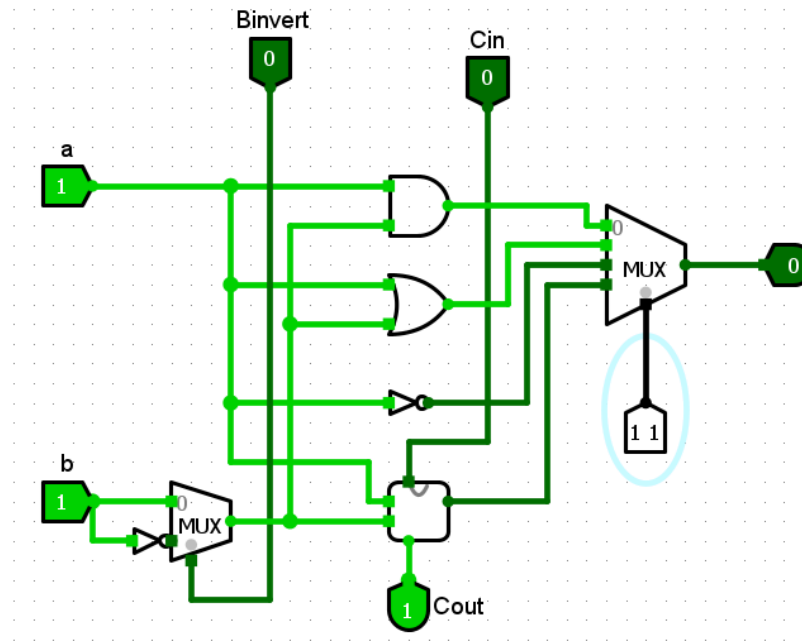


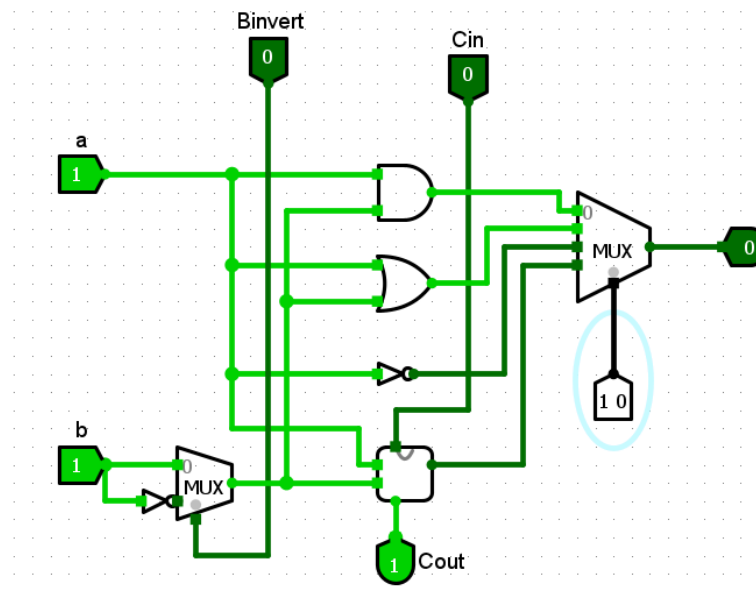
Parte 1 =>

- ### Operações:

