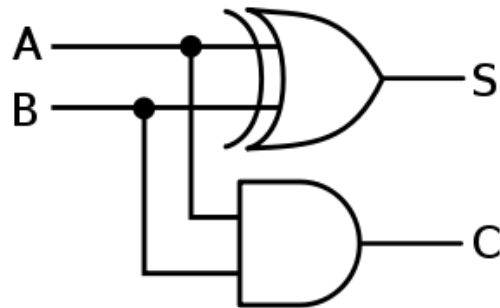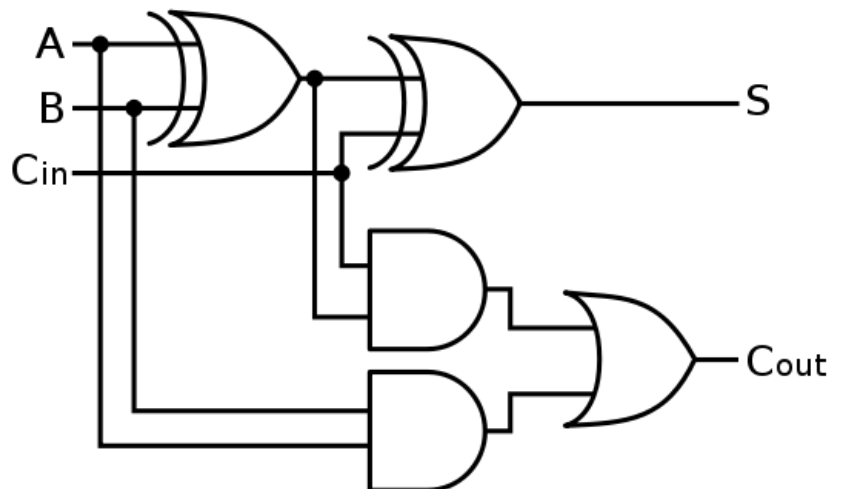# Binary Full Adder

Half Adder :

Adds 2, 1-bit numbers

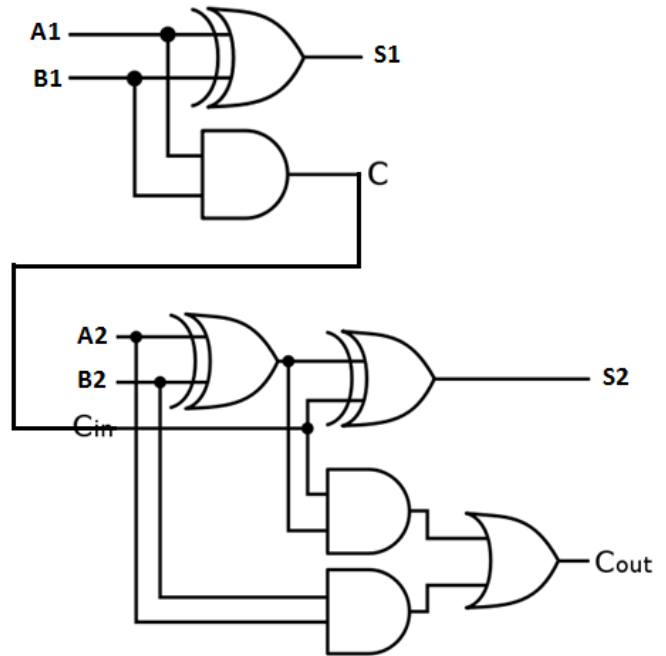**Full Adder** :

Add one of these for every additional bit you want to add.

2-Bit Binary Full Adder :

Adds 2, 2-bit numbers

Ex :   1 1
        + 1 0

A1 ─── S1
B1 ─── C

A2 ─── S2
B2
Cin ─── Cout

3-Bit Binary Full Adder :

Adds 2, 3-bit numbers

Ex :   1 0 1
        + 1 1 0

A1 ─── S1
B1 ─── Cout

A2 ─── S2
B2
Cin ─── Cout

A3 ─── S3
B3
Cin ─── Cout