Entrena un perceptrón simple para hacer una puerta lógica OR, con a=1 y utilizando la función escalón. *(Los pesos no se especifican así que asumimos que son 0).*

x_1, x_2

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1

$$S = \begin{cases} 1 & \text{si } \sum_i x_i \times w_i + b \geq 0 \\ 0 & \text{en otro caso} \end{cases}$$

	w_0, w_1, w_2	x_0, x_1, x_2	$f(\sum_{i=0}^{n} WiXi)$	Salida esperada		$ae^t(d-s)$
t	**W(t)**	**e**	**s**	**d**	**d-s**	**ΔW(t)**	
1	(0 0 0)	1 0 0	1	0	-1	(-1 0 0)	$1(100)^1(-1) = -100$
1	(-1 0 0)	1 0 0	0	0	0	(0 0 0)	
2	(-1 0 0)	1 0 1	0	1	1	(1 0 1)	$1(101)^2(1) = 101$
2	(0 0 1)	1 0 1	1	1	0	(0 0 0)	
3	(0 0 1)	1 1 0	1	1	0	(0 0 0)	
4	(0 0 1)	1 1 1	1	1	0	(0 0 0)	

Segunda vuelta:

t	**W(t)**	**e**	**s**	**d**	**d-s**	**ΔW(t)**	
5	(0 0 1)	1 0 0	1	0	-1	(-1 0 0)	$1(100)^5(-1) = -100$
5	(-1 0 1)	1 0 0	0	0	0	(0 0 0)	
6	(-1 0 1)	1 0 1	1	1	0	(0 0 0)	
7	(-1 0 1)	1 1 0	0	1	1	(1 1 0)	$1(110)^7(1) = 110$
7	(0 1 1)	1 1 0	1	1	0	(0 0 0)	
8	(0 1 1)	1 1 1	1	1	0	(0 0 0)	

Tercera vuelta:

t	**W(t)**	**e**	**s**	**d**	**d-s**	**ΔW(t)**	
9	(0 1 1)	1 0 0	1	0	-1	(-1 0 0)	$1(100)^9(-1) = -100$
9	(-1 1 1)	1 0 0	0	0	0	(0 0 0)	
10	(-1 1 1)	1 0 1	1	1	0	(0 0 0)	
11	(-1 1 1)	1 1 0	1	1	0	(0 0 0)	
12	(-1 1 1)	1 1 1	1	1	0	(0 0 0)	