GREY CODE

 The gray code belongs to a class of codes called minimum change codes, in which only one bit in the code changes when moving from one code to the next.

 The Gray code is non-weighted code, as the position of bit does not contain any weight.

This is also called a unit-distance code.

Decimal Number	Binary Code	Gray Code
0	0000	0000
1	0001	0001
2	0010	0011
3	0011	0010
4	0100	0110
5	0101	0111
6	0110	0101
7	0111	0100
8	1000	1100
9	1001	1101

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Binary to Gray

• Example: $(a b c d)_2 = (....?...)_{Gray}$

• (010101)₂ is converted into (...?...)_{GREY}

 $(011111)_{GREY}$

Gray to Binary

• Converted: $(p q r s)_{Gray} = (....?...)_2$

• Example: (011111)_{GREY} is converted into (...?...)

• (010101)