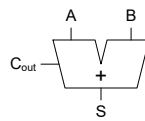


## Half Adder



A	B	C <sub>out</sub>	S
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

$$S = A \oplus B$$

$$C_{out} = AB$$