3 BIT Unsigned Range execeding condition:

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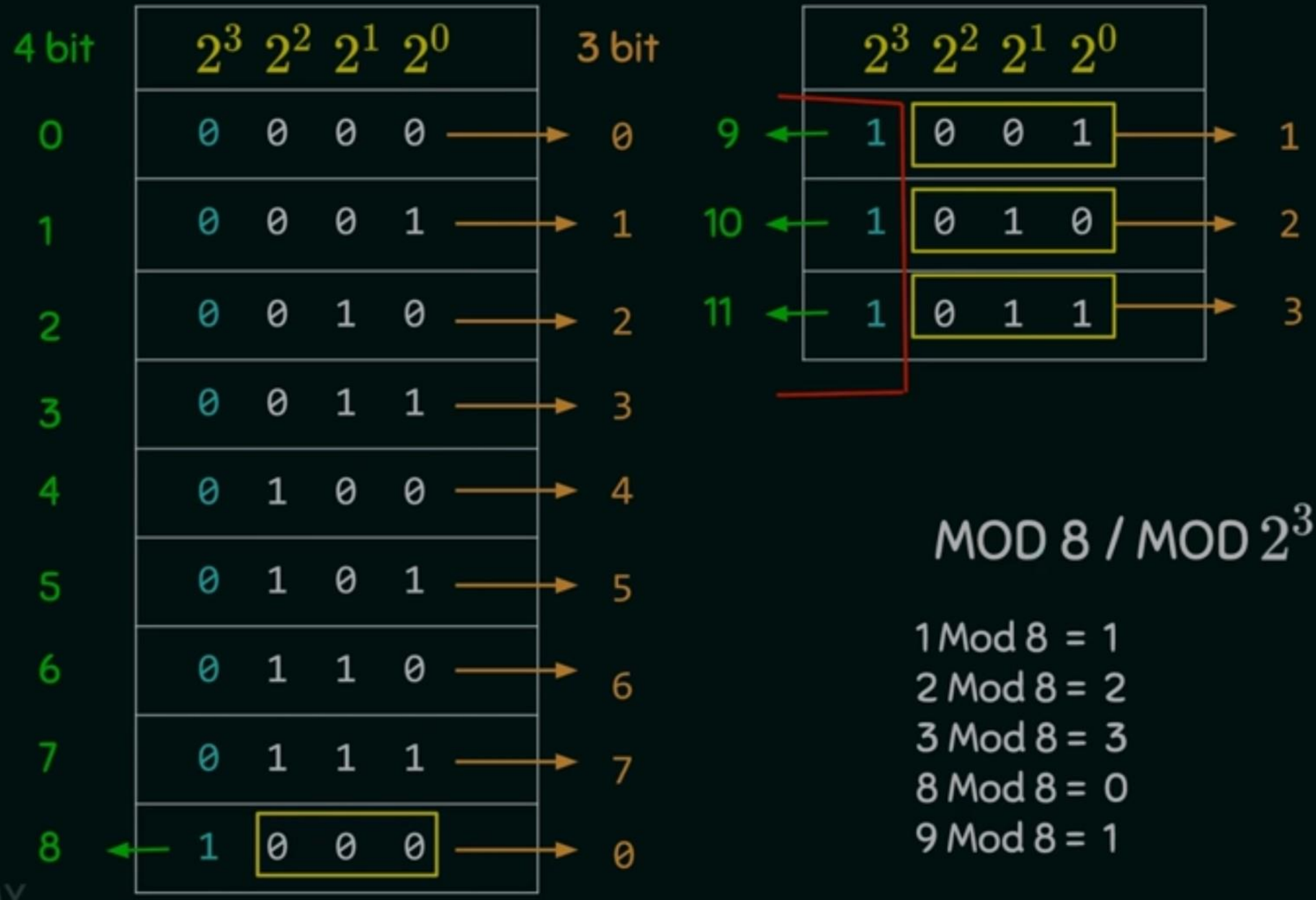


