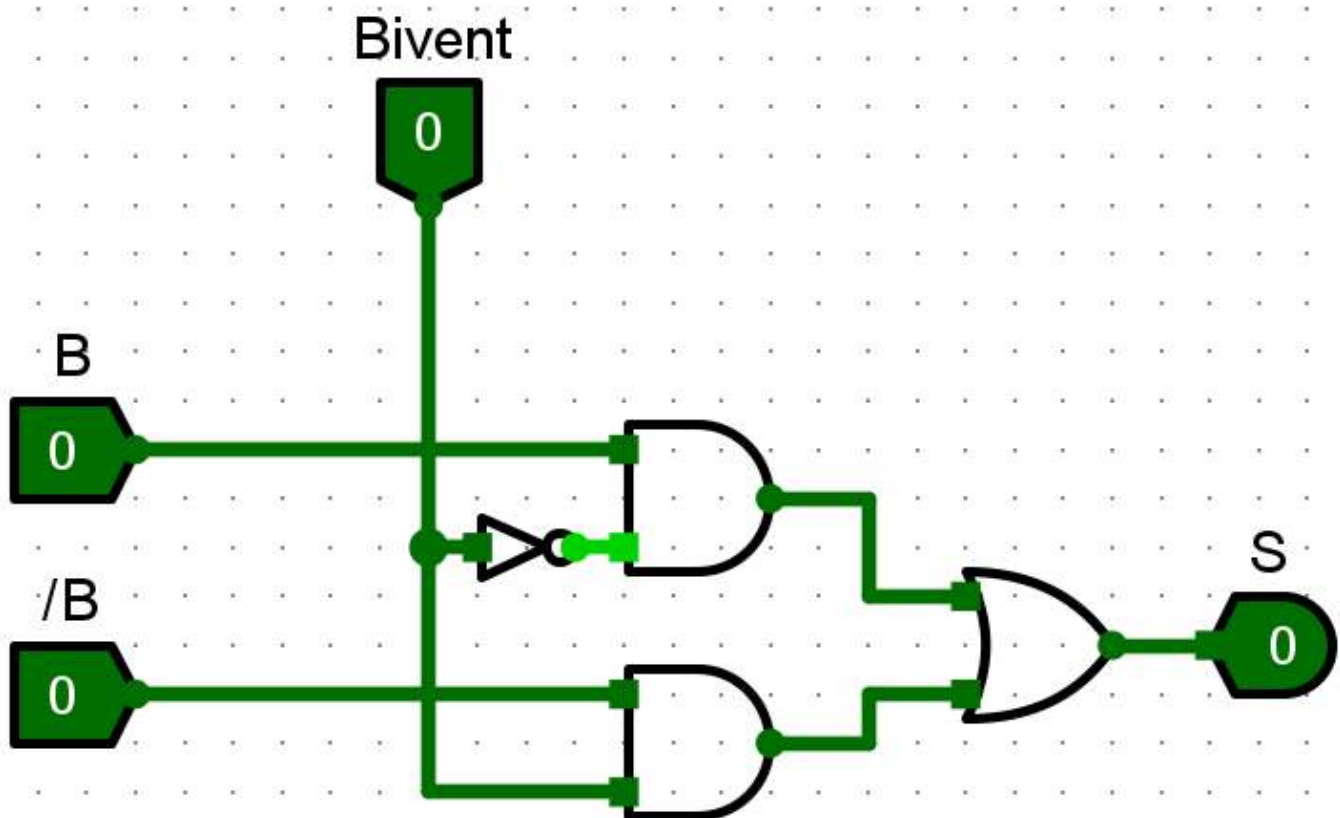
ULA 1Bit



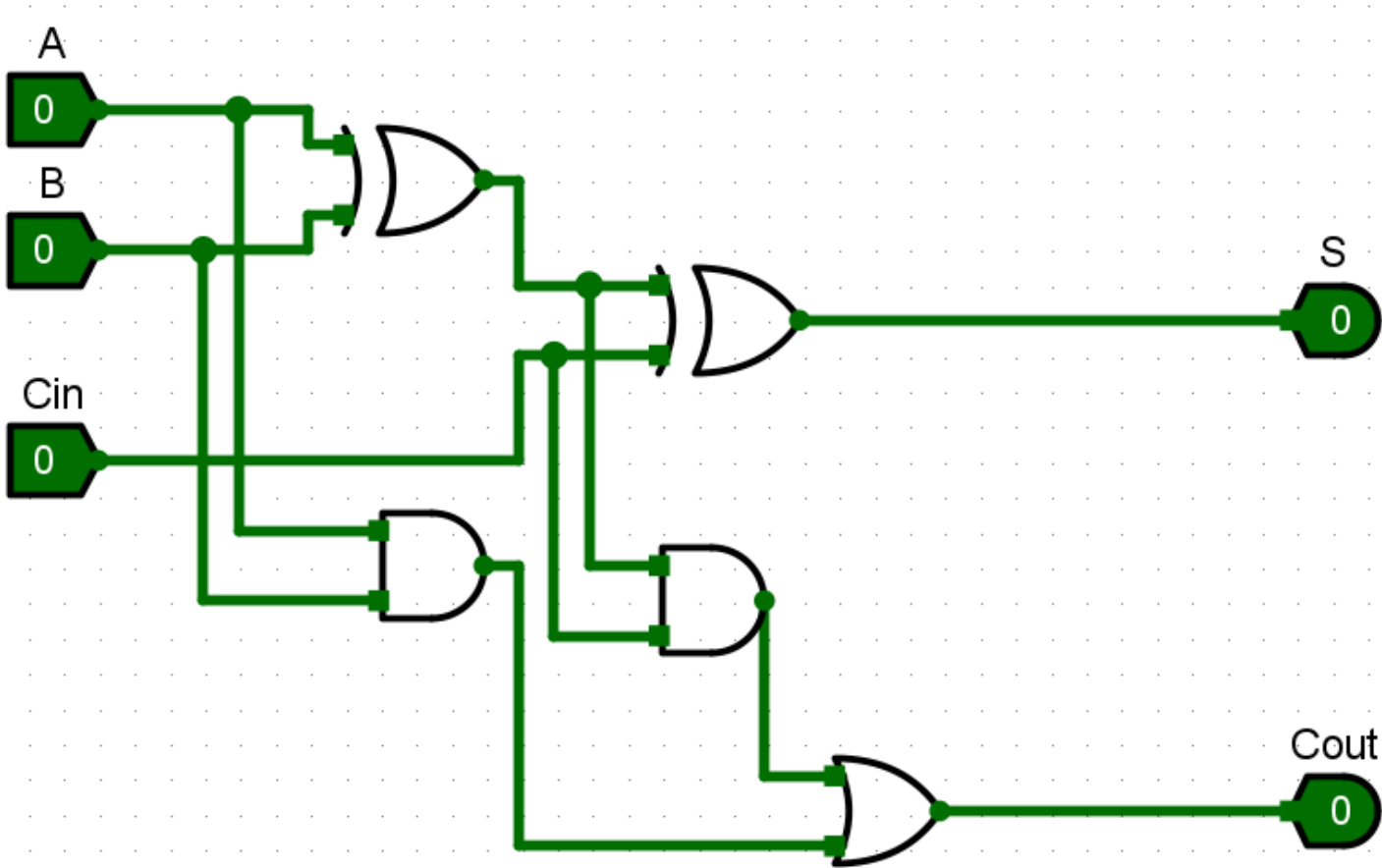
MUX 4x1



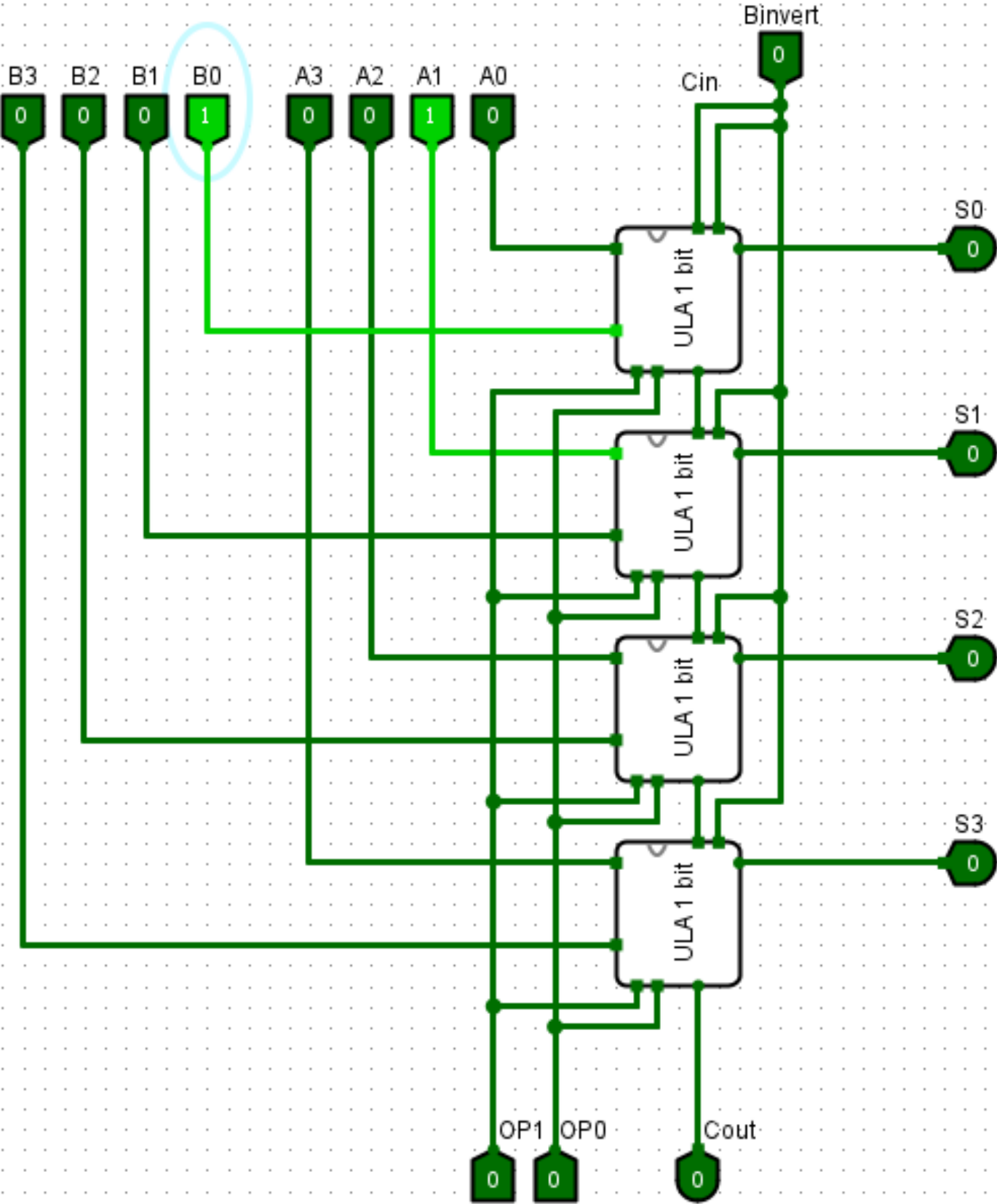
MUX 2x1