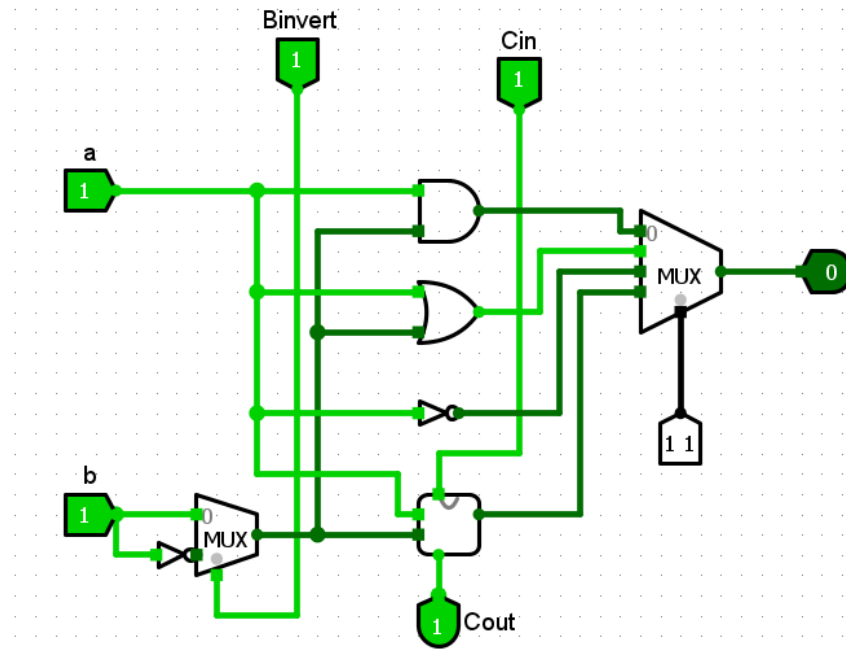
SOMA(A,B)



NOT(A)



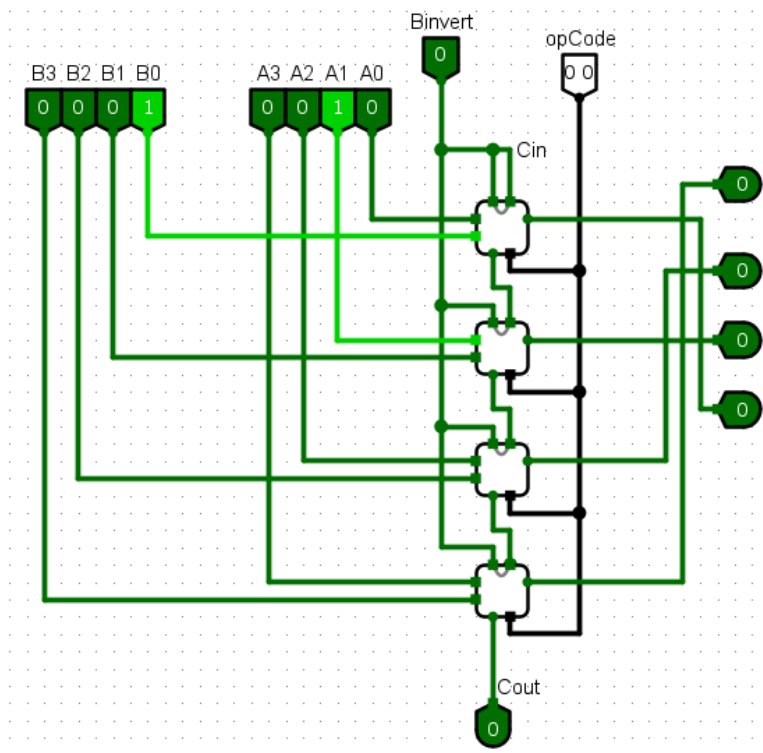
SOMA(A, -B)



