

Aula 03

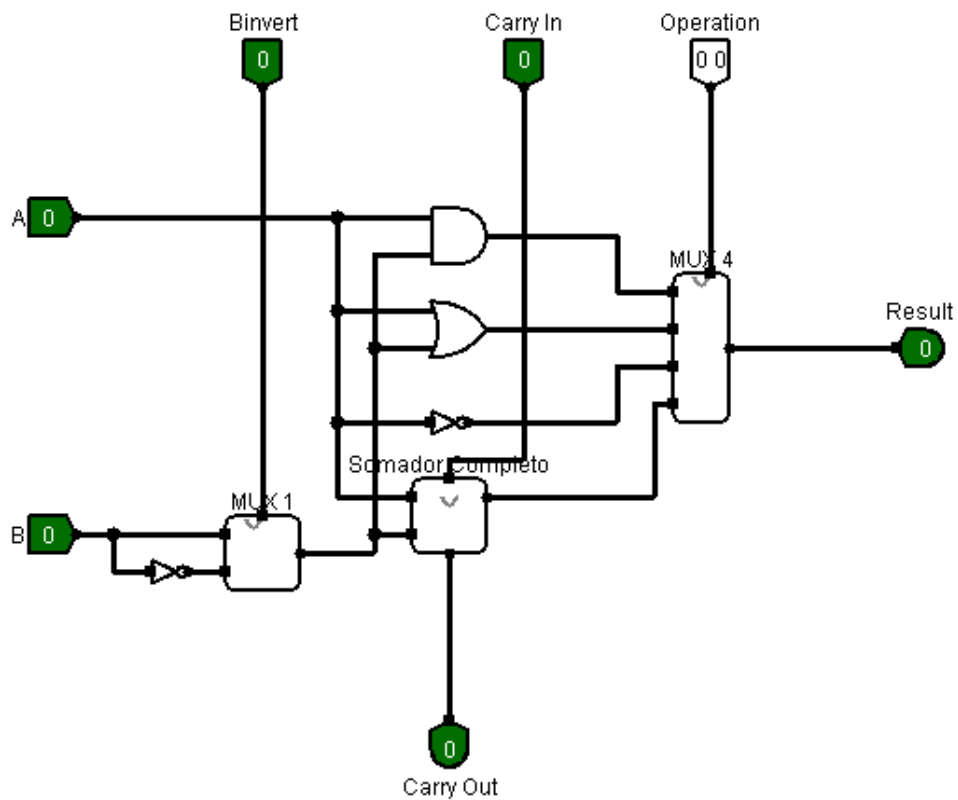
Nome: Guilherme Fróes Camba de Freitas | Matricula: 718116

Nome: Bernardo Ferreira Temponi | Matricula: 699469

Nome: Diego Basilio Arruda | Matricula: 701139

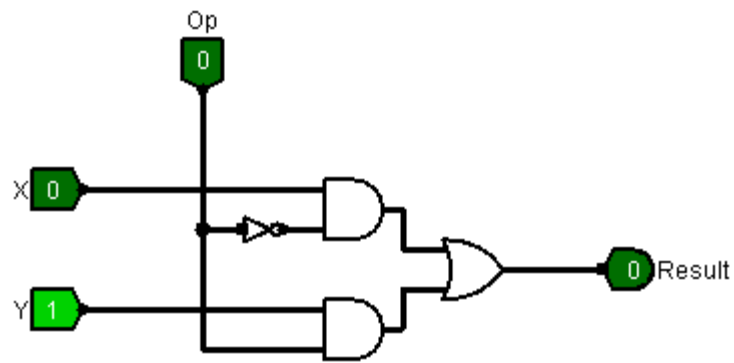
Unidade Logica Aritimetica (ULA)