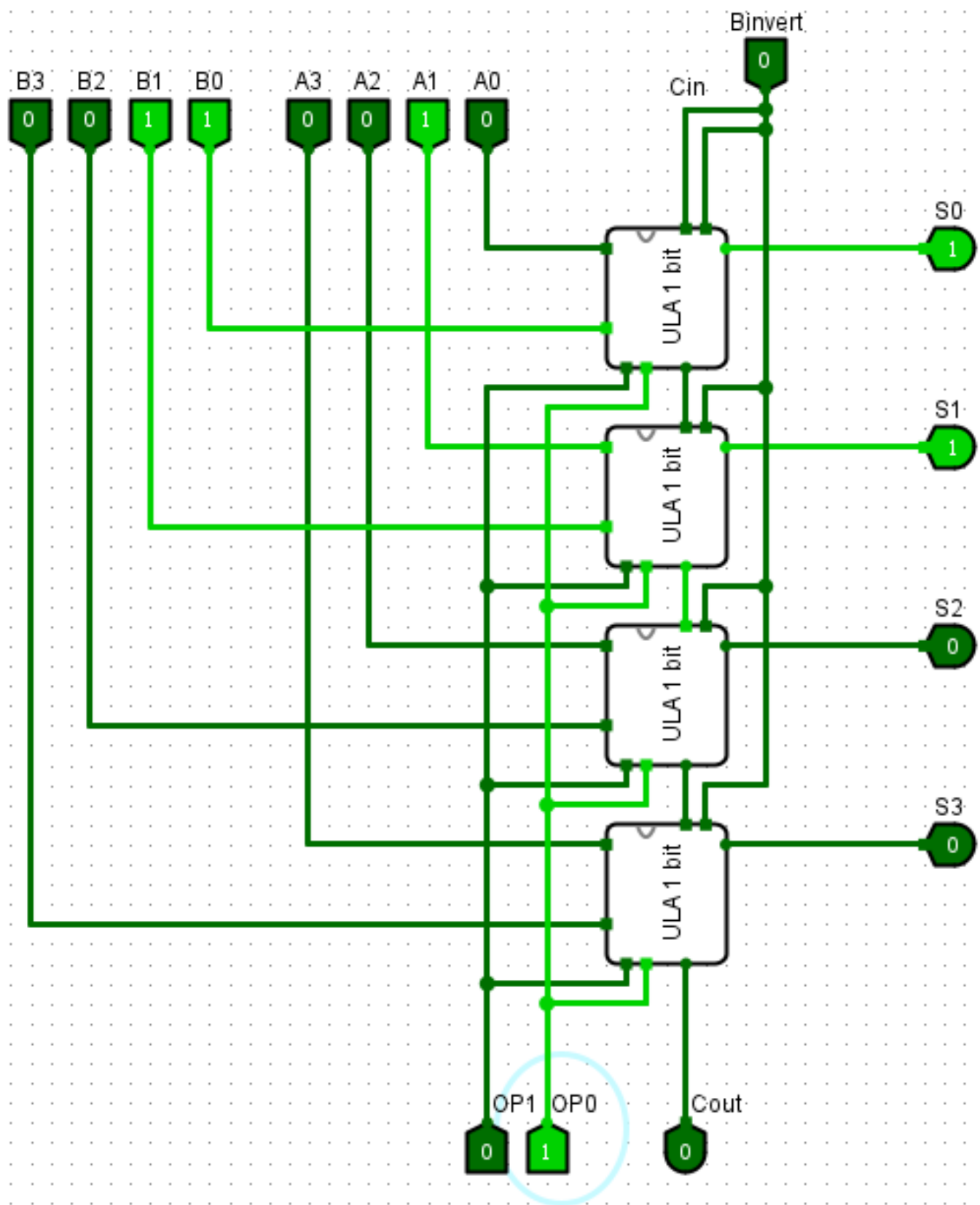
Soma



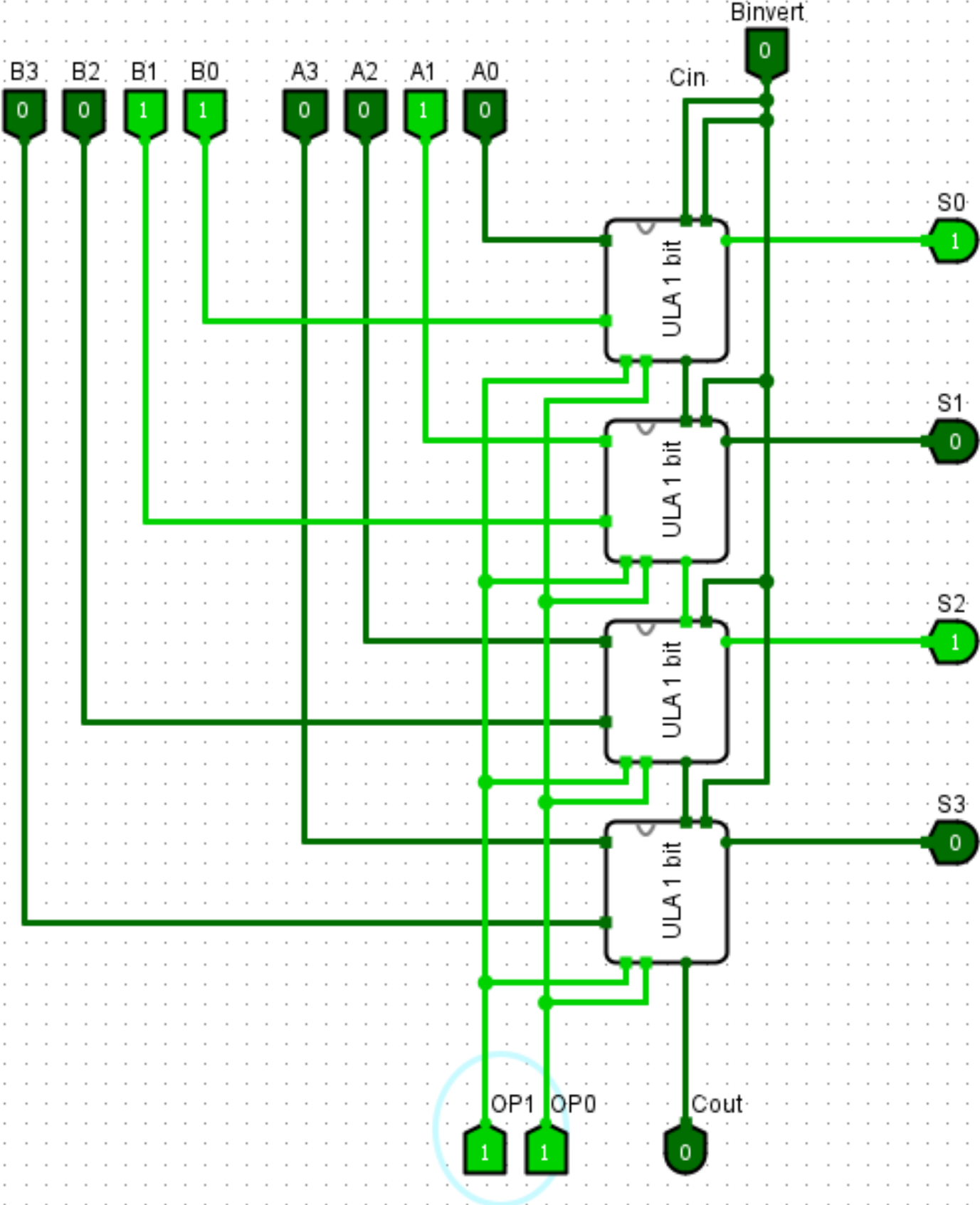
AND(A,B);



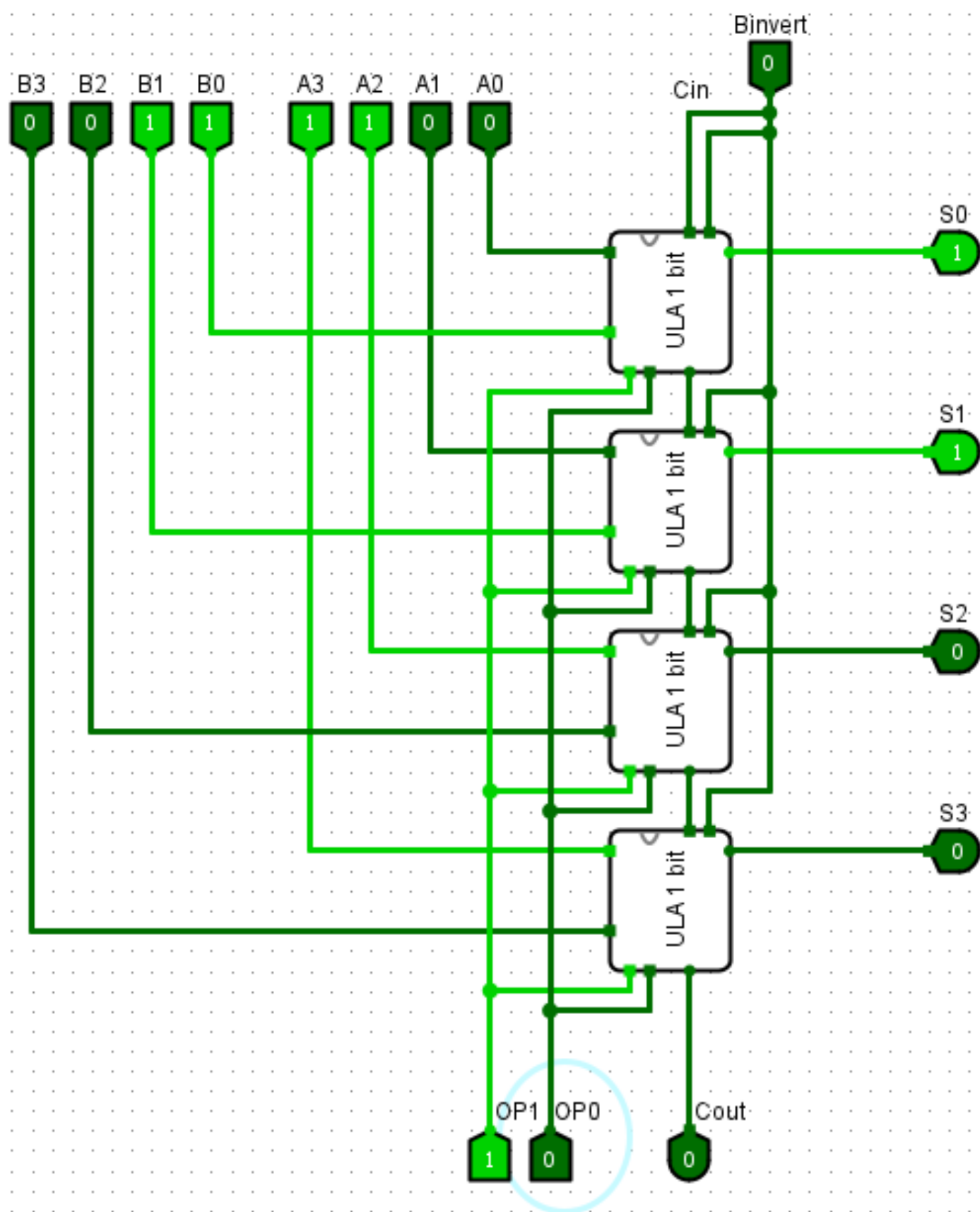
OR(A,B);



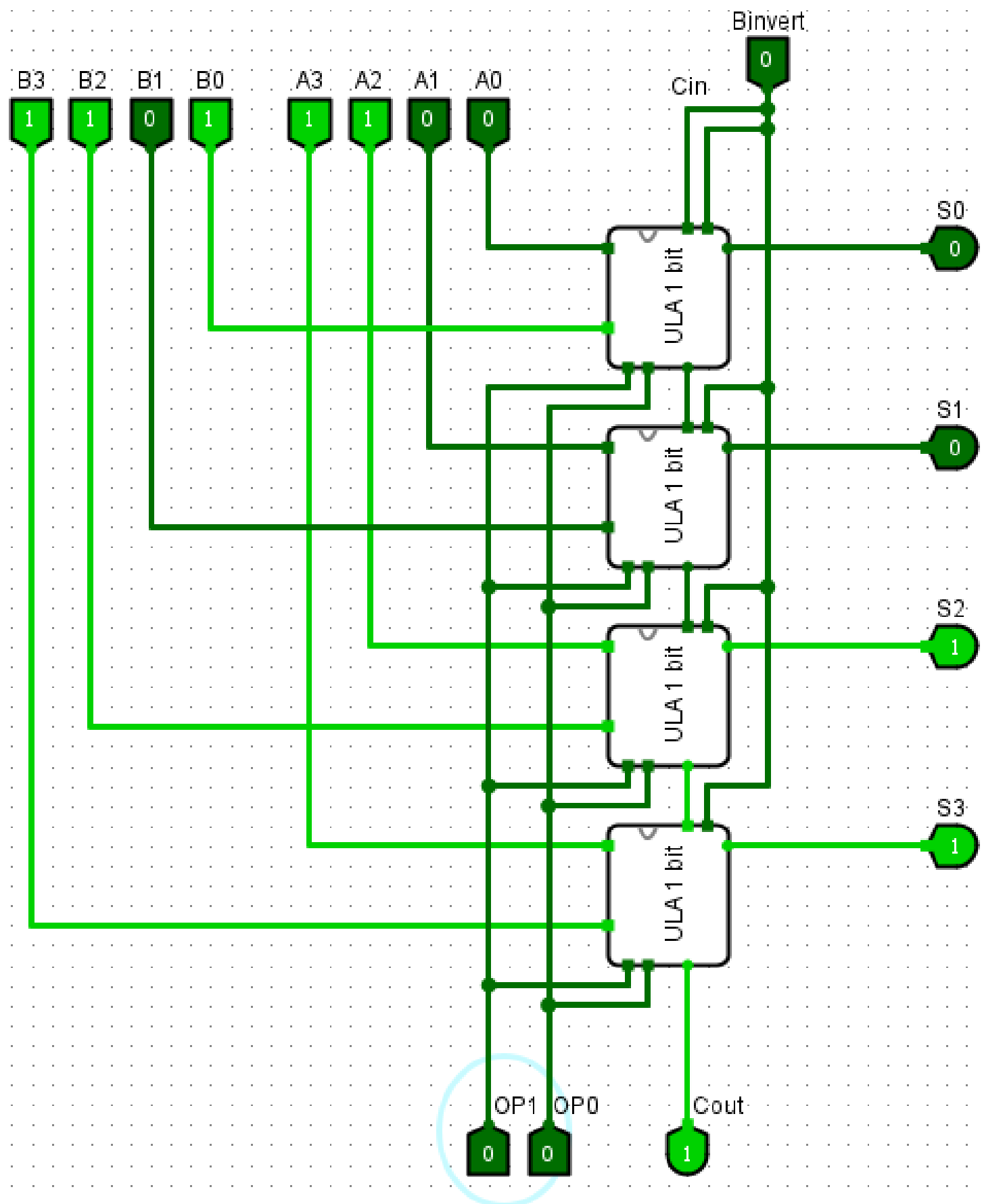
