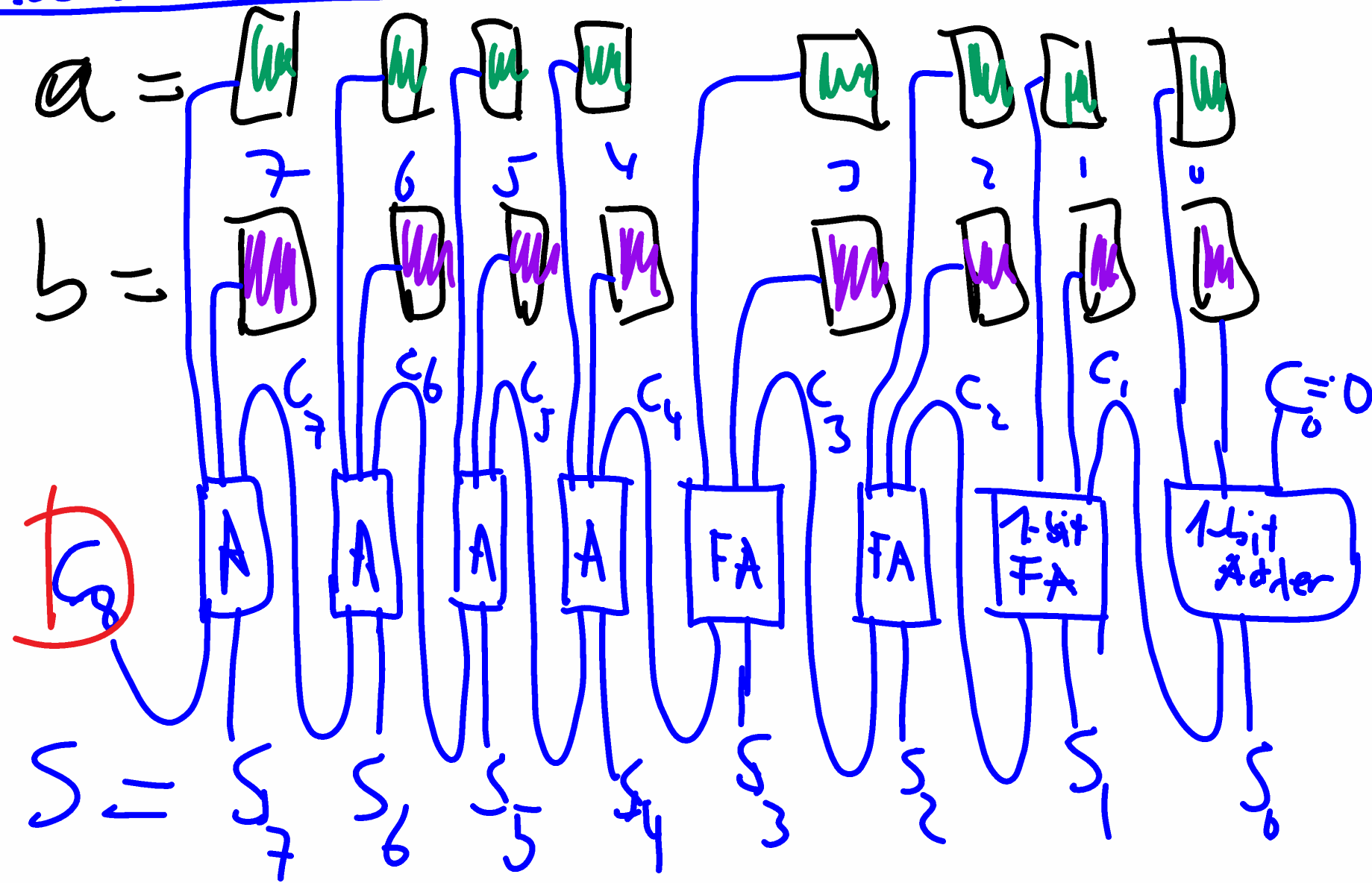


ASSIGNMENT 3: A 1-bit full adder

Thu Nov 1st 2018

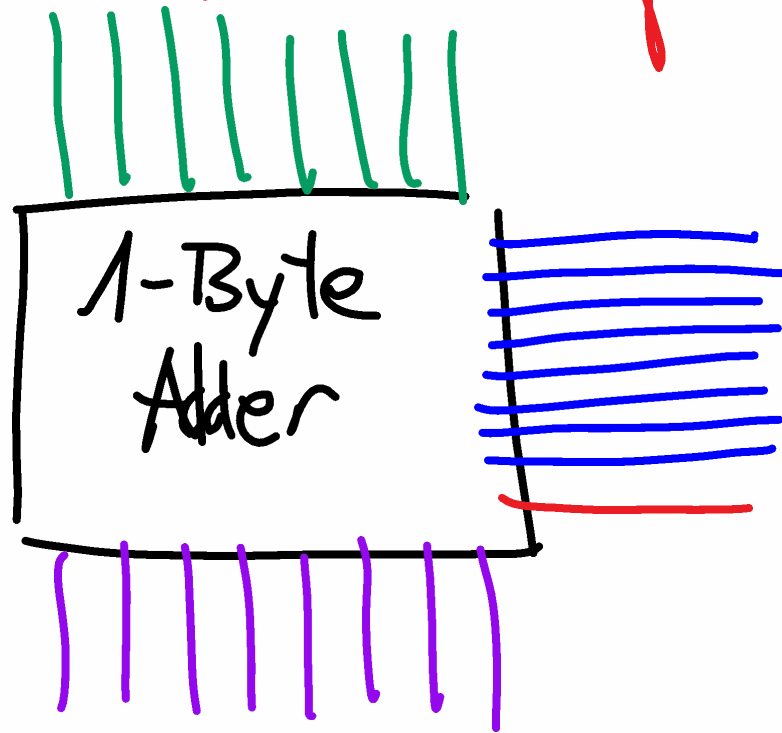


a & b are #'s
in binary.
We want to
add them

All boxes are
1-bit full adders
 $S = a + b$

This shows a general pattern in engineering:
