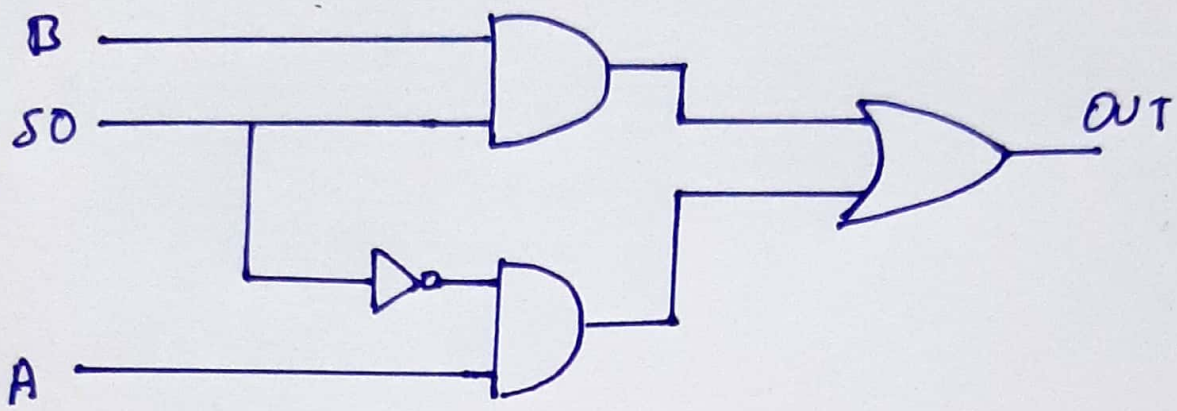
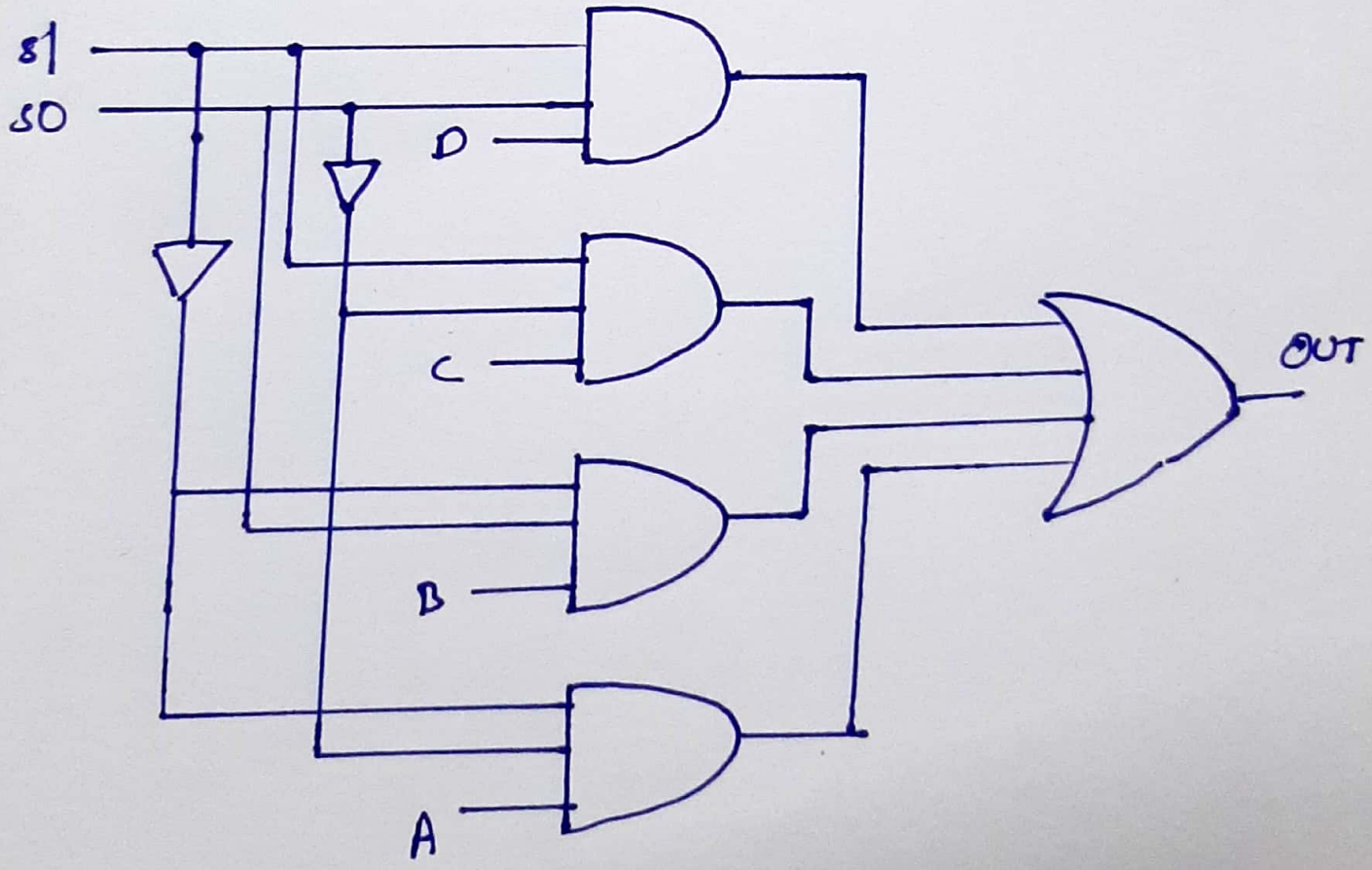
a) 2x1 MUX