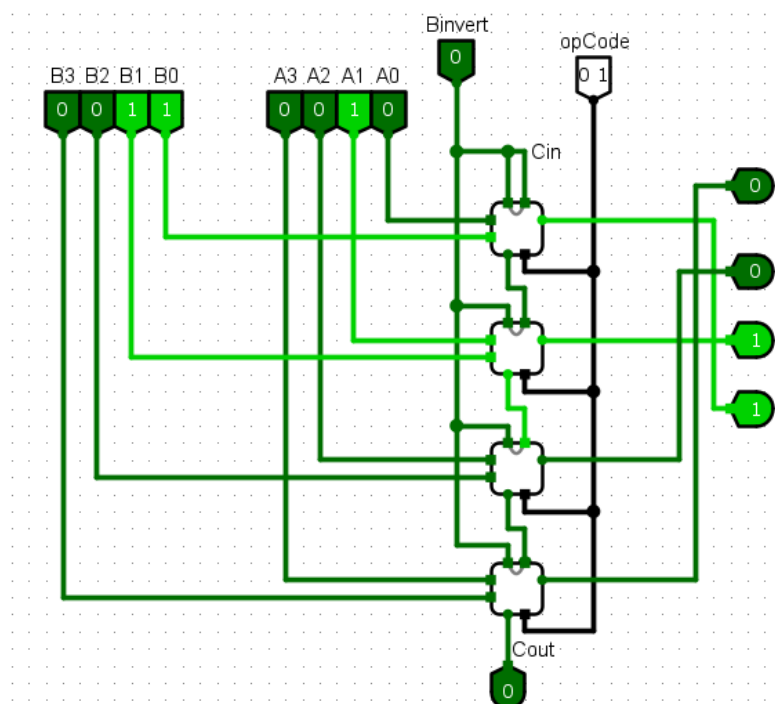
- ULA para 4 bits:

Operações:

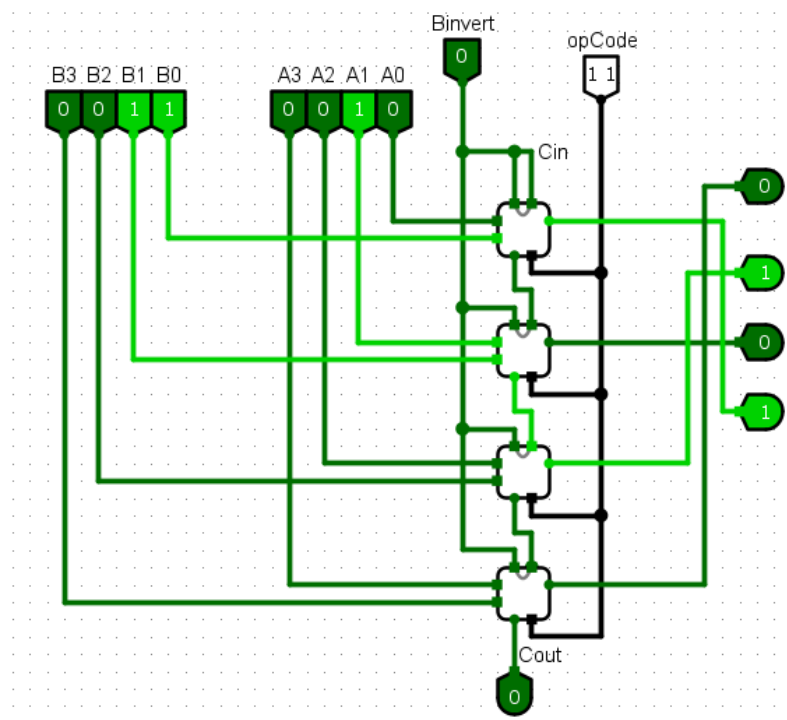
AND(A,B)