MOD 8 / MOD 2^3

1 Mod 8 = 1
2 Mod 8 = 2
3 Mod 8 = 3
8 Mod 8 = 0
9 Mod 8 = 1

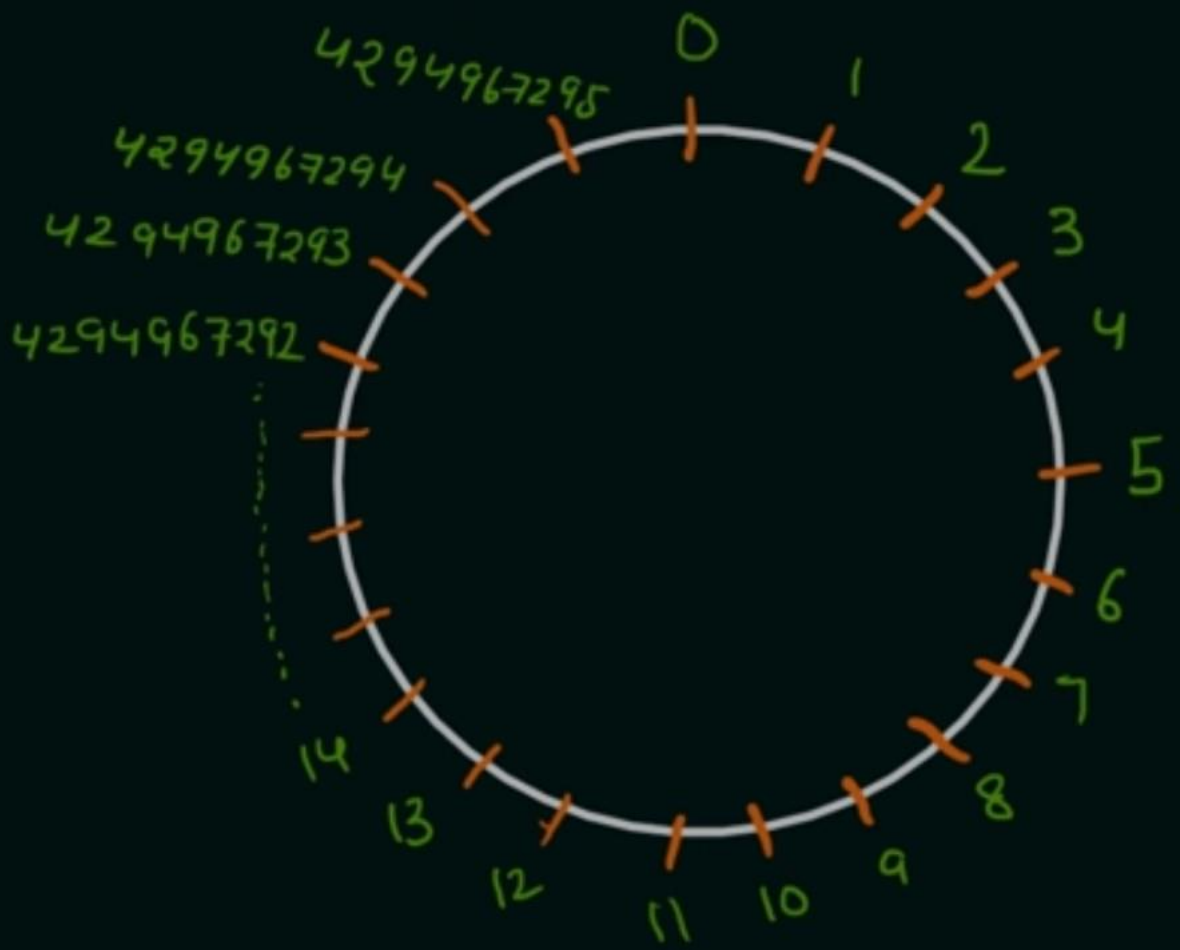
For 32 bit unsigned data -> Mod 2^{32}

