	Cod. Operação	Reg. a	Reg. b	Reg. c	Const															
	4bits	4bits	4bits	4bits	16 bits					0	PCODE	1								
NOP	0000	0000	0000	0000	0000					NOP	0000									
Add	0001	0010	0011	0001	0000					Add	0001									
Sub	0010	0011	0100	0010						Sub	0010									
And	0011									And	0011	1								
Or	0100									Or	0100	1								
Xor	0101									Xor	0101									
Not	0110									Not	0110	1								
SII	0111									SII	0111									
Srl	1000									Srl	1000									
Ori	1001									Ori	1001									
Xori	1010									Xori	1010	1								
Addi	1011									Addi	1011	1								
Show	1100									Show	1100	1								
Jump	1101									Jump	1101	1								
Branch	1110									Branch	1110	1								
Halt	1111									Halt	1111	1								
											#assembly cod	le	# r0 = 0000	# r6 = 0110						
											#N=r1		#r1 = 0001	# r7 = 0111						
											# first = r2		# r2 = 0010	# r8 = 1000						
											# next = r3		#r3 = 0011	# r9 = 1001						
											# second = r4		# r4 = 0100							
		Tab	bela de Memória								# i = r5		# r5 = 0101							
	Write	ula	branch	IP_mux	halt	SelB	Show		lex	-	Tabela de Memória CONTROLE									
NOP	0	000	0	0	0	0	0	000000000	0		OP CODE dez			Binario			Hex	Assembly		
Add	1	000	0	0	0	0	0	100000000	100		ļ		Registrador a	Registrador b	Registrador c	Constante		<u> </u>		
Sub	1	001	0	0	0	0	0	100100000	120		SOMA SIMPLE	S 3+2						·		
And	1	010	0	0	0	0	0	101000000	140		NOP	0000	0000	0000	0000	00000000000000000	0			
Or	1	011	0	0	0	0	0	101100000	352		ADDi	1011	0000	0000	0001	0000000000000011	B0010003	<u> </u>		
Xor	1	100	0	0	0	0	0	110000000	180		ADDi	1011	0000	0000	0010	00000000000000010	B0020002			
Not	1	101	0	0	0	0	0	110100000	1A0		ADD	0001	0001	0010	0011	00000000000000000	11230000			
SII	1	110	0	0	0	0	0	111000000	1C0		SHOW	1100	0011	0000	0000	000000000000000000	C3000000			
Srl	1	111	0	0	0	0	0	111100000	1E0					F	ibi.asm					
Ori	1	011	0	0	0	1	0	101100010	162		OP CODE dez			Binario			Hex	Assembly		
Xori	1	100	0	0	0	1	0	110000010	182		SHOW	1100	0000	0000	0000	00000000000000000	0	inicializa o show		
Addi	1	000	0	0	0	1	0	100000010	102		ADDi	1011	0000	0000	0001	00000000000000000		addi r0 r0 r1 10	#Defina N como o número desejado de termos da sequência Fibonaco	ici
Show	0	000	0	0	0	0	1	000000001	1		ADDi	1011	0000	0000	0010	00000000000000000		addi r0 r0 r2 0	#Inicializa first	
Jump	0	000	0	1	0	0	0	000001000	8		ADDi	1011	0000	0000	0011	00000000000000000			#Inicializa next	
Branch	1	001	1	1	0	0	0	100111000	138	1	ADDi	1011	0000	0000	0100	00000000000000001			#Inicializa Second	
Halt	0	000	0	1	1	0	0	000001100	С		ADD	0001	0001	0000	0101	00000000000000000		add r1 r0 r5	#Inicializa i= N	
											SHOW	1100	0000	0000	0000	00000000000000000		show r1	#Show N	
											ADD	0001	0010	0100	0011	00000000000000000		add r2 r4 r3	#next = first + second;	
											ADD	0001	0000	0100	0010	00000000000000000		add r0 r4 r2	# first = second;	
											ADD	0001	0000	0011	0100	00000000000000000		add r0 r3 r4	#second = next;	
											SUB	0010	0000	0000	0101	0000000000000001		subi r0 r0 r5 -1	# i = i-1;	
											BRANCH	1110								
											JUMP	1101			1					
											HALT	1111	1	1	1	1		1		