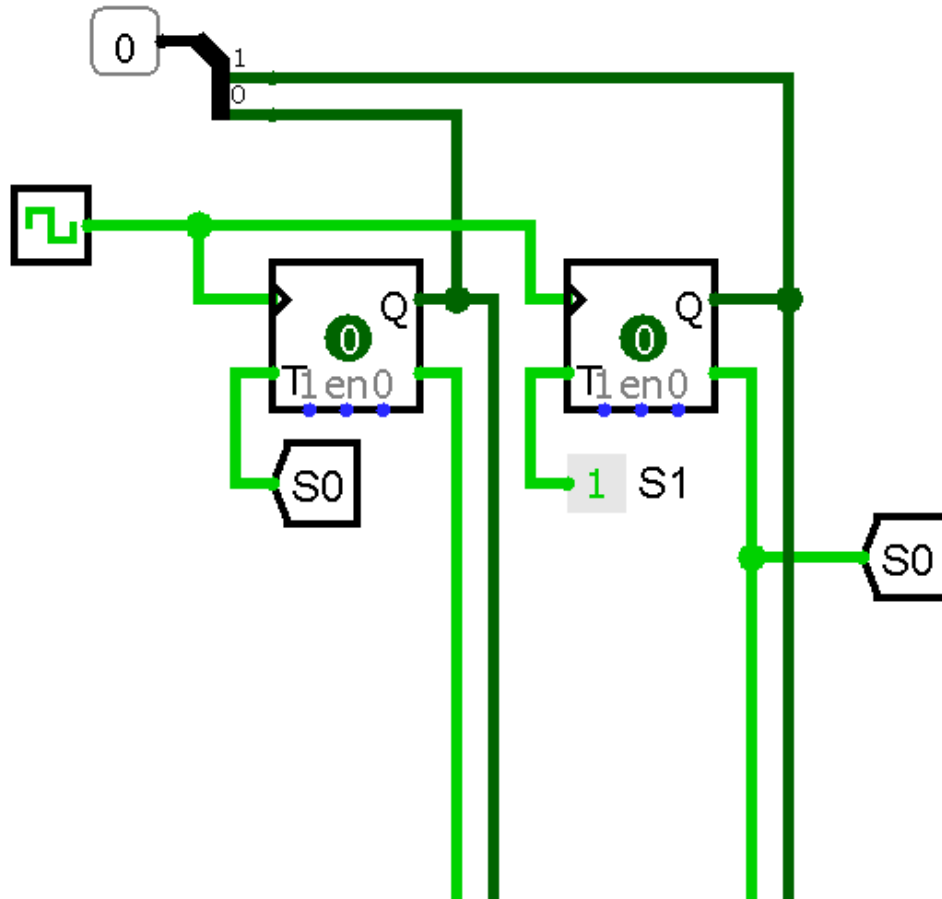


LISTA DE EXERCÍCIOS 16 – Contadores Síncronos Parte II

ALUNO: Rodolfo Oliveira Miranda

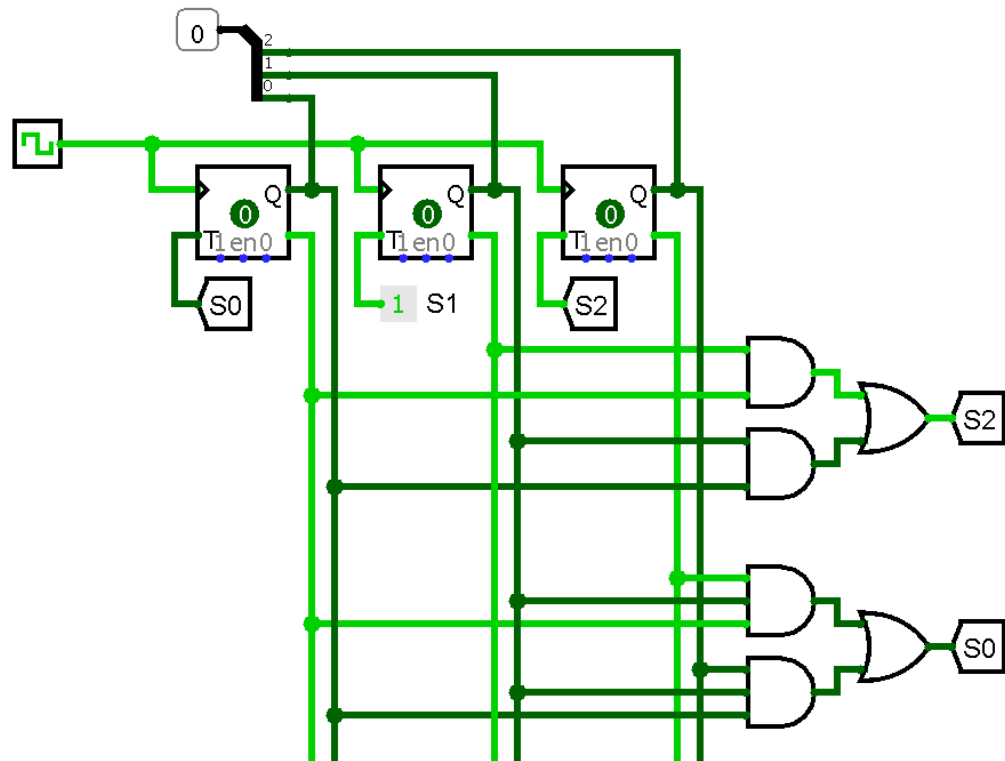
a) Contador síncrono com ordem 0, 3, 1, 2 com FF T



