

a	1	0	1	1	0	1	0	1	0	1	0	0	1
b	1	1	1	1	0	0	0	1	1	1	0	1	1
a   b	1	1	1	1	0	1	0	1	1	1	0	1	1

p	q
0	0
0	1
1	0
1	1

AND
p   q
0
1
1
1

OR
p & q
0
0
0
1

XOR
p ^ q
0
1
1
0

$$x | 1 = 1$$

$$x | 0 = x$$

$$x \& 0 = 0$$

$$x \& 1 = x$$

$$Nro = di * base^i$$

Operator << n

$$Nro \ll n = d(i) * base^{(i+n)}$$

$$= d(i) * base^i * base^n = Nro * base^n$$