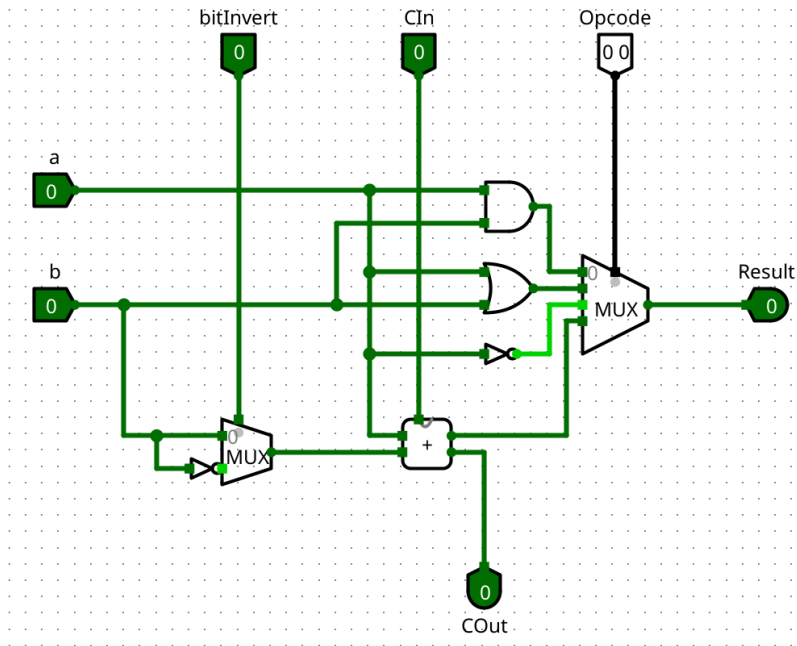


Parte 1

Circuitos elaborados

ULA 1 bit



ULA 4 bits

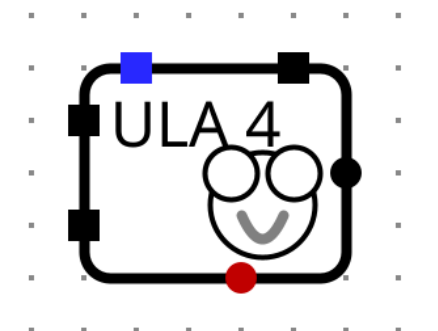
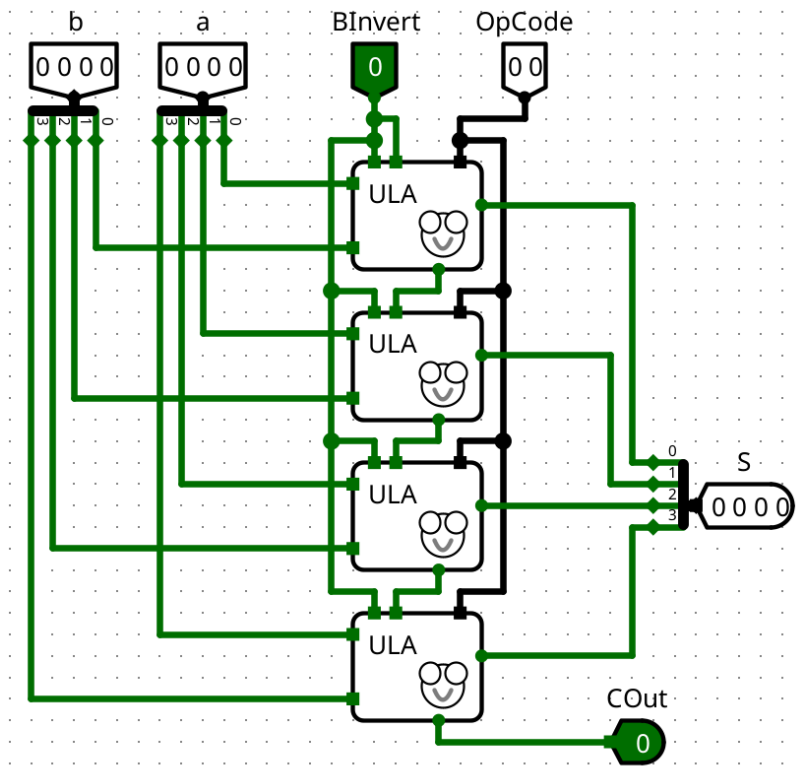
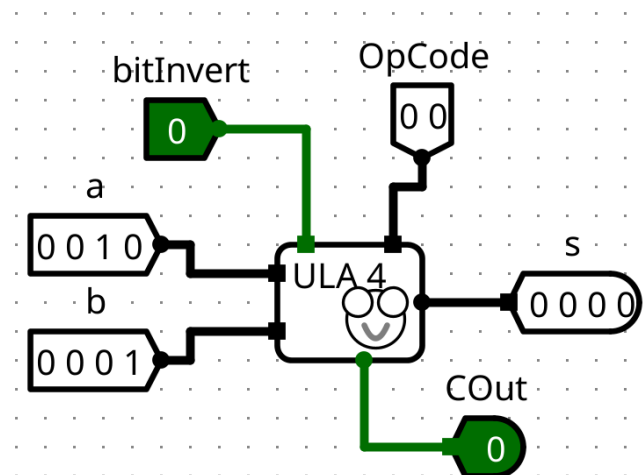