$OUT = S0\,B + \overline{S0}\,A$



b) 4x1 MUX



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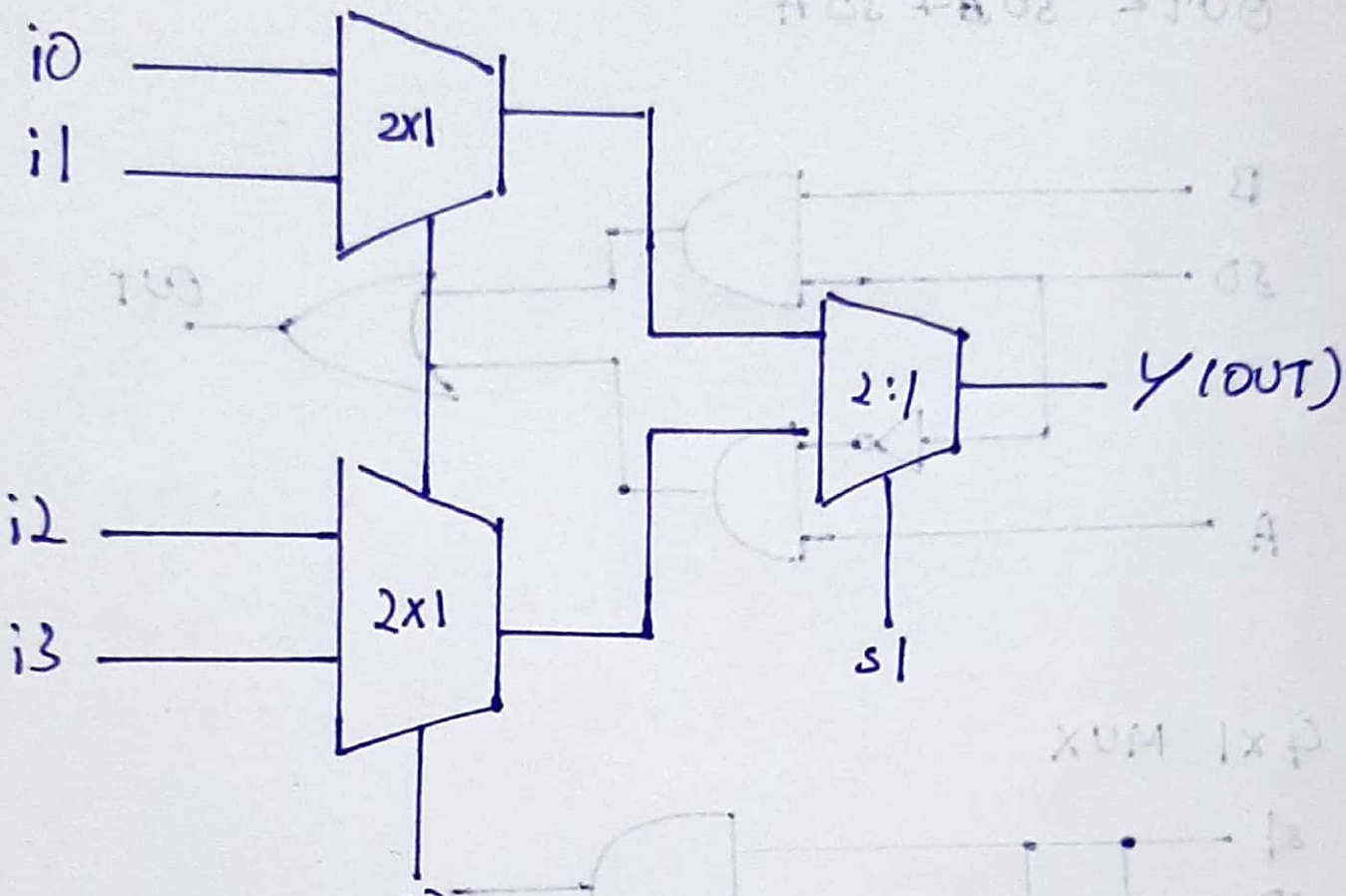
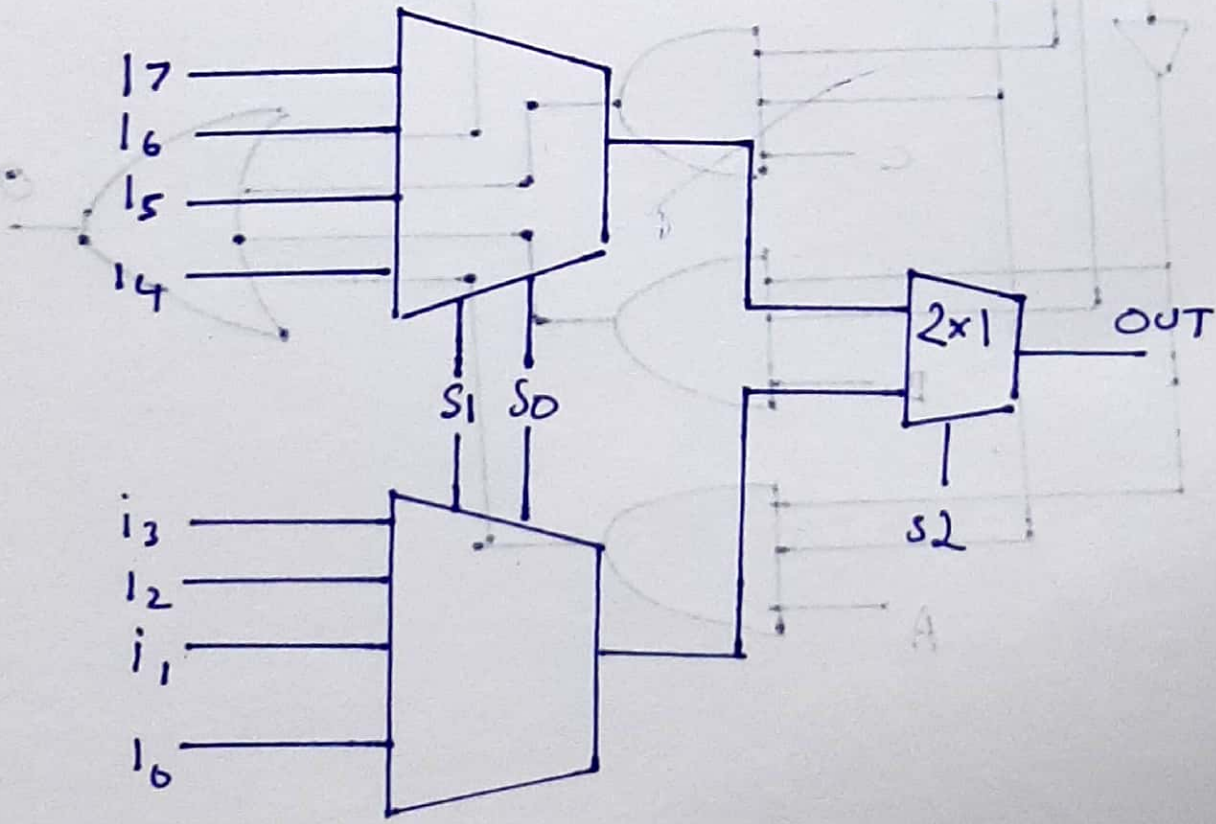
c) 4x1 MUX Using 2x1 MUX



