Lec-28

Bit-Masking

a	b	a&b	a|b	a^b
0	0	0	0	0
0	1	0	1	1
1	0	0	1	1
1	1	1	1	0

Left shift

Right shift

$a \wedge 0 = a$

$a \wedge a = 0$

$a \wedge b = b \wedge a$

$(a \wedge b) \wedge c = a \wedge (b \wedge c) = a \wedge b \wedge c$

$(x_1 \wedge x_2 \wedge x_3 \wedge x_4) = x_1 \wedge x_2 \wedge x_3 \wedge x_4$

$(n \& 1) == 0$

$n \& (n-1)$

$n \& (n-1)$

$n \& (n-1)