SOMA(A,B);



NOT(A);

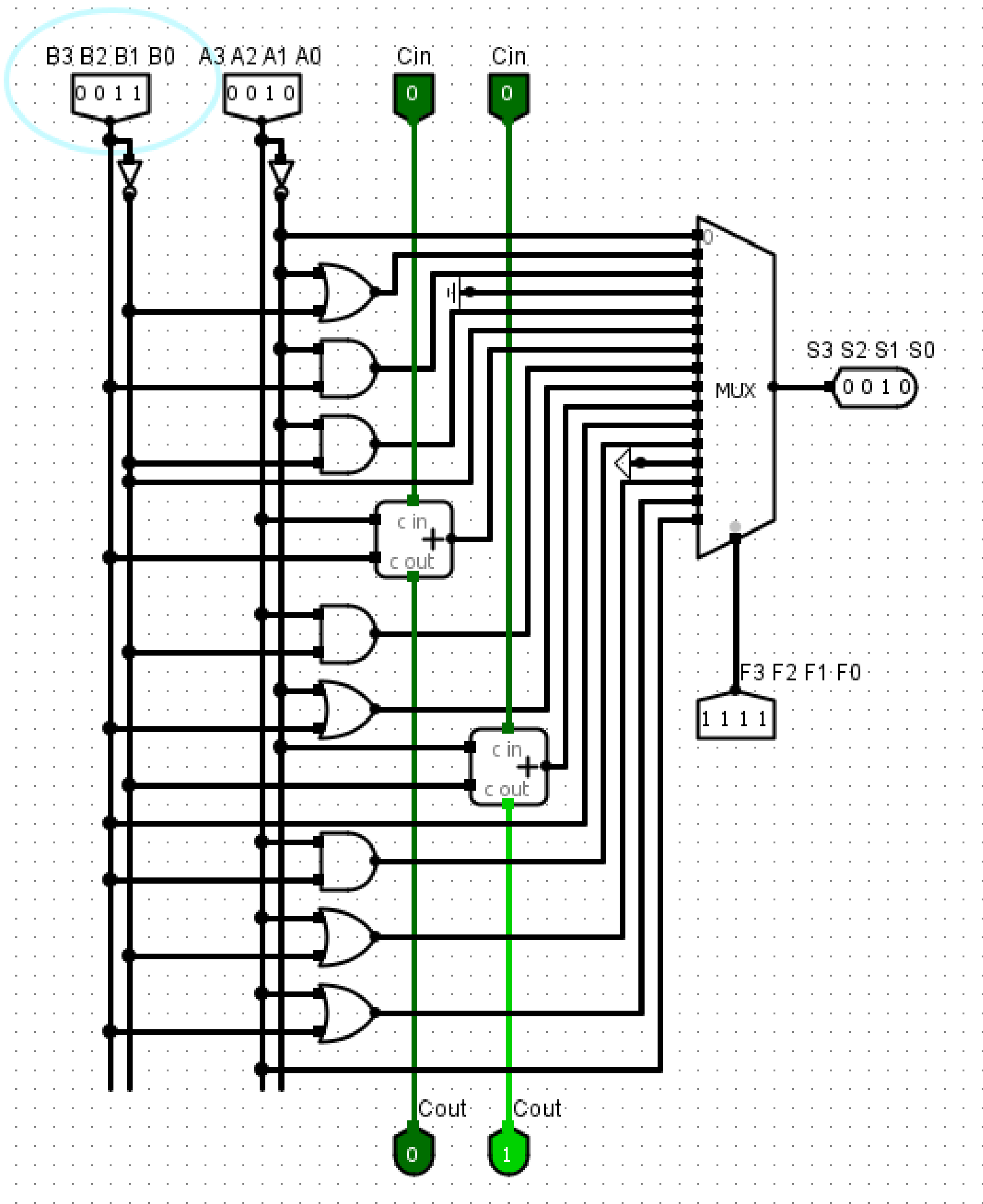


AND(B,A);



Instrução Realizada	Binário (A,B,Op.code)	Valor em Hexa (0x ...)	Resultado em binário
