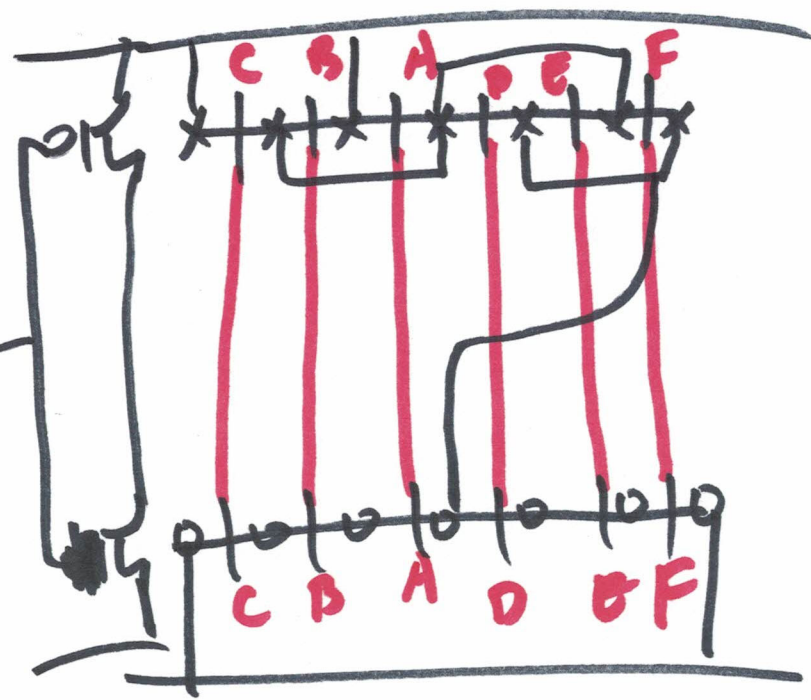
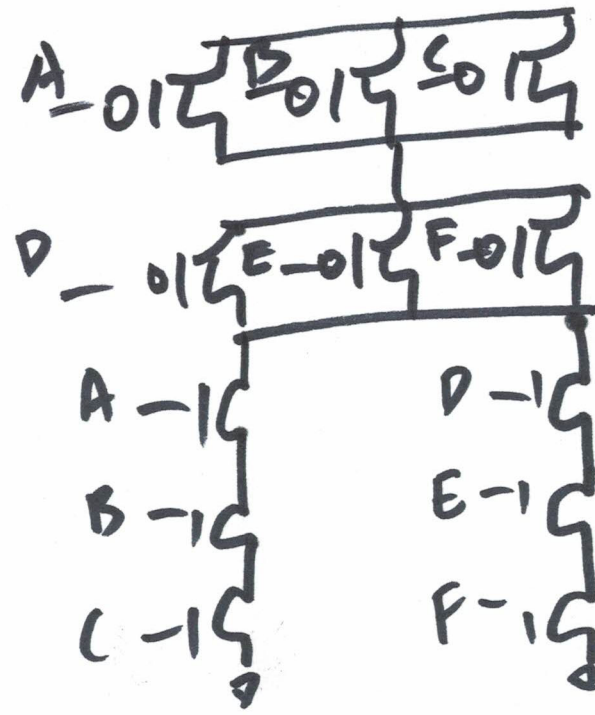
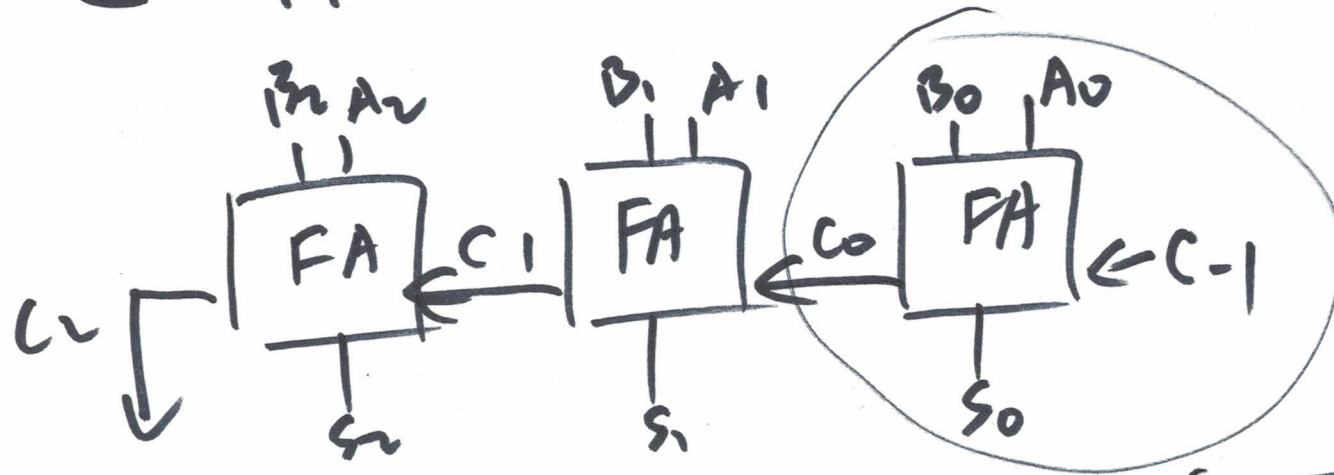