1. Logisim



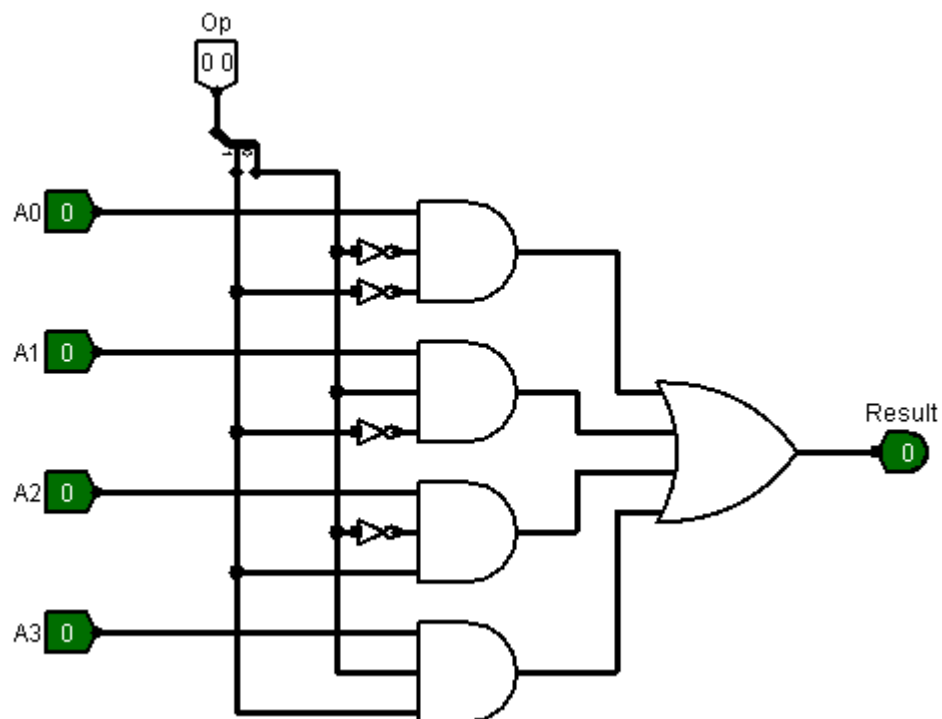
MUX 1 bit

1. Logisim



MUX 4 bit

1. Logisim



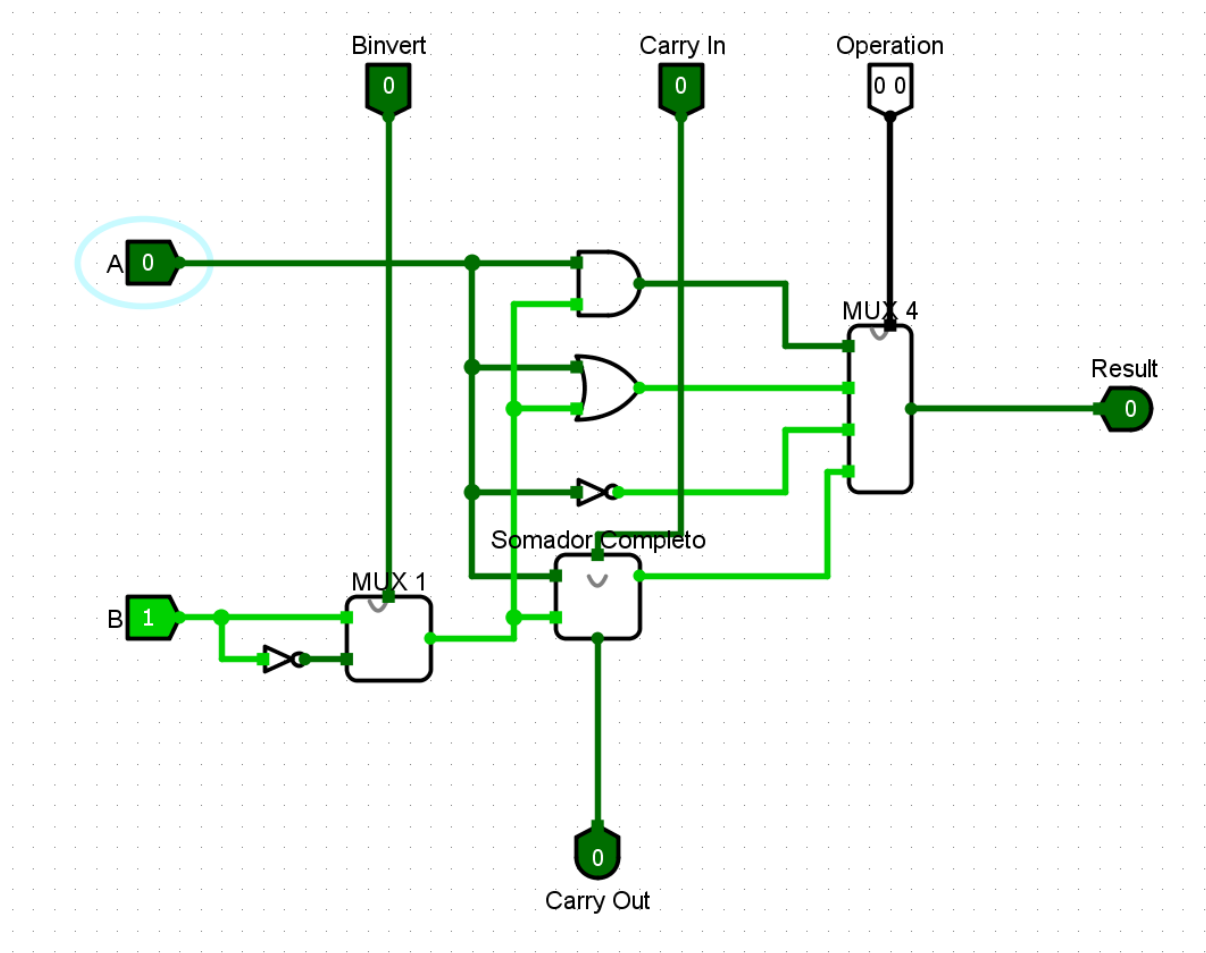
Teste da ULA

Inicio:

A=0;

B=1;