AND(A,B)	0010 0001 00	(0000 1000 0100) = 0x084	0000
OR(A,B)	0010 0011 01	(0000 1000 1101) = 0x08D	0011
SOMA(A,B)	0010 0011 11	(0000 1000 1111) = 0x08F	0101
NOT(A)	1100 0011 10	(0011 0000 1110) = 0x30E	0011
AND(B,A)	1100 1101 00	(0011 0011 0100) = 0x334	1100

ULA 74ls181



Instruções	Binário	Resultado da Operação
450	0100 0101 0000	1011 = 11
CB1	1100 1011 0001	0111 = 7
A32	1010 0011 0010	0001 = 1
C43	1100 0100 0011	0000 = 0
124	0001 0010 0100	1100 = 12
785	0111 1000 0101	0111 = 7
9B6	1001 1011 0110	0100 = 4
CD7	1100 1101 0111	0000 = 0
FE8	1111 1110 1000	1110 = 14
649	0110 0100 1001	0100 = 4
D9A	1101 1001 1010	1001 = 9
FCB	1111 1100 1010	1100 = 12
63C	0110 0011 1100	1111 = 15
98D	1001 1000 1101	1111 = 15
76E	0111 0110 1110	0111 = 7
23F	0010 0011 1111	0010 = 2

Resposta:

$2^{12} = 4096$ colunas na tabela verdade indo de 0(0000 0000 0000) a 4095(1111 1111 1111).