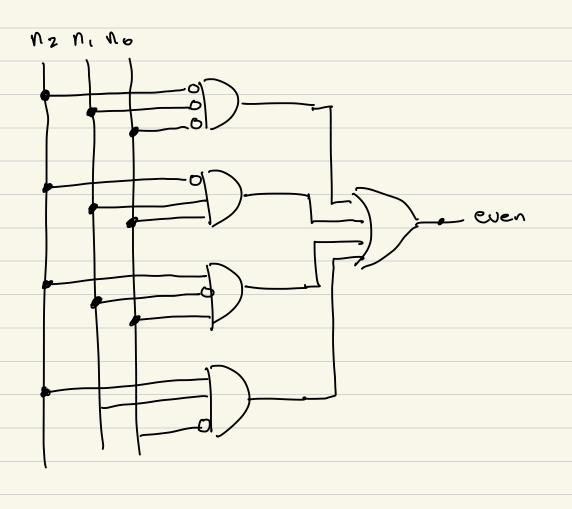
CS 315 Combinational Logic Midterm Disital Design Digital - Splitters, subcircuits Auto grader Midterm Final Hesh 100 Low 25 midterneu Avg 74 Midtern 70 Final 90 Midternues = 80 Kipple Carry Adder Cout

Sum-of-products A new function 3-bit number Nznino (bits) Two 1-bit outputs: even odd Goal: determine it the number of "I" bits are even or odd 110 even 111 029 100 001

even =
$$(\overline{n_2} \cdot \overline{n_1} \cdot \overline{n_0}) + (\overline{n_2} \cdot \overline{n_1} \cdot \overline{n_0})$$

+ $(\overline{n_2} \cdot \overline{n_1} \cdot \overline{n_0}) + (\overline{n_2} \cdot \overline{n_1} \cdot \overline{n_0})$

odd = even

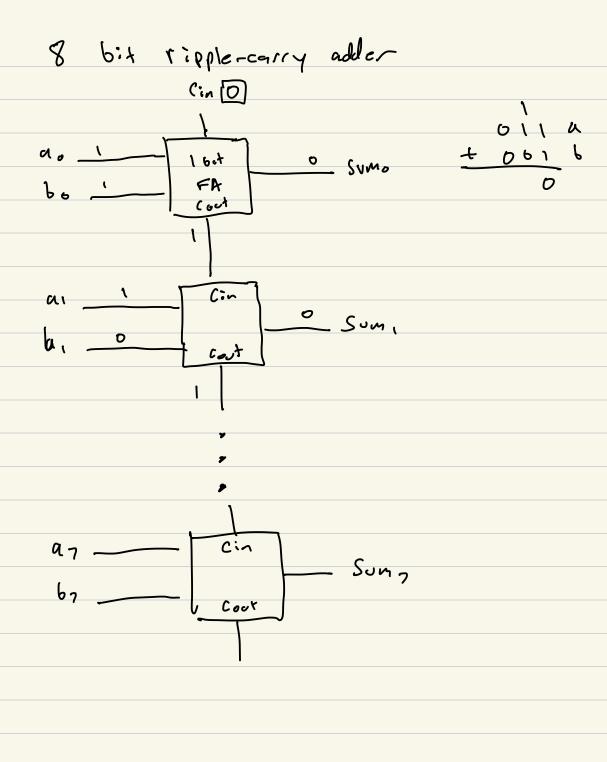


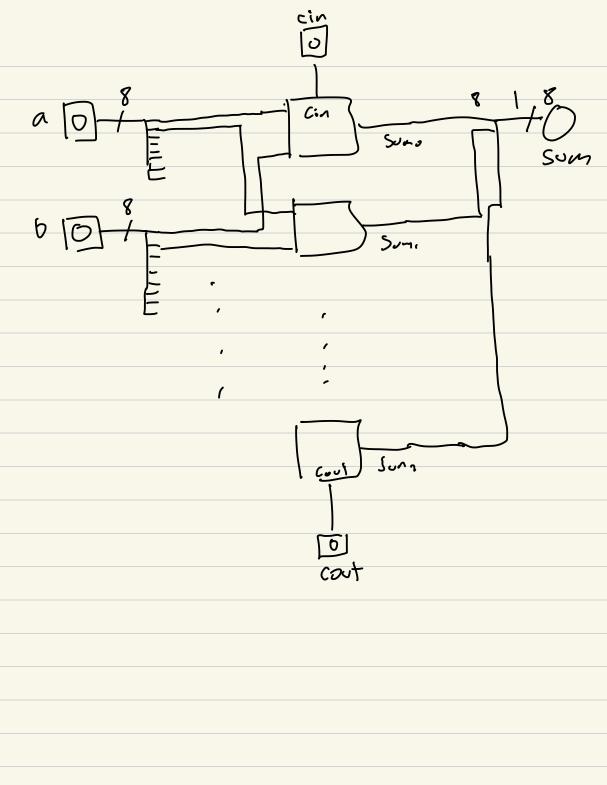
halos Partz max 2

1 bit full adder

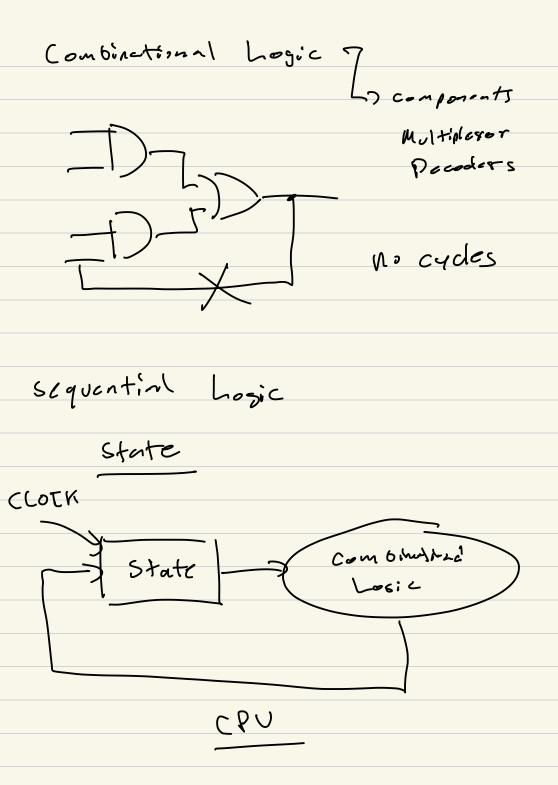
-j sum half adder

Cin full adder





Subtraction INJEST add 1 Cin C Sum



Autograder on Local Computer

(not RISC-V)

nutograder

python 3 pip3

java javall