a) Ordem: 0, 3, 1, 2

	A	B	S1	S0	S1	\bar{B}	B	
0	0	0	1	1	\bar{A}	1	1	$S = 1$
1	0	1	1	1	A	1	1	
2	1	0	1	0				
3	1	1	1	0	S0	\bar{B}	B	
					\bar{A}	1	1	$S = \bar{A}$
					A	0	0	

b) Contador síncrono com ordem 0, 6, 4, 2, 1, 3, 5, 7 com FF T



b) Ordem: 0, 6, 4, 2, 1, 3, 5, 7

A	B	C	S2	S1	S0
0	0	0	1	1	0
1	0	0	0	1	0
2	0	1	0	1	1
3	0	1	1	1	0
4	1	0	1	1	0
5	1	0	0	1	0
6	1	1	0	1	0
7	1	1	1	1	1

S2	\overline{BC}	\overline{BC}	BC	BC
\overline{A}	1	0	1	0
A	1	0	1	0

$$S = \overline{BC} + BC$$

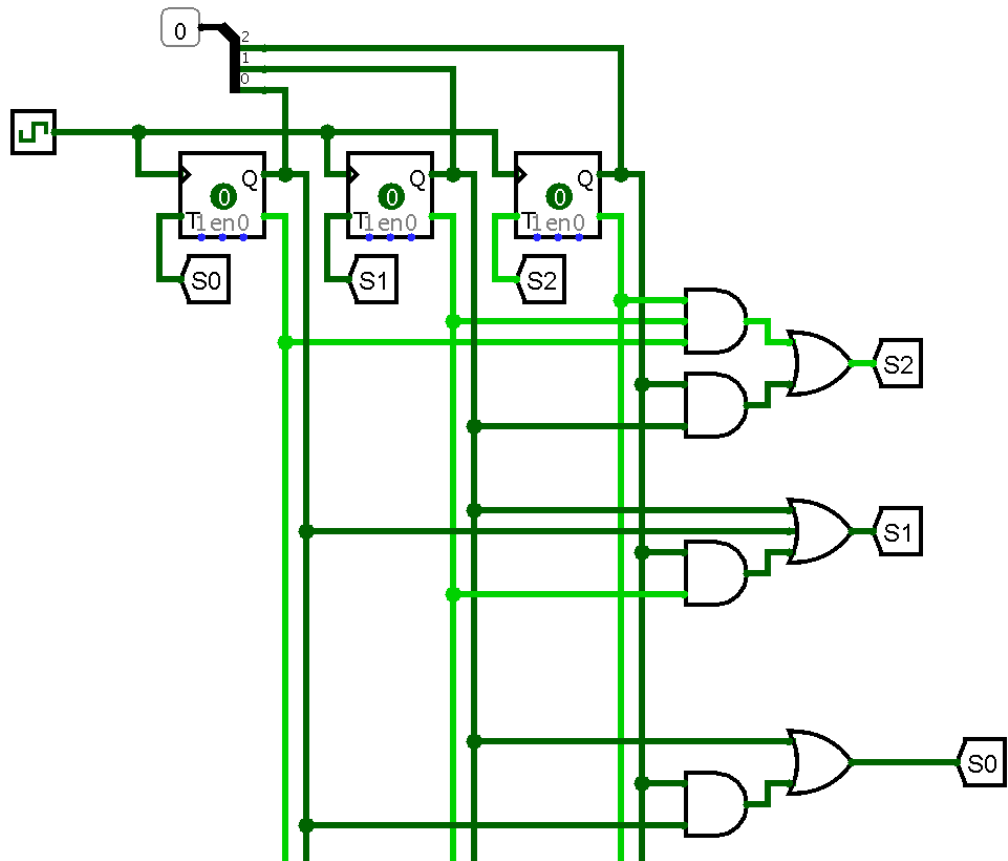
S1	\overline{BC}	\overline{BC}	BC	BC
\overline{A}	1	1	1	1
A	1	1	1	1

$$S = 1$$

S0	\overline{BC}	\overline{BC}	BC	BC
\overline{A}	0	0	0	1
A	0	0	1	0

$$S = \overline{A}BC + ABC$$

c) Contador síncrono com ordem 0, 4, 6, 1, 3 com FF T



c) Ordem: 0, 4, 6, 1, 3

	A	B	C	S2	S1	S0
0	0	0	0			
1	0	0	1			
2	0	1	0			
3	0	1	1			
4	1	0	0			
5	1	0	1			
6	1	1	0			
7	1	1	0			

S2	$\overline{B}C$	$\overline{B}\overline{C}$	BC	$B\overline{C}$
\overline{A}	1	0	0	0
A	0	0	1	1

$S = \overline{A}BC + AB$

S1	$\overline{B}C$	$\overline{B}\overline{C}$	BC	$B\overline{C}$
\overline{A}	0	1	1	1
A	1	1	1	1

$S = A\overline{B} + C + B$

S0	$\overline{B}C$	$\overline{B}\overline{C}$	BC	$B\overline{C}$
\overline{A}	0	0	1	1
A	0	1	1	1

$S = A\overline{C} + B$