**Pass Logic**

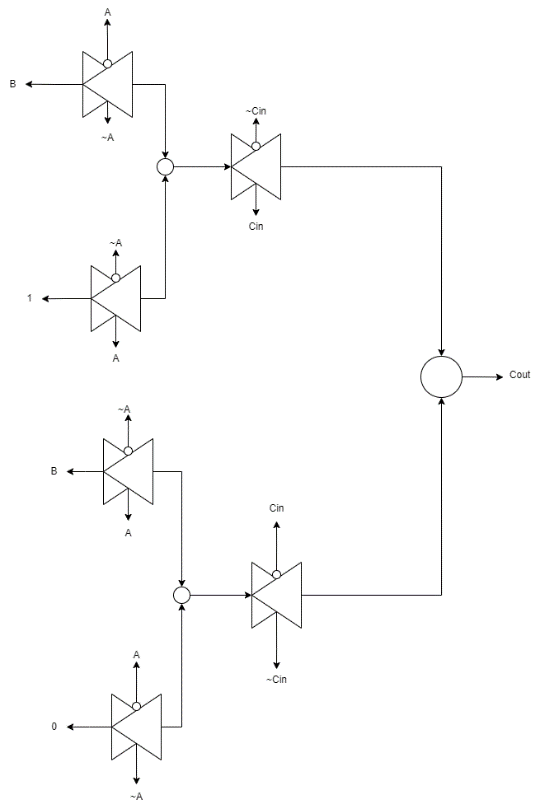
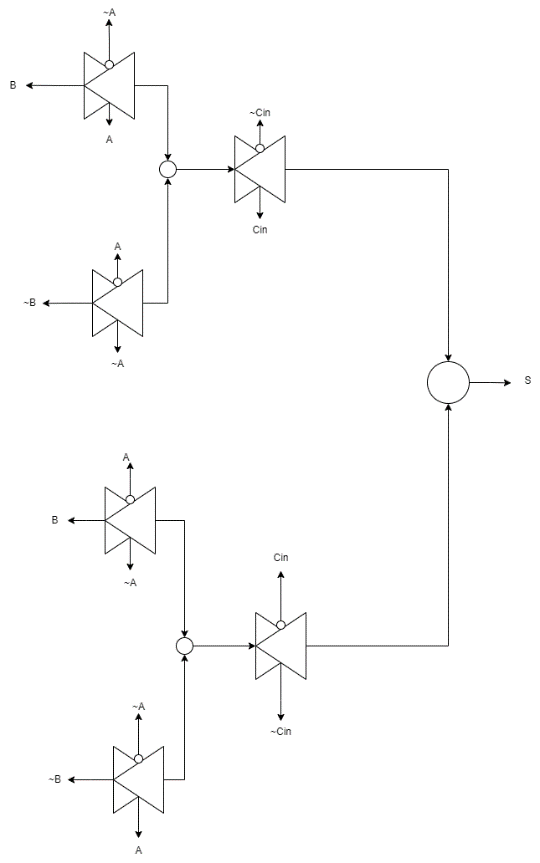
**Shannon Expansion**

S = Cin . (~A.~B + A.B ) + ~Cin . (~A.B + A.~B)

Cout = Cin . (A.1 + ~A.B ) + ~Cin.(A.B+~A.0)

**Transmission Gates S and Cout**

**S Cout**



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