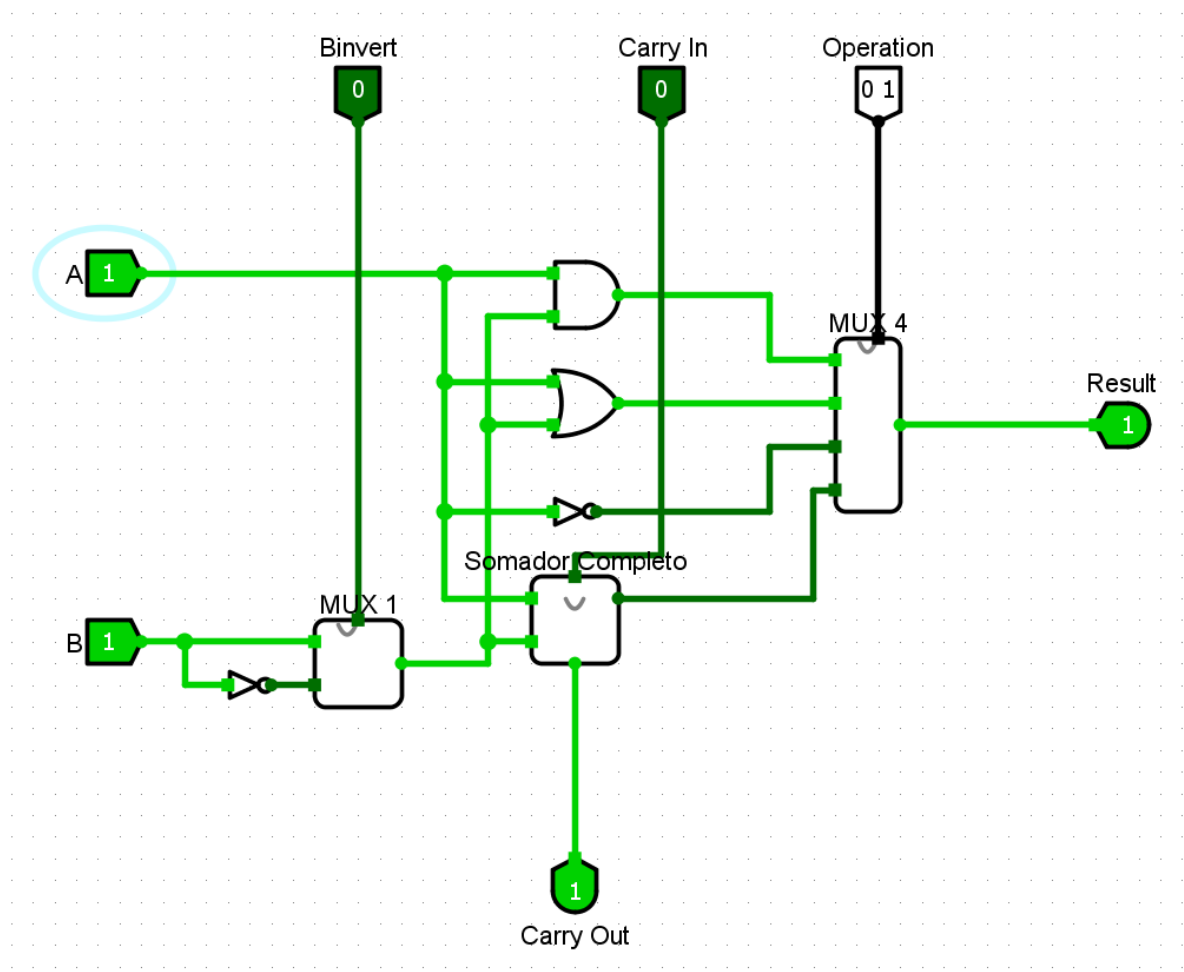
AND(A,B);



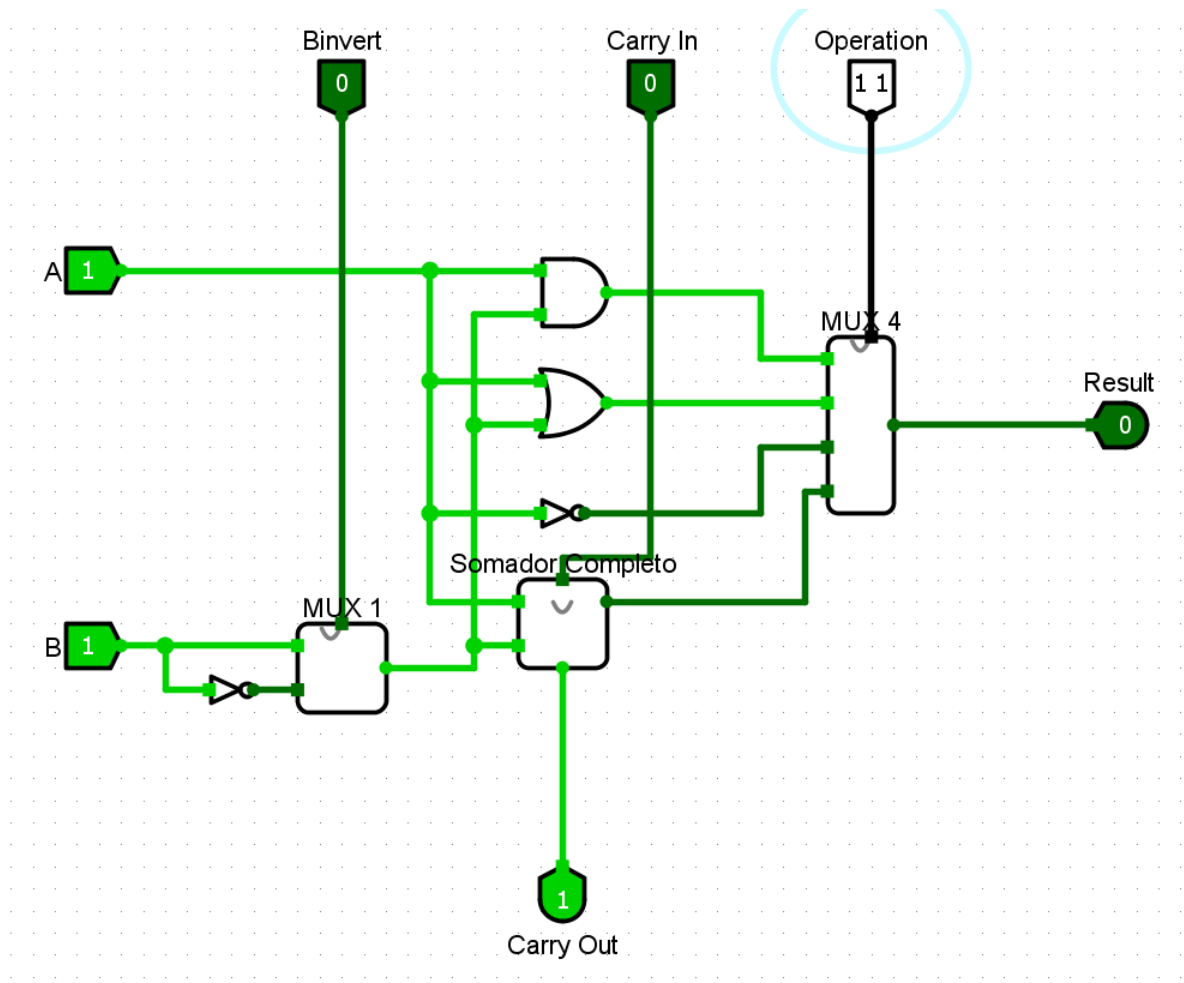
A=1;

