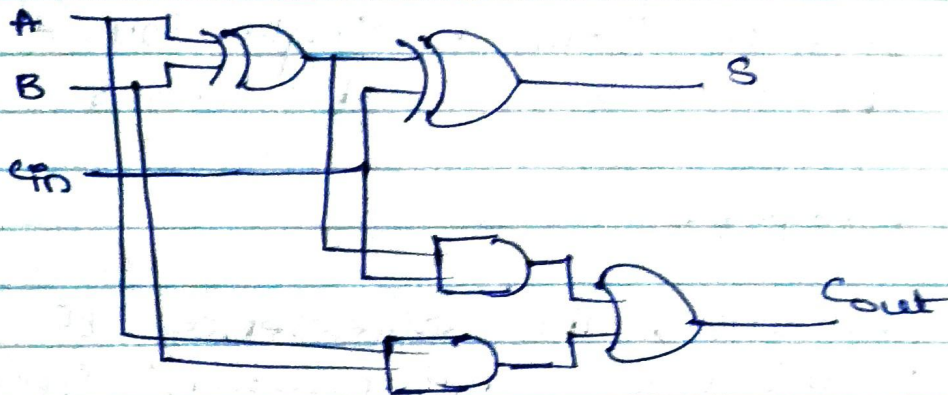


CARRY LOOK-AHEAD ADDER

* A carry look-ahead adder reduces the propagation delay by introducing more complex hardware. In this design, the ripple carry design is suitably transformed such that the carry logic over fixed groups of its of the adder is reduced to two-level logic.



A	B	C	C+1	Condition
0	0	0	0	No carry Generate
0	1	0	0	
0	1	1	1	No carry propagate
1	0	0	0	
1	0	1	1	Carry Generate
1	1	0	1	
1	1	1	1	