For n bit unsigned data -> Mod 2^{n}

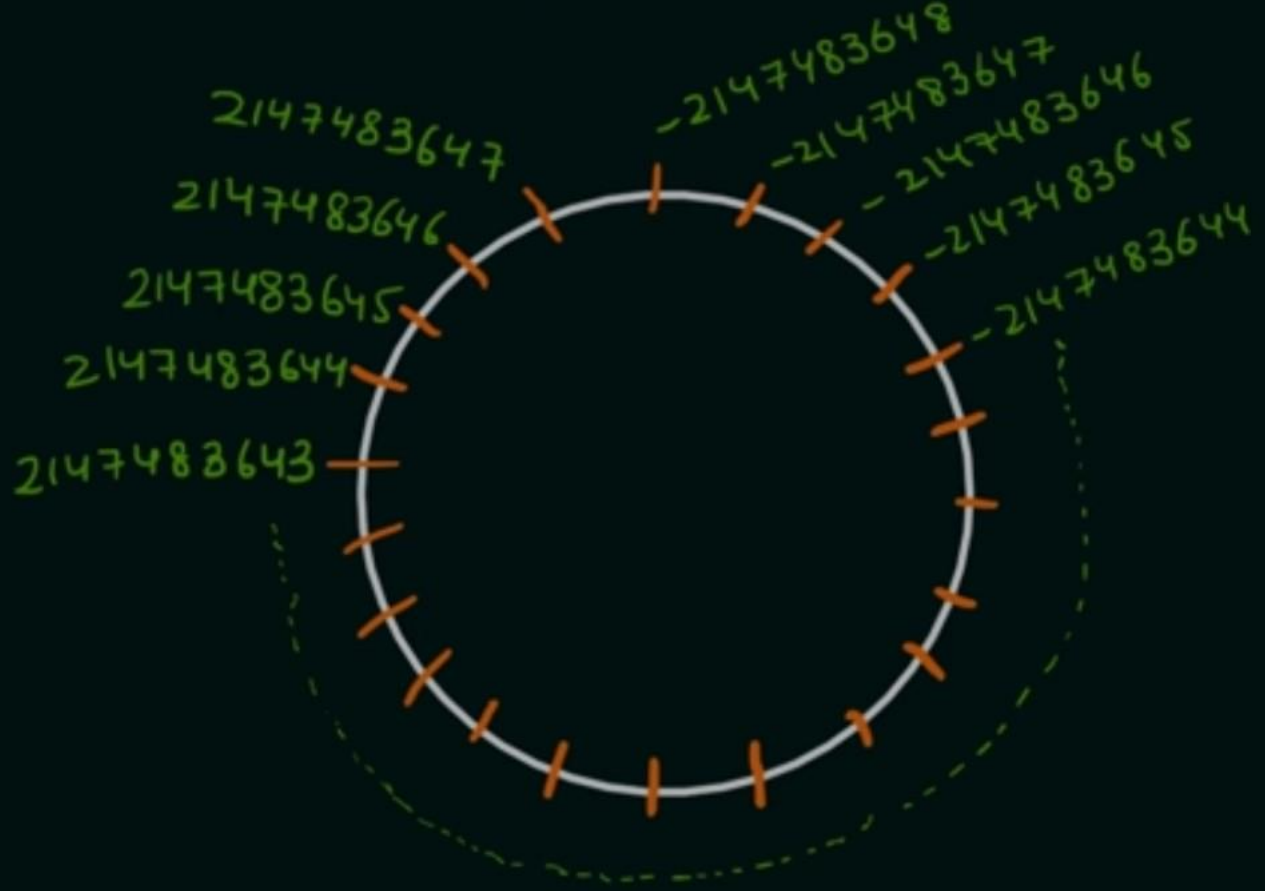
MOD 12 function

It's not 13 O'clock
It's 1 O'clock

Signed unsigned range representation



UNSIGNED



SIGNED