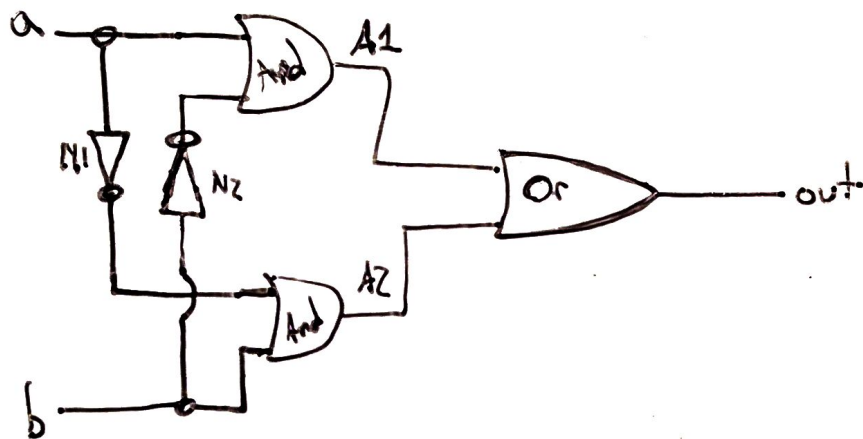Chip Name : Xor
    Inputs : a, b
    Outputs : out
    Function : if a ≠ b then out = 1
            else out = 0

$$x \text{ Xor } y = Or[And(x, Not(y)), And(Not(x), y$$

a	b	N1	N2	A1	A2	out
0	0	1	1	0	0	0
0	1	1	0	0	1	1
1	0	0	1	1	0	1
1	1	0	0	0	0	0