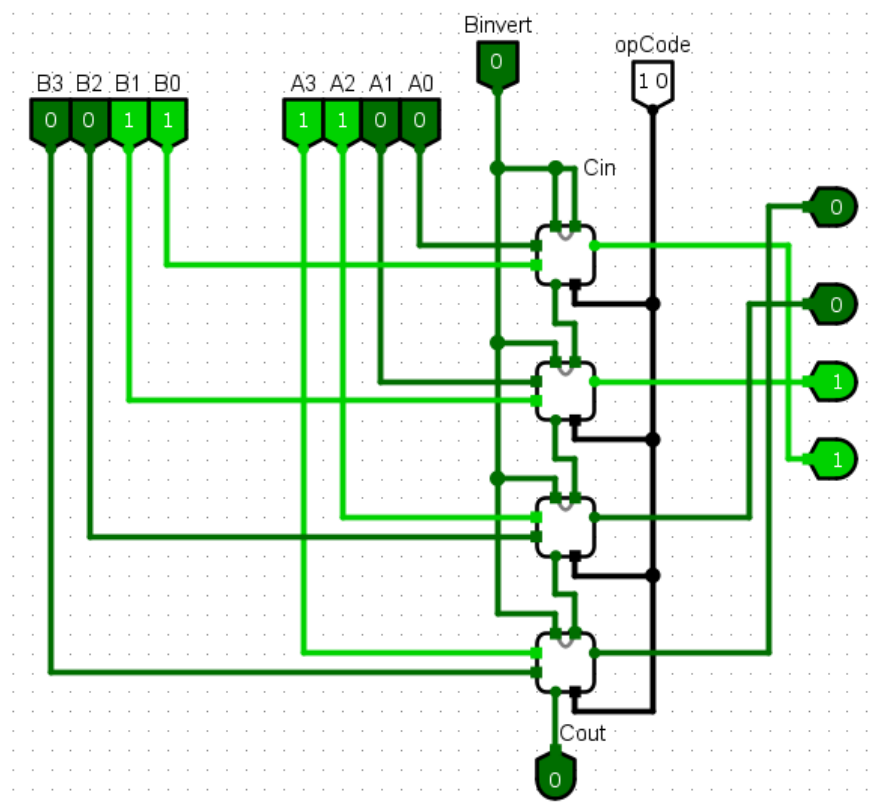
OR(A,B)



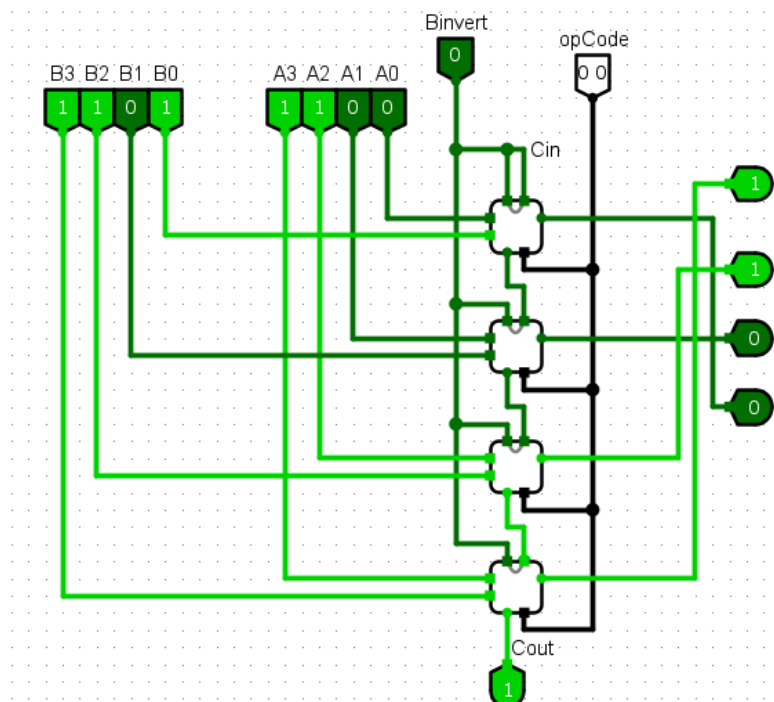
SOMA(A,B)



NOT(A)



AND(A,B)