$$\overline{ABC + DEF}$$



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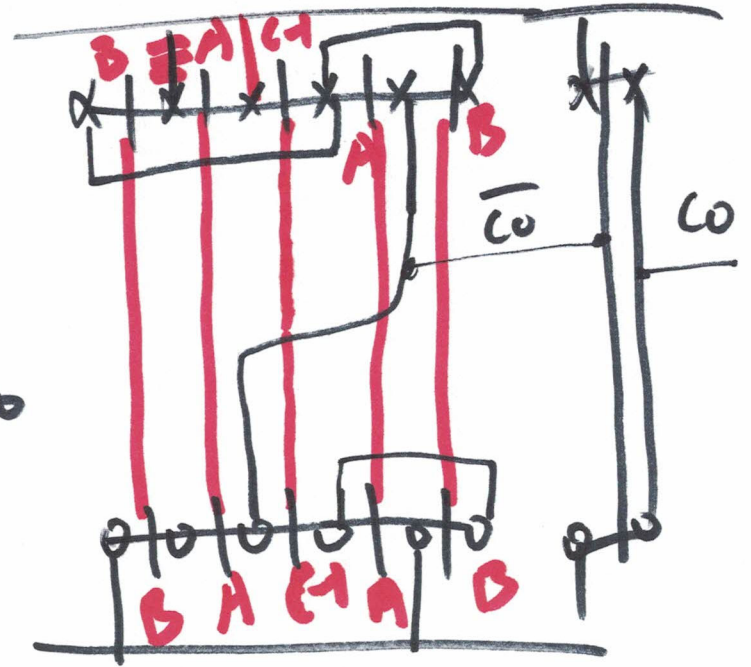
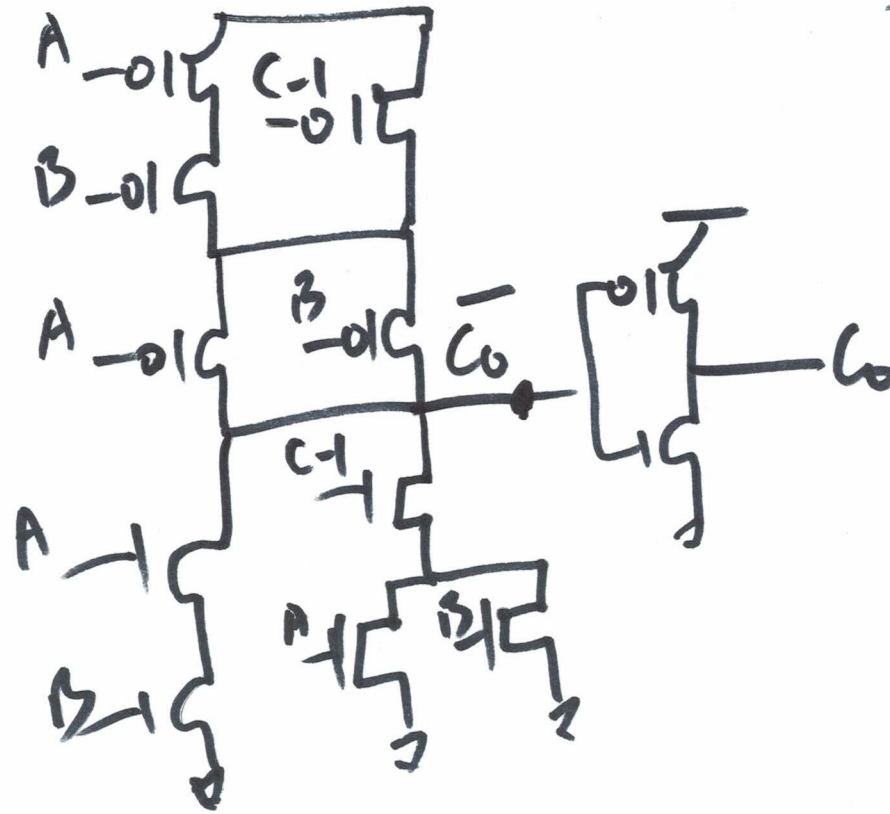
△ Ripple carry adder

