## TRAABALHO 1 - OAC1

## **BIP**

Nome: Rodrigo Ferraz Souza

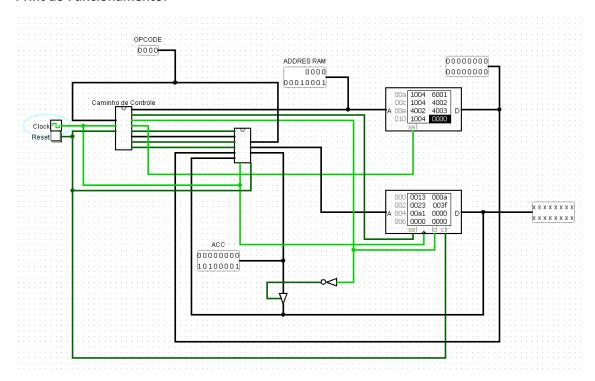
Matrícula: 19103563

A = 19 = 0X13// A B = 10 = 0XALDI 0x013 | 3013 C = 35 = 0X23STO 0x000 | 1000 D = 63 = 0X3F// B 2a - b + 2c + d = 161 = 0X00A1LDI 0x00A | 300A STO 0x001 | 1001 // C LDI 0x023 | 3023 STO 0x002 | 1002 // D LDI 0x03F | 303F STO 0x003 | 1003 // Conta LD 0x000 | 2000 ADD 0x000 | 4000 STO 0x004 | 1004 SUB 0x001 | 6001 STO 0x004 | 1004 ADD 0x002 | 4002 ADD 0x002 | 4002 STO 0x004 | 1004

ADD 0x003 | 4003

STO 0x004 | 1004

## **Print do Funcionamento:**



## Tabela verdade:

INSTRUÇÃO	OPCODE BINARIO (ABCD)	WR_RAM	EN_RAM	EN_PC	EN_ROM	WR_ACC	SEL_OP1		SEL OP2	SEL ULA
							BIT 1	BIT 0	SEL_UP2	SEL_ULA
NOP	0000	1	0	0	1	0	0	0	0	0
STO	0001	0	1	1	1	0	0	0	0	0
LD	0010	1	1	1	1	1	0	0	0	0
LDI	0011	1	0	1	1	1	0	1	1	0
ADD	0100	1	1	1	1	1	1	0	0	0
ADDI	0101	1	0	1	1	1	1	0	1	0
SUB	0110	1	1	1	1	1	1	0	0	1
SUBI	0111	1	0	1	1	1	1	0	1	1
LOGIC EXP		(B'C'D)'	CD' + BD' + B'C'D	B+C+D	1	B+C	В	B'CD	CD + BD	BC