B=1;

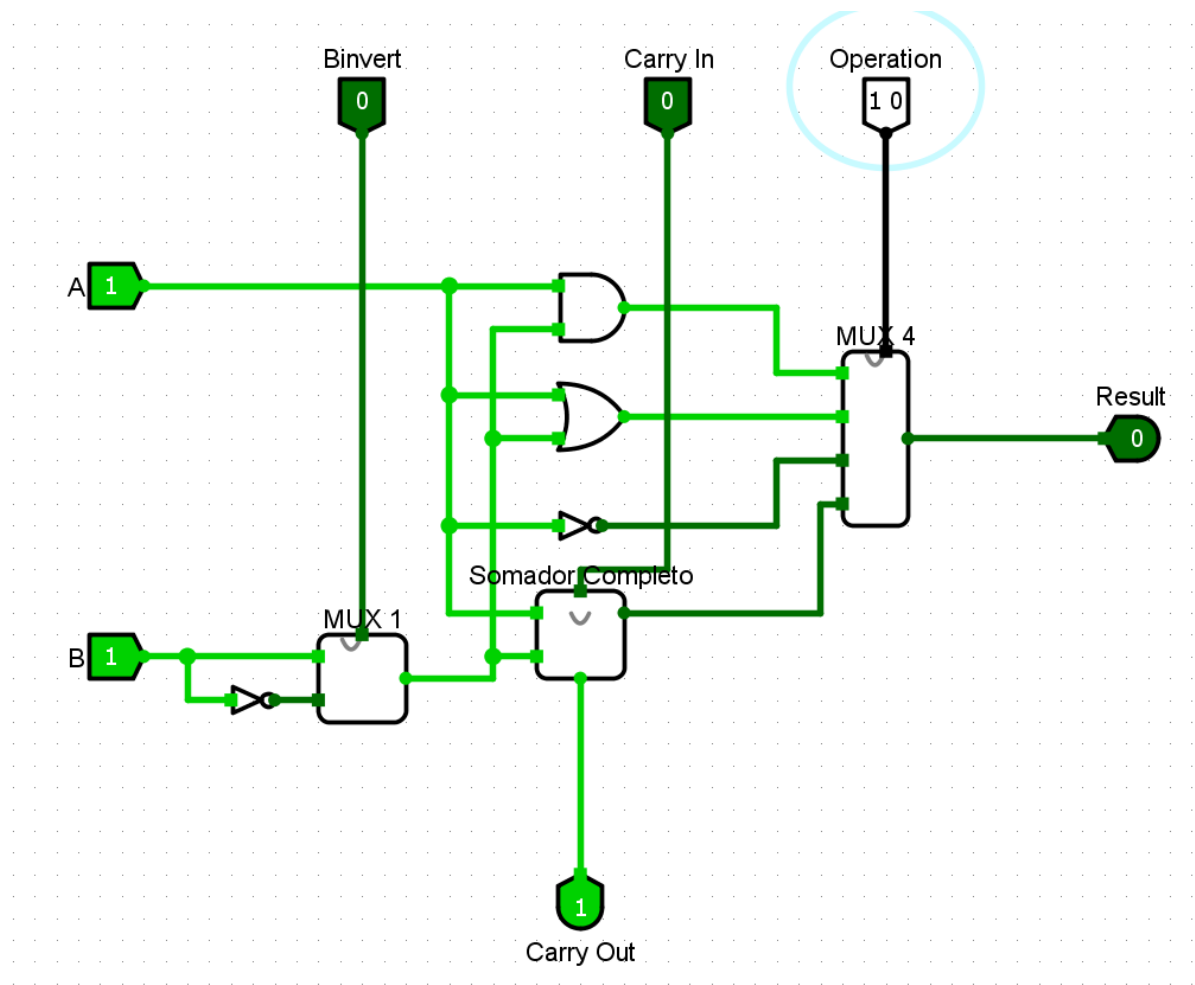
OR(A,B);