Tabela de resultados

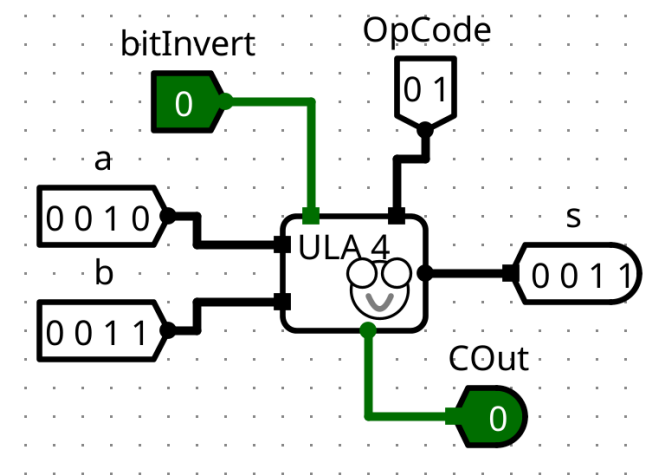
| Teste | Instrução Realizada | Binário (A,B,OpCode) | Valor em Hexa | Resultado |
|-------|---------------------|-------------------------|---------------|-----------|
| 1 | AND(A,B) | 0010 0001 00 | 0x84 | 0000 |
| 2 | OR(A,B) | 0010 0011 01 | 0x8d | 0011 |
| 3 | SOMA(A,B) | 0010 0011 11 | 0x8f | 0101 |
| 4 | NOT(A) | 1100 0011 10 | 0x30e | 0011 |
| 5 | AND(B,A) | 1100 1101 00 | 0x334 | 1100 |

Prints dos testes

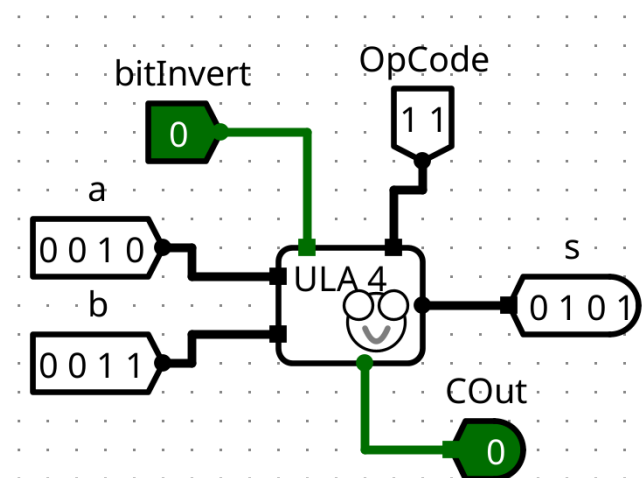
Teste 1:



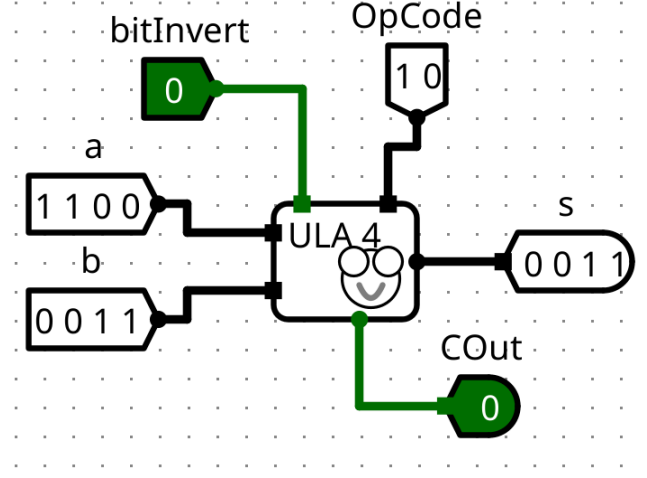
Teste 2:



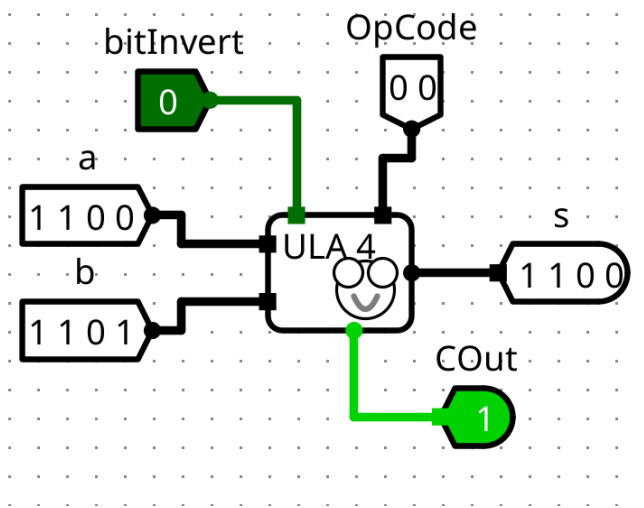
Teste 3:



Teste 4:



Teste 5:

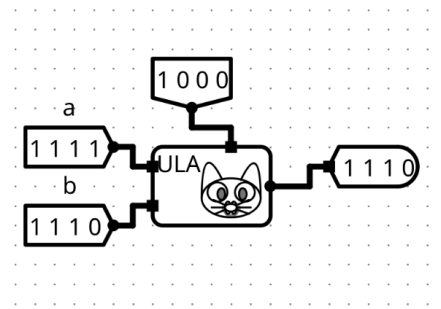
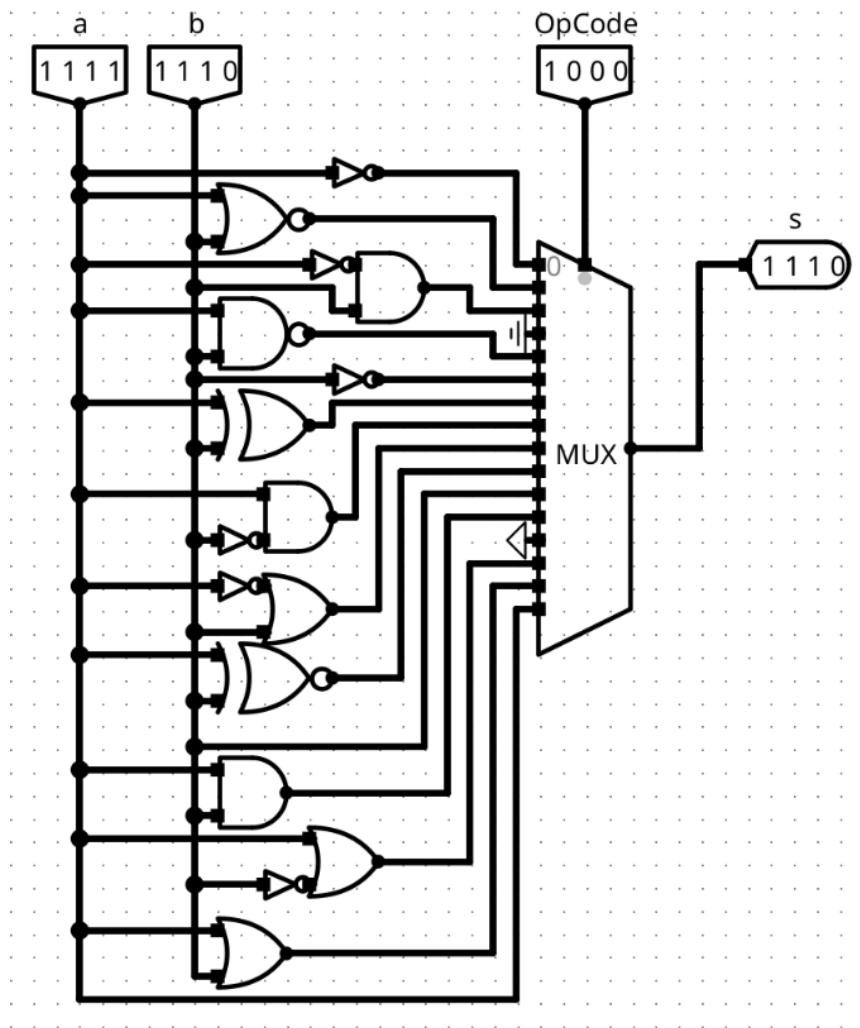


Parte 2

Tabela de resultados

| Instruções | Binário | Resultado da operação |
|------------|----------------|-----------------------|
| 450 | 0100 0101 0000 | 1011 |
| CB1 | 1100 1011 0001 | 0000 |
| A32 | 1010 0011 0010 | 0001 |
| C43 | 1100 0100 0011 | 0000 |
| 124 | 0001 0010 0100 | 1111 |
| 785 | 0111 1000 0101 | 0111 |
| 9B6 | 1001 1011 0110 | 0010 |
| CD7 | 1100 1101 0111 | 0000 |
| FE8 | 1111 1110 1000 | 1110 |
| 649 | 0110 0100 1001 | 1101 |
| D9A | 1101 1001 1010 | 1001 |
| FCB | 1111 1100 1011 | 1100 |
| 63C | 0110 0011 1100 | 1111 |
| 98D | 1001 1000 1101 | 1111 |
| 76E | 0111 0110 1110 | 0111 |
| 23F | 0010 0011 1111 | 0010 |

Projeto da ULA



Resposta:

A ULA anterior tem 12 entradas, então a sua tabela verdade teria $2^{12} = 4096$ linhas