d)



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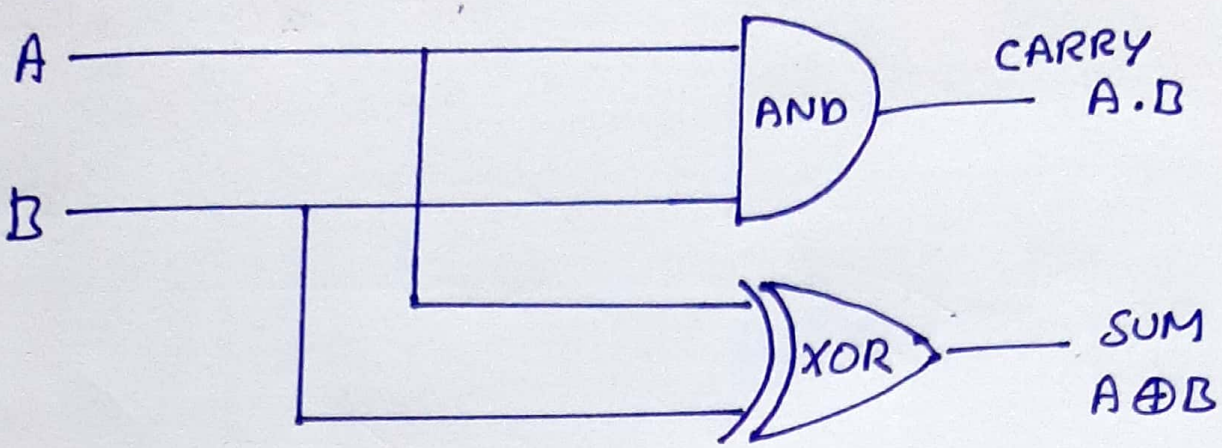
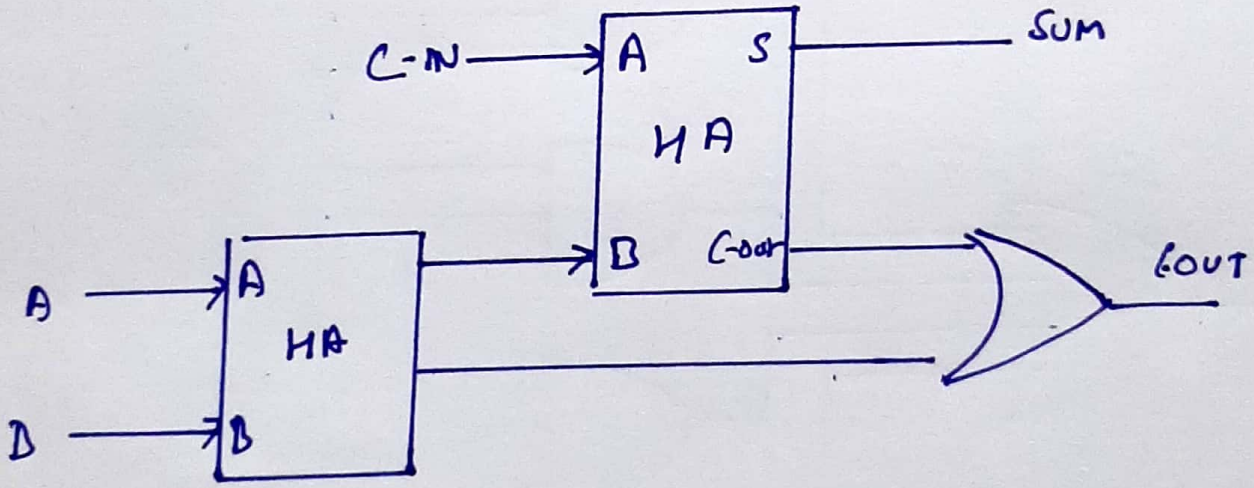
e) Half Adder



f) Full Adder Using Half Adder



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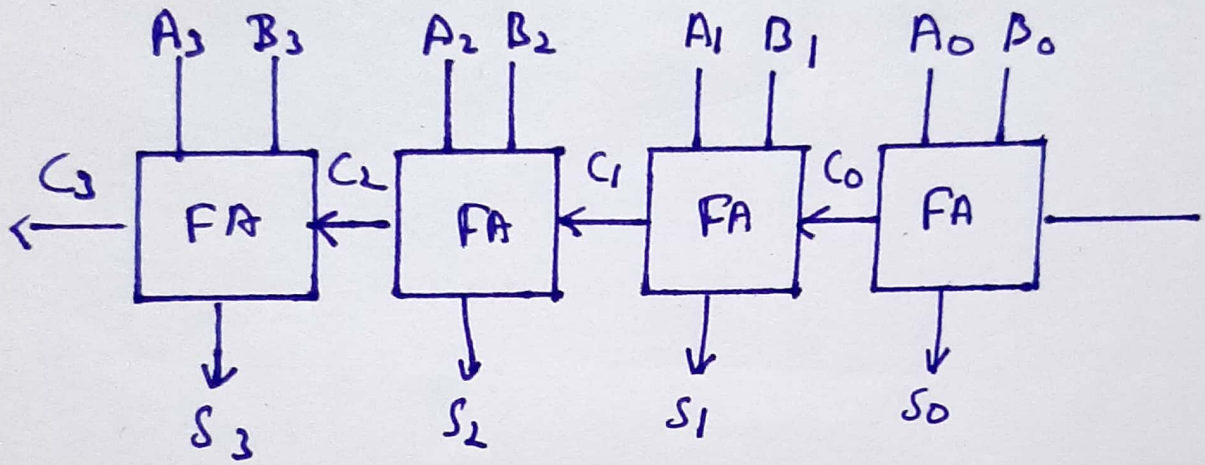
e) 4 bit Ripple Carry Adder



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