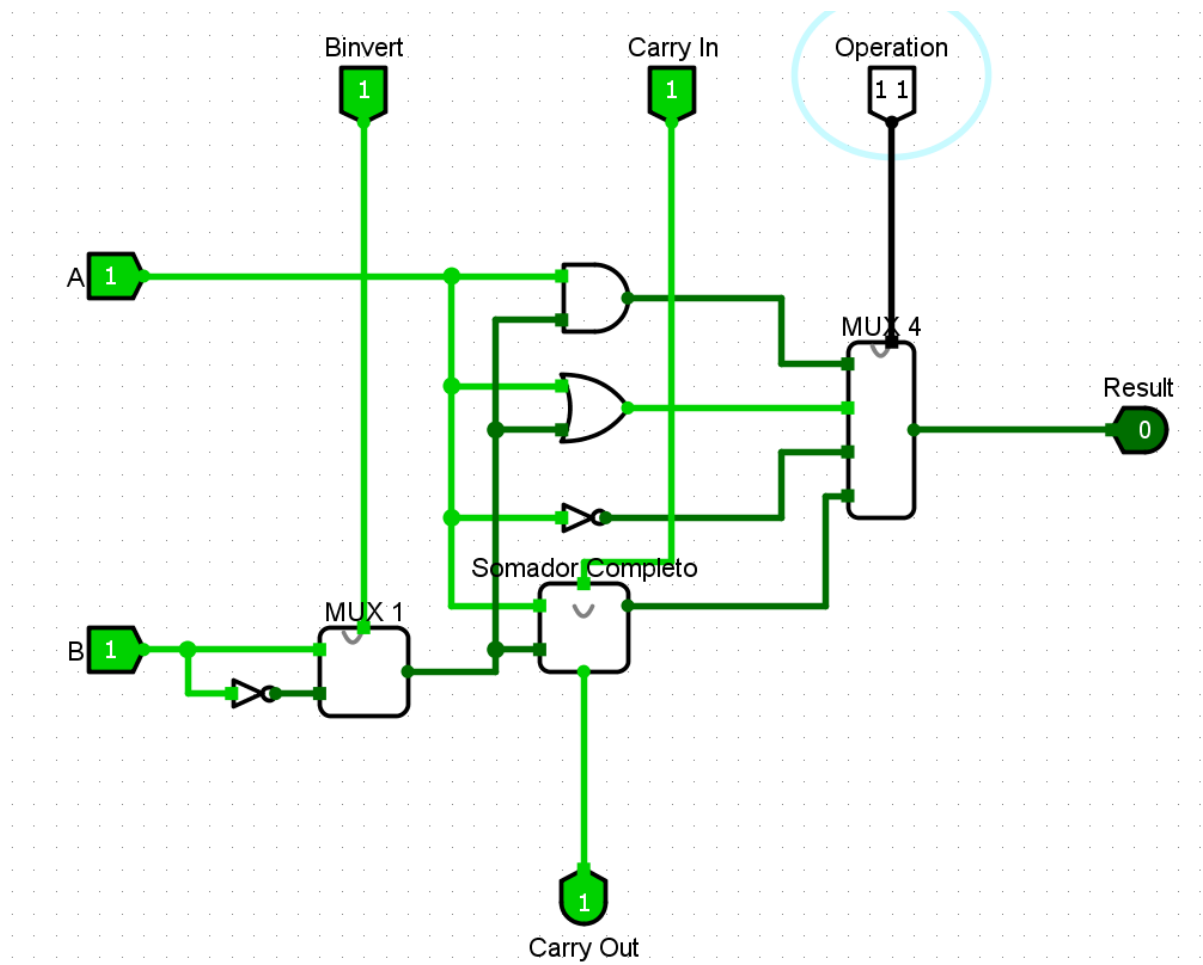
SOMA(A,B);



NOT(A);



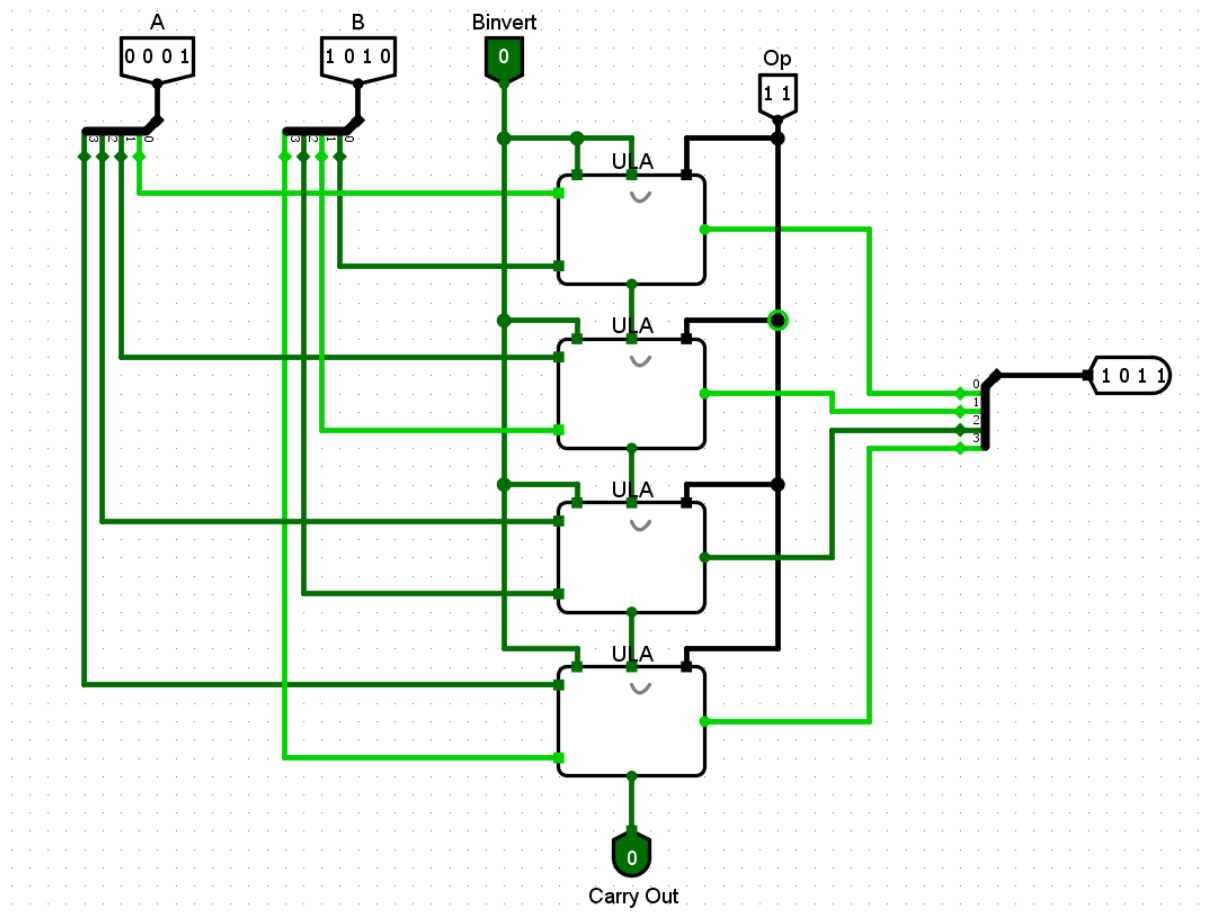
SOMA (A,-B);



