

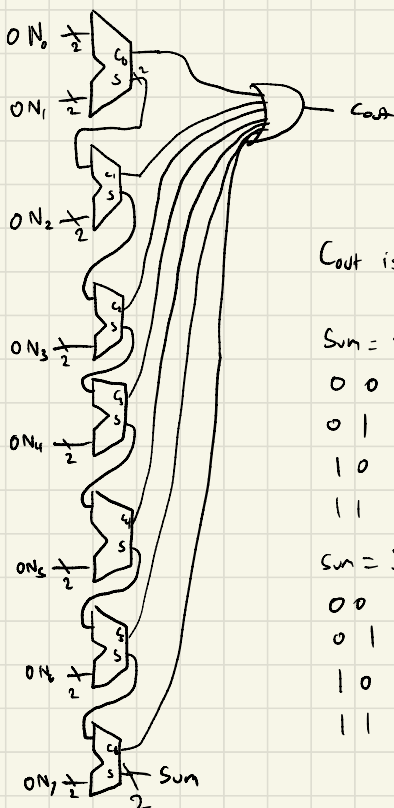
# Adder

a	b	Cin	Sum	C-out
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

## Conway

Neighbor Sum:

$N[7:0]$



Cout is high when Sum > 3

Sum = 2 or 3

0	0	0
0	1	0
1	0	1
1	1	1

$S[0]$  is ignored

Sum = 3

0	0	0
0	1	0
1	0	0
1	1	1

$S[0]$  &  $S[1]$