MODULARITY.

Also important when writing programs.



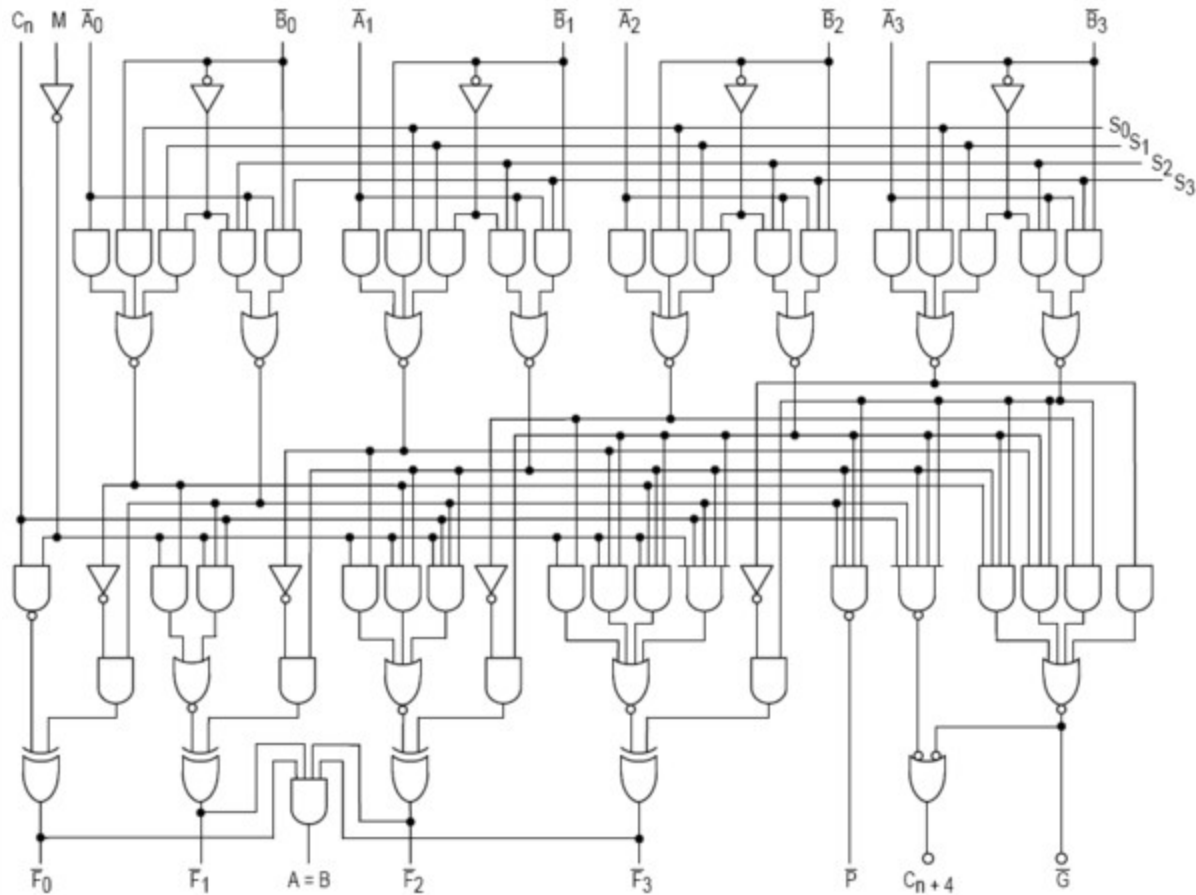
— Inputs

— Outputs

IC $\equiv$ Integrated Circuit

Example: the ALU

(Example:
Wikipedia ALU)
Arithmetic Logic Unit



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