Fim.

Unidade Logica Aritimetica 4 bits (ULA 4)

1. Logisim



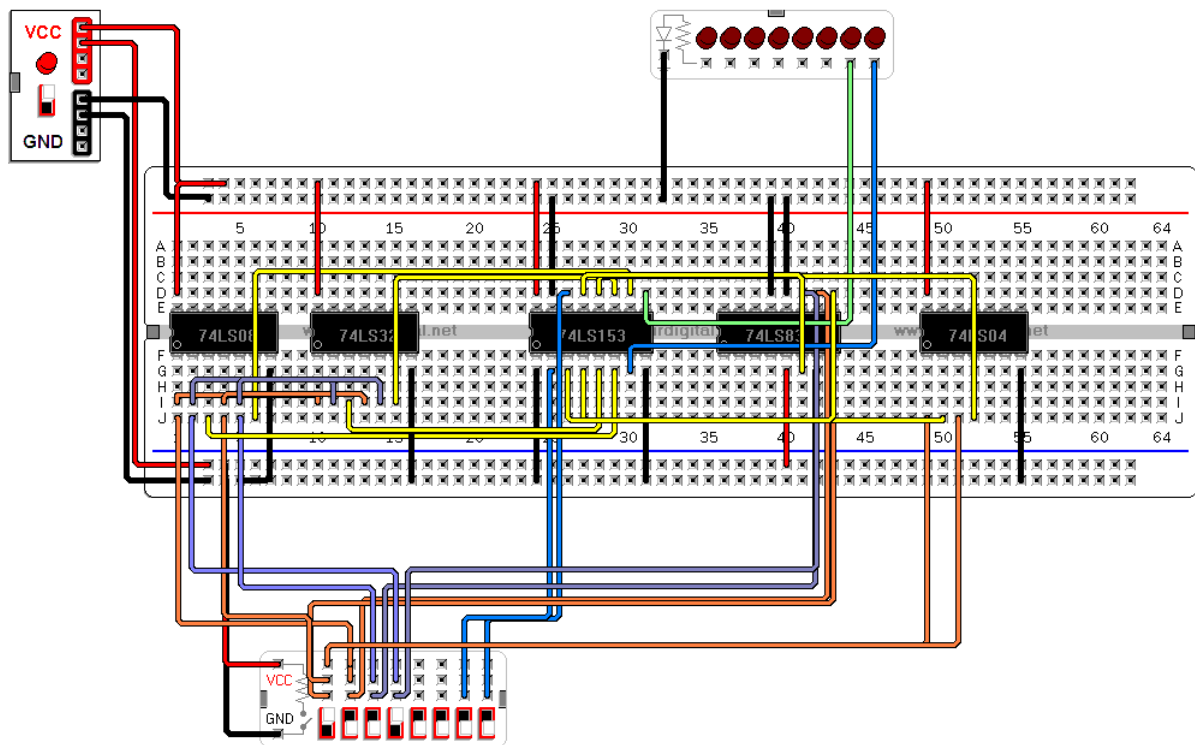
2. Simulador 97

Inicio:

A=2;

