binary	octal	decimal	hexadecimal
0000	0	0	0
0001	1	1	1
0010	2	2	2
0011	3	3	3
0100	4	4	4
0101	5	5	5
0110	6	6	6
0111	7	7	7
1000	10	8	8
1001	11	9	9
1010	12	10	A
1011	13	11	B
1100	14	12	C
1101	15	13	D
1110	16	14	E
1111	17	15	F

binary to octal (groups of three)
110101001010 (110) (101) (001) (010)
6 5 1 2

= 6512 (octal)

octal to binary (groups of three)
6512 (6) (5) (1) (2)
110 101 001 010

= 110101001010 (binary)

binary to hex (groups of four)
110101001010 (1101) (0100) (1010)
D 4 A

= D4A (hex)

hex to binary (groups of four)
D4A (D) (4) (A)
1101 0100 1010

= 110101001010 (hex)

	8th	7th	6th	5th	4th	3rd	2nd	1st
Binary	128	64	32	16	8	4	2	1
Octal	2097152	262144	32768	4096	512	64	8	1
Decimal	10000000	1000000	100000	10000	1000	100	10	1
Hexadecimal	268435456	16777216	1048576	65536	4096	256	16	1