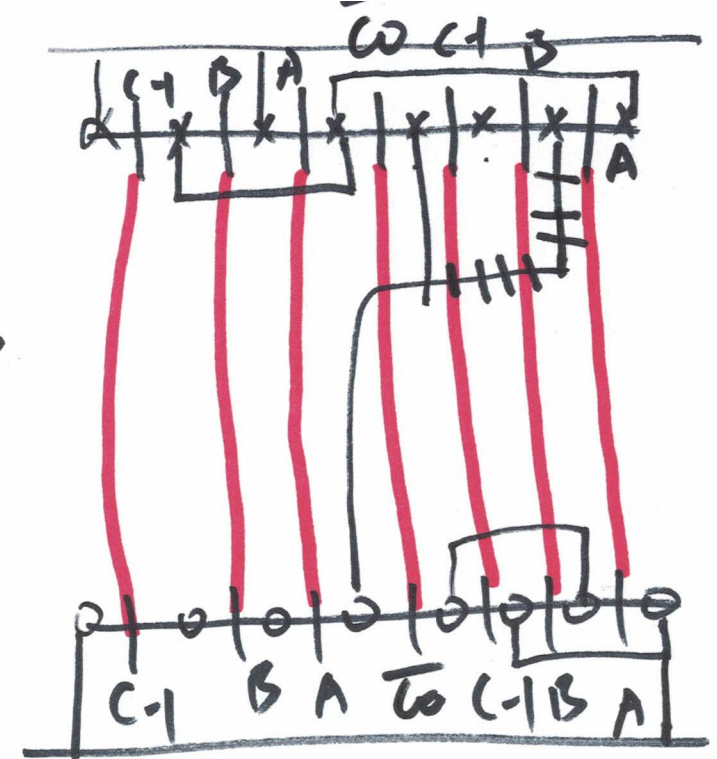
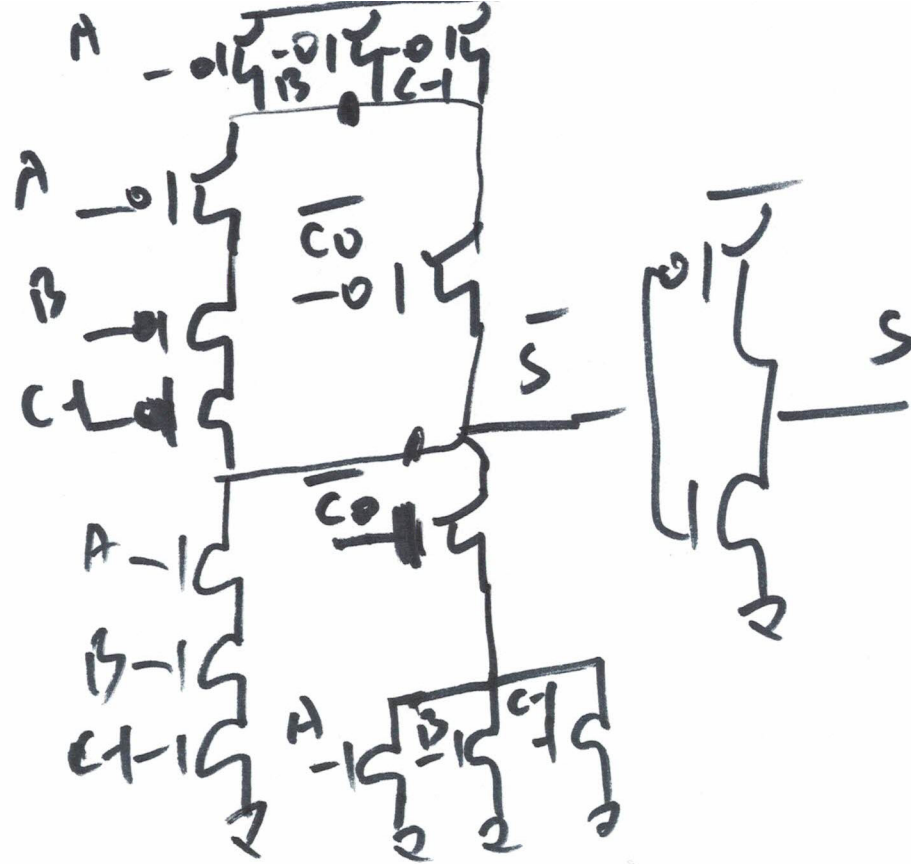


$$\begin{cases} S = A \oplus B \oplus C-1 = (\bar{A}B + A\bar{B}) \oplus C-1 = (\bar{A}B + A\bar{B}) \cdot C-1 \\ C0 = (A+B)C-1 + AB \end{cases}$$

$$C0 = (A+B)C-1 + AB$$

$$\begin{aligned} &= \dots \\ &= (A+B+C-1) \cdot \bar{C}0 + AB C0 \\ &\neq ABCi \end{aligned}$$





Simplify $\rightarrow$ AOI schematic: $\rightarrow$ Stick diagram