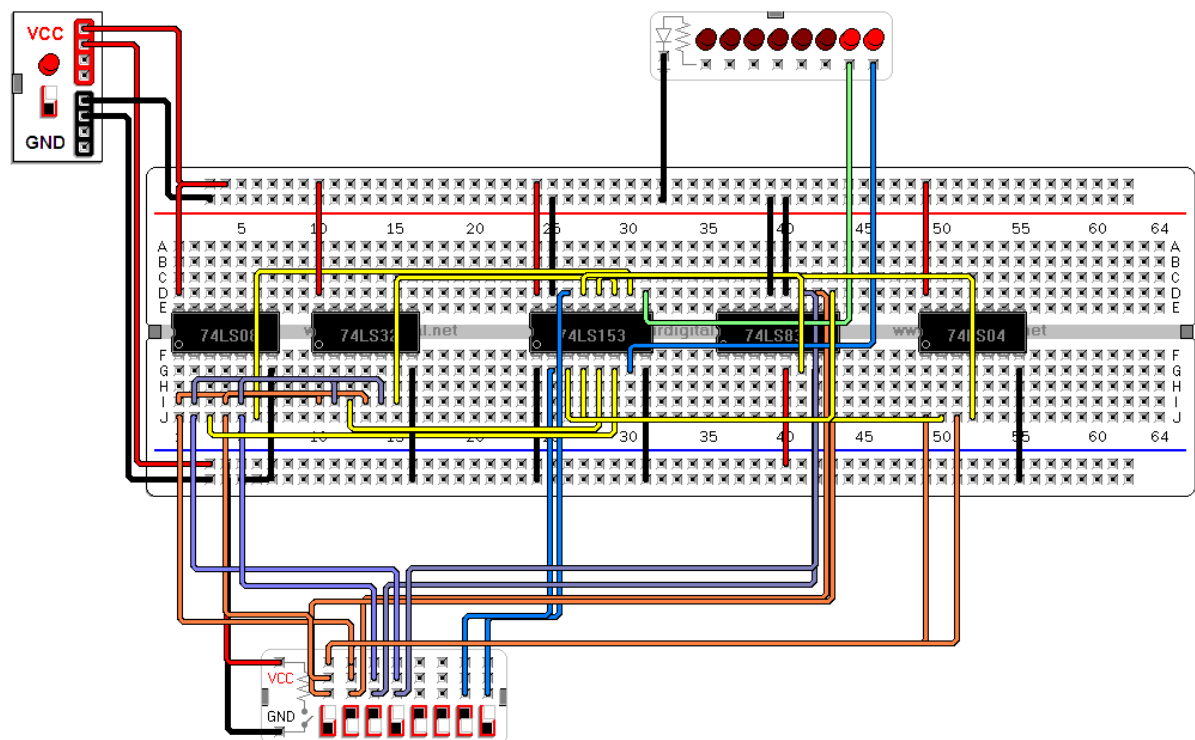
B=1;

AND(A,B);

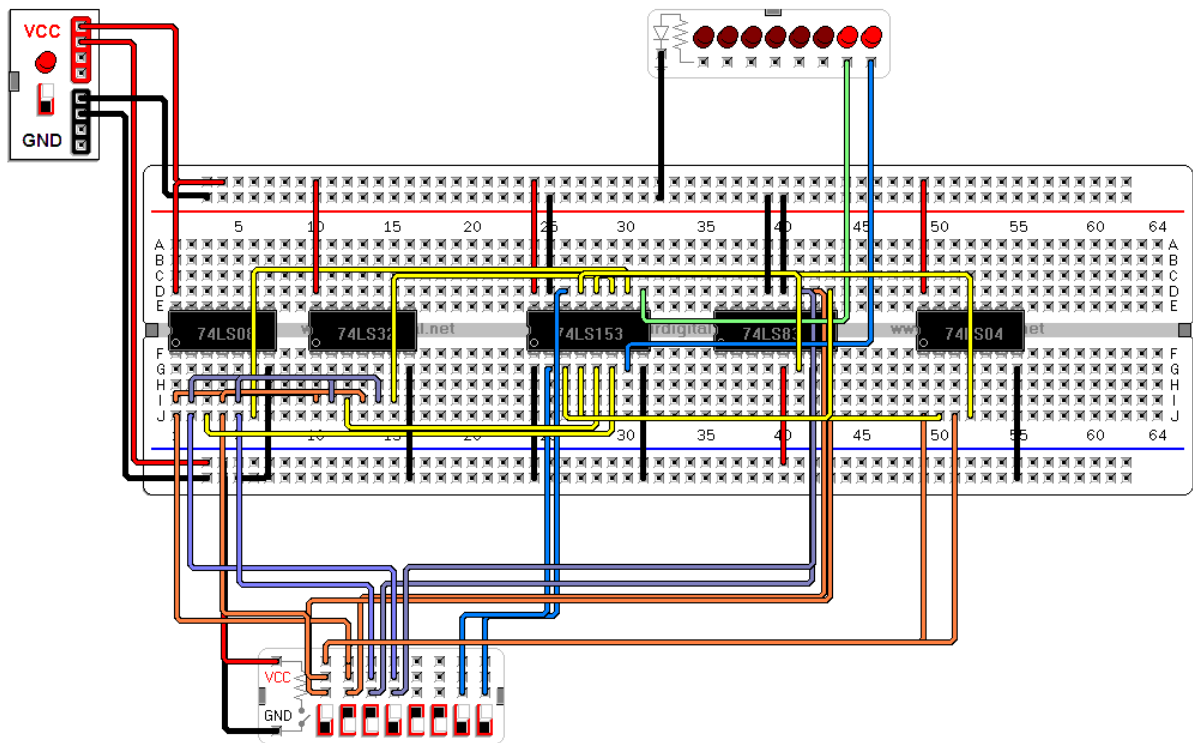


B=1;

OR(A,B);

