

# Gerador de sequências

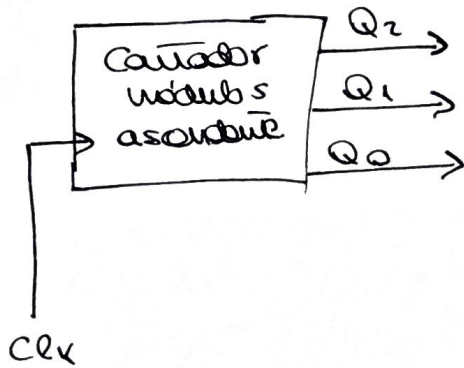
$$Z = \{0, 5, 7, 0, 1; \text{etc} \dots\}$$

$$Q = \{0, 1, 2, 3, 4\}$$

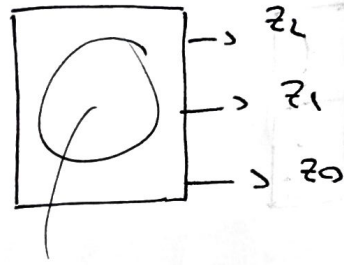
$$\Rightarrow 3 \text{ saída } Z = z_2, z_1, z_0$$

Necessitas um contador módulo 5

do de baixo para



Necessito de um circuito



Desenho este circuito.

Q <sub>2</sub> Q <sub>1</sub> Q <sub>0</sub>		z <sub>2</sub> z <sub>1</sub> z <sub>0</sub>
0 0 0	0	0 0 0
0 0 1	1	1 0 0
0 1 0	2	1 1 1
0 1 1	3	0 0 0
1 0 0	4	0 0 1
<hr/>		
	5	
	6	
	7	

$$z_2 = \sum m_i(1, 2) + d(5, 6, 7)$$

$$z_1 = \sum m_i(2) + d(5, 6, 7)$$

$$z_0 = \sum m_i(1, 2, 4) + d(5, 6, 7)$$

$$\sqrt{z_2 = Q_1 \oplus Q_0} \text{ Para simplificar}$$

	0	1	-	
1		3	7	5

$$Z_1$$

$$Z_2 = \overline{Q_1} \overline{Q_0} + \overline{Q_1} Q_0$$

$$Z_1 = Q_3 \overline{Q_0} \quad \boxed{\text{Costa 0}}$$

$$Z_0 = Z_2 + Q_2$$

Y enganchamos este circuito.