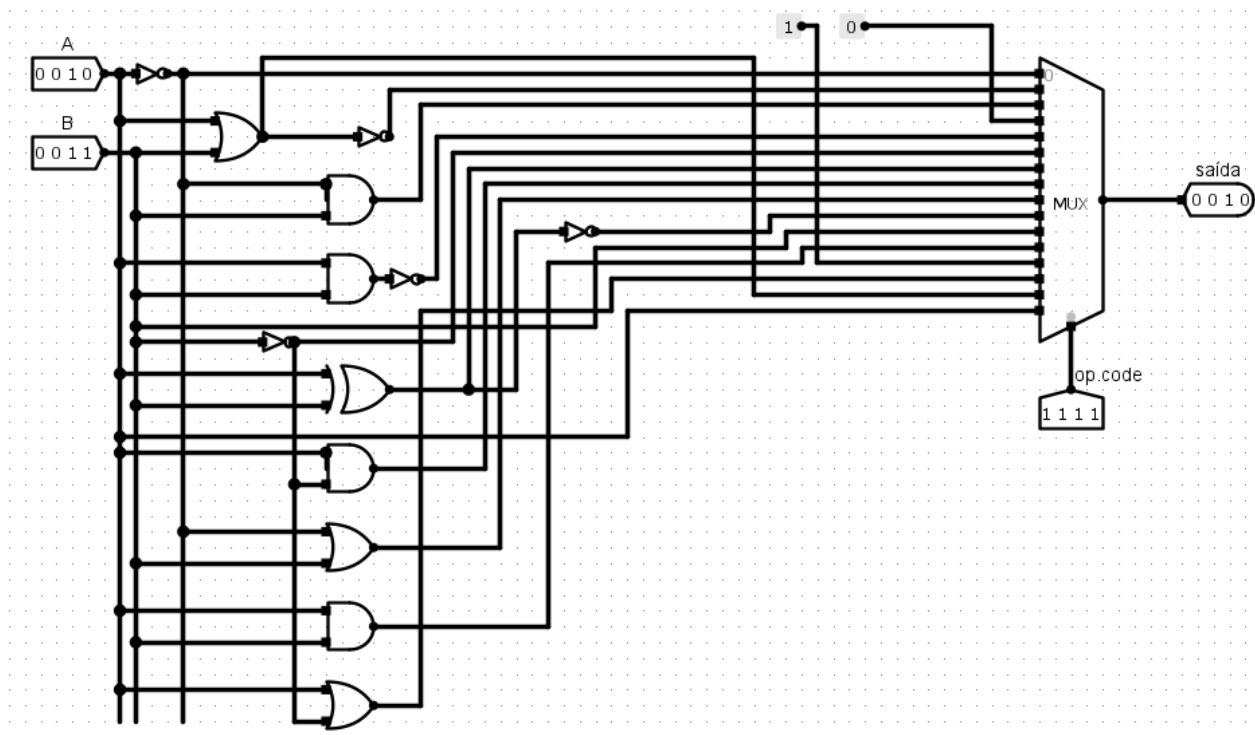


| Instrução Realizada | Binário (A,B, OP.Code) | Valor em HEXA | Resultado em Binário |
|---------------------|------------------------|-----------------------------|----------------------|
| AND(A,B) | 0010 0001 00 | (0000 1000 0100) = 0x084 | 0000 |
| OR(A,B) | 0010 0011 01 | (0000 1000 1101) = 0x08D | 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 0111) = 0x337 | 1100 |

Parte 2 =>

ULA

Instrução: 4CB



| Instrução | Binário | Resultado da Operação |
|-----------|--------------|-----------------------|
| 450 | 010001010000 | B |
| CB1 | 110010110001 | 0 |
| A32 | 101000110010 | 1 |
| C43 | 110101000011 | 0 |
| 124 | 000100100100 | F |
| 785 | 011110000101 | 7 |
| 9B6 | 100110110110 | 2 |
| CD7 | 110011010111 | 0 |
| FE8 | 111111101000 | E |
| 649 | 011001001001 | D |
| D9A | 110110011010 | 9 |

| | | |
|-----|--------------|---|
| FCB | 111111001011 | C |
| 63C | 011000111100 | 1 |
| 98D | 100110001101 | 1 |
| 76E | 011101101110 | F |
| 23F | 001000111111 | 2 |

- Se o objetivo fosse realmente testar esta ULA, quantas linhas a nossa tabela verdade deveria ter, ou seja na verdade a tabela que você preencheu deveria ter quantas linhas?

R: A tabela verdade desta ULA teria 256 linhas, pois $2^4 = 256$.