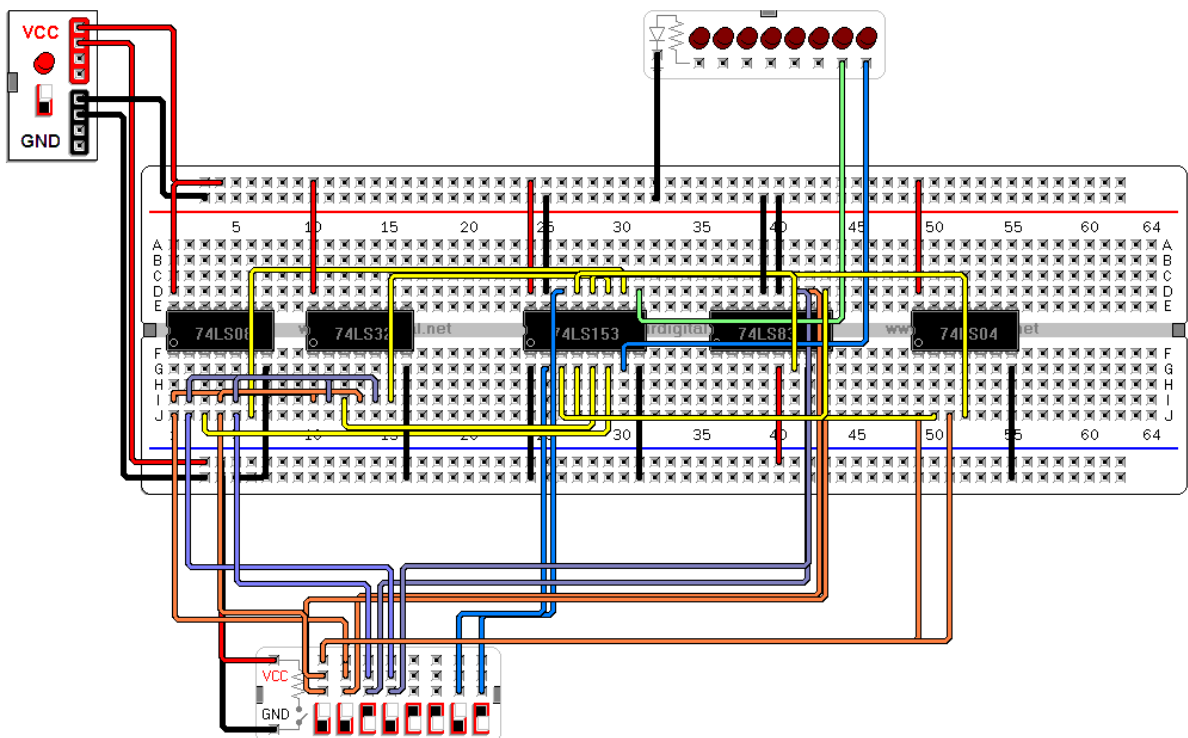


SOMA(A,B);



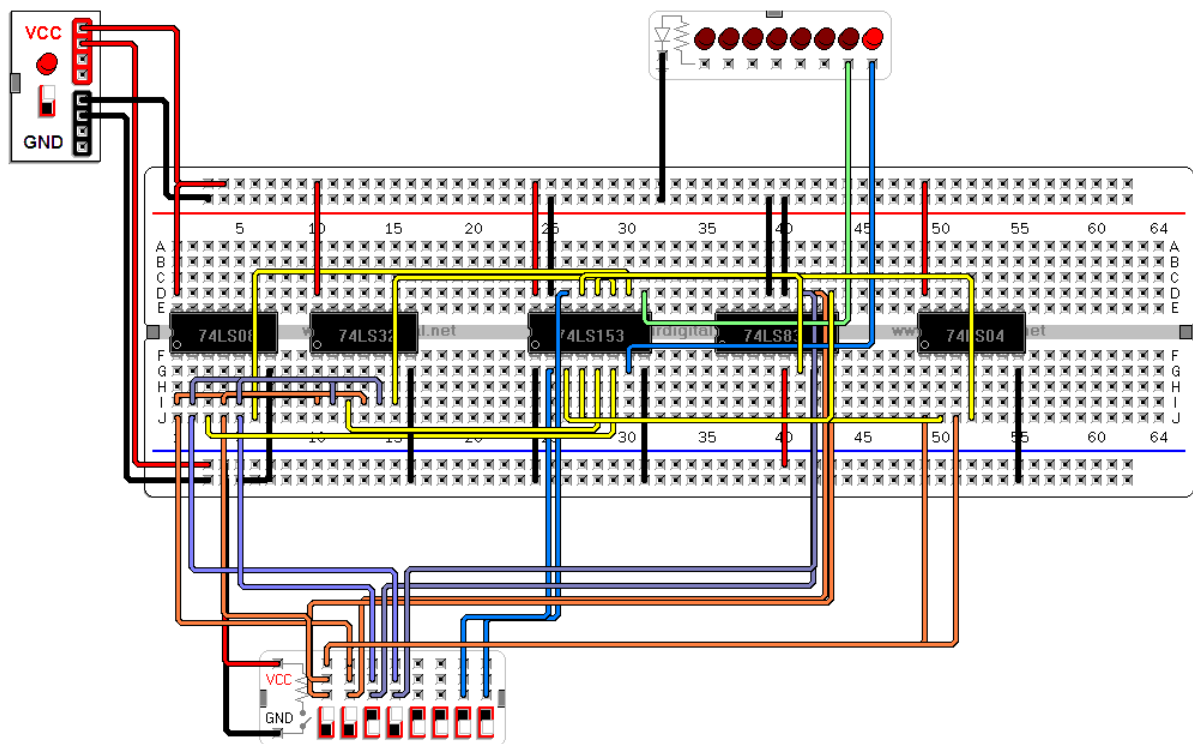
A=3;

NOT(A);



B=1;

AND(B,A);



Fim.

Instrução realizada	Binário (A,B,Op.code)	Valor em Hexa	Resultado em binário
And(a,b)	10 01 00	24	00
Or(a,b)	10 01 01	25	11
Soma(a,b)	10 01 11	27	11
Not(a)	11 01 10	36	00
And(b